



## **AGENDA**

### **REGULAR MEETING OF THE BOARD OF DIRECTORS LA PUENTE VALLEY COUNTY WATER DISTRICT 112 N. FIRST STREET, LA PUENTE, CALIFORNIA TUESDAY, NOVEMBER 13, 2018 AT 5:30 PM**

#### **1. CALL TO ORDER**

#### **2. PLEDGE OF ALLEGIANCE**

#### **3. ROLL CALL OF BOARD OF DIRECTORS**

President Rojas\_\_\_\_ Vice President Escalera\_\_\_\_ Director Aguirre\_\_\_\_  
Director Hastings\_\_\_\_ Director Hernandez\_\_\_\_

#### **4. PUBLIC COMMENT**

Anyone wishing to discuss items on the agenda or pertaining to the District may do so now. The Board may allow additional input during the meeting. A five-minute limit on remarks is requested.

#### **5. ADOPTION OF AGENDA**

Each item on the Agenda shall be deemed to include an appropriate motion, resolution or ordinance to take action on any item. Materials related to an item on this agenda submitted after distribution of the agenda packet are available for public review at the District office, located at the address listed above.

#### **6. APPROVAL OF CONSENT CALENDAR**

There will be no separate discussion of Consent Calendar items as they are considered to be routine by the Board of Directors and will be adopted by one motion. If a member of the Board, staff, or public requests discussion on a particular item, that item will be removed from the Consent Calendar and considered separately.

- A. Approval of Minutes of the Regular Meeting of the Board of Directors held on October 8, 2018.
- B. Approval of Minutes of the Special Meeting of the Board of Directors held on October 15, 2018.
- C. Approval of District Expenses for the Month of October 2018.
- D. Approval of City of Industry Waterworks System Expenses for the Month of October 2018.
- E. Receive and File the District's Water Sales Report for October 2018.
- F. Receive and File the City of Industry Waterworks System's Water Sales Report for October 2018.

- G. Receive and File the Water Production Report for October 2018.
- H. Receive and File the City of Industry Waterworks System First Quarter Report of 2018-19.

**7. FINANCIAL REPORTS**

- A. Summary of Cash and Investments for September 30, 2018.  
*Recommendation:* Receive and File.
- B. Statement of District's Revenues and Expenses as of September 30, 2018.  
*Recommendation: Receive and File.*
- C. Statement of City of Industry Waterworks System's Revenues and Expenses as of September 30, 2018.  
*Recommendation: Receive and File.*

**8. ACTION/DISCUSSION ITEMS**

- A. Consideration of Rescheduling the November 26, 2018, Regular Board of Directors' Meeting.  
*Recommendation:* Board Discretion.
- B. Discussion Regarding Schedule for Regular and Special Board Meetings for the Remainder of 2018.  
*Recommendation:* Board Discretion.
- C. Consideration of Los Angeles County Water Agency Mutual Assistance Agreement.  
*Recommendation:* Approve Agreement.
- D. Discussion on Water Quality at the District's Well Field.  
*Recommendation:* Board Discretion.

**9. ENGINEERING & COMPLIANCE MANAGER'S REPORT**

*Recommendation:* Receive and File Report.

**10. GENERAL MANAGER'S REPORT**

**11. OTHER ITEMS**

- A. Upcoming Events.
- B. Correspondence to the Board of Directors.

**12. ATTORNEY'S COMMENTS**

**13. BOARD MEMBER COMMENTS**

- A. Report on Events Attended.
- B. Other Comments.

**14. FUTURE AGENDA ITEMS**

## **15. ADJOURNMENT**

**POSTED:** Friday, November 9, 2018.

President William R. Rojas, Presiding.

Any qualified person with a disability may request a disability-related accommodation as needed to participate fully in this public meeting. In order to make such a request, please contact Mr. Greg B. Galindo, Board Secretary, at (626) 330-2126 in sufficient time prior to the meeting to make the necessary arrangements.

**Note:** Agenda materials are available for public inspection at the District office or visit the District's website at [www.lapuentewater.com](http://www.lapuentewater.com).



**MINUTES OF THE REGULAR MEETING OF  
THE BOARD OF DIRECTORS OF THE  
LA PUENTE VALLEY COUNTY WATER DISTRICT**

A regular meeting of the Board of Directors of the La Puente Valley County Water District was held on Monday, October 8, 2018, at 5:30 p.m. at the District office, 112 N. First St., La Puente, California.

**Meeting Called to Order:**

President Rojas called the meeting to order at 5:31 p.m.

**Pledge of Allegiance:**

President Rojas led the meeting in the Pledge of Allegiance.

**Directors Present:**

William Rojas, President; John Escalera, Vice President; Charles Aguirre, Director; David Hastings, Director and Henry Hernandez.

**Staff Present:**

Greg Galindo, General Manager; Gina Herrera, Office Manager; Roy Frausto, Engineering & Compliance Manager and Roland Trinh, District Counsel.

**Others Present:**

Mr. Cesar Barajas.

**Public Comment:**

No Public Comment.

**Adoption of Agenda:**

President Rojas asked for the approval of the Agenda.

Motion by Director Aguirre, seconded by Director Hernandez, that the agenda be adopted as presented.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**Consent Calendar:**

President Rojas asked for the approval of the Consent Calendar.

- A. Approval of the Minutes of the Regular Meeting of the Board of Directors held on September 10, 2018.
- B. Approval of District Expenses for the Month of September 2018.
- C. Approval of City of Industry Waterworks System Expenses for the Month of September 2018.
- D. Receive and File the District's Water Sales Report for September 2018.
- E. Receive and File the City of Industry Waterworks System's Water Sales Report for September 2018.
- F. Receive and File the Water Production Report for September 2018.

**G. Receive and File the Summary of Director's Expenses for the Third Quarter of 2018.**

- Mr. Galindo provided some additional information on item E. and F.

Motion by President Rojas, seconded by Director Hastings, to approve the Consent Calendar as presented.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**Financial Reports:****A. Summary of Cash and Investments as of August 31, 2018.**

- Mr. Galindo provided a summary of the balances in each account provided in the Summary of Cash and Investments. Mr. Galindo also pointed out, that the transfer of monies from the District's Raymond James account to its LAIF account that was approved by the Board a month ago, will show in next month's Summary of Cash and Investments.

Motion by Vice President Escalera, seconded by Director Hastings, to receive and file the Summary of Cash and Investments as of August 31, 2018, as presented.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**B. Statement of the District's Revenues and Expenses as of August 31, 2018.**

- Mrs. Herrera presented a revised summary of the Statement of Revenues and Expenses for the District and explained the budget to date balances for various accounts. She stated that the revision was to the revenue account for PVOU Labor.

Motion by President Rojas, seconded by Director Hernandez, to receive and file the revised Statement of the District's Revenues and Expenses as of August 31, 2018, as presented.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**C. Statement of the City of Industry Waterworks System's Revenues and Expenses as of August 31, 2018.**

- Mrs. Herrera provided a summary of the statement of revenues and expenses for the City of Industry Waterworks and explained the budget to date balances for various accounts.

Motion by President Rojas, seconded by Director Hastings, to receive and file the Statement of the City of Industry Waterworks System's Revenues and Expenses as of August 31, 2018, as presented.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**Action/Discussion Items:****A. Consideration of Donation of Water to the Industry Hills Charity Pro Rodeo.**

- Mr. Galindo reported that Mr. Ron McPeak, whom the District Board is familiar with requested that the Board consider a donation of 30 cases of water to help support the upcoming Industry Hills Charity Pro Rodeo. He stated that the water would be for the volunteers of the event.
- Mr. Galindo added that the purchase of the water would be less than \$200 and that Staff would deliver the water to the event location a couple days before the event.

After a brief discussion, motion by President Rojas, seconded by Director Hernandez, to donate 30 cases of water to the Industry Hills Charity Pro Rodeo.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**B. Consideration of Resolution No. 253 Amending Exhibit B to the District's Conflict of Interest Code.**

- Mr. Galindo reported that the District's Conflict of Interest Code is required to be reviewed and updated, if needed, biennially. He added that Resolution No. 253 being considered will amend the District's code to account for the change in positions as a result of the District's staff reorganization.
- Mr. Trinh provided a summary of the legal basis for the change and explanation of the disclosure categories. Mr. Trinh added that the change to the District's code is only to its Exhibit B.

Motion by Director Hastings, seconded by President Rojas, to approve Resolution No. 253, Amending Exhibit B to the District's Conflict of Interest Code.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**C. Consideration of Two-Year Extension to Contract with Trojan UV for UV System Maintenance and Performance Guarantee.**

- Mr. Galindo summarized the staff report provided to the Board in the Board Meeting Agenda packet. He stated that all the cost related to the Trojan UV system is a BPOU Sub-project expenses and are 100% reimbursable by the Cooperating Respondents (CRs). He provided some additional information regarding the CRs feedback to the proposed performance contract extension.
- Mr. Galindo stated that he had a slight change to his recommended Board action. He recommended the Board authorize him to further negotiate with Trojan to change from a two-year to a three-year extension with a slight revision in the language as requested by the CRs and if unsuccessful, to move forward with the two-year extension as currently proposed.
- There was discussion amongst staff and the members of the Board regarding the performance of the UV System over the years and the continued support for the system that Trojan will provide.

After further discussion, motion by Director Aguirre, seconded by President Rojas, to approve the two-year contract extension or the three-year negotiated contract extension with a slight revision in the language with Trojan UV.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**D. Consideration of Purchase of an Upgrade to the District's Customer Information and Billing Software System.**

- Mrs. Herrera summarized the staff report provided to Board in the Board Meeting Agenda Packet. She gave a brief overview of our current UB program and stressed the importance of implementing this conversion while our current program is still being supported. She also stated that this would be a shared expense with the Industry Public Utilities Water Operation based on the number of customers each company services.
- Mr. Galindo added, although this item was not a budgeted expense since the District will not be paying election costs this year, we do have the funds available to cover the cost of the upgrade.

After a brief discussion, motion by President Rojas, seconded by Director Hastings, to approve the purchase of the Upgrade to the District's Customer Information and Billing Software System from Continental Utility Billing Systems in the amount of \$35,682.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**E. Consideration of Single Pass Ion Exchange Resin Replacement services.**

- Mr. Frausto summarized the staff report included in the Board Agenda Packet for this item and added the PSR 2 Plus resin would provide an estimated 20% more throughput.

After a brief discussion, motion by Director Hastings, seconded by Vice President Escalera, to authorize the General Manager to enter into an agreement with Evoqua Water Technologies for Resin Replacement Services.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**F. Consideration of Rescheduling or Canceling the October 22, 2018, Regular Board of Director's Meeting.**

- Mr. Galindo reported that a majority of the Board will be traveling to the America Water Works Association conference on October 22, 2018, which conflicts with the second Regular Board Meeting in October. Mr. Galindo suggested canceling this meeting.

Motion by President Rojas, seconded by Director Aguirre, to cancel the October 22, 2018, Regular Board of Director's Meeting.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**G. Public Water Agencies' 2018 Legislative Report.**

- Mr. Galindo reported that each year the attorney for Public Water Agencies Group's (PWAG) provides a summary of the legislation (included in the Board agenda packet), which they believe, may have an impact on the members of PWAG.
- Mr. Galindo requested that if the members of the Board have any questions at a later time on any of the legislation, to please contact him.

Discussion only, no action required.

**Engineering & Compliance Manager's Report**

- Mr. Frausto provided information on several items included in his monthly report.
- Mr. Frausto provided an update on the PVOU IZ project and Mr. Galindo added that staff and District council are currently working on the Watermaster Agreement.
- Mr. Frausto advised the Banbridge Pump Station Retrofit Project is near completion and presented a few pictures of the progress work.
- Mr. Frausto provided an updated Nitrate water quality table, to discuss current Nitrate levels. Mr. Galindo added that staff will continue to work on procuring a preliminary design report and further added that staff would be evaluating different Nitrate treatment technologies.

After further discussion, motion by President Rojas, seconded by Director Hastings, to receive and file the Engineering and Compliance Manager's Report as presented.

Motion was approved by the following vote:

Ayes: Rojas, Escalera, Aguirre, Hastings and Hernandez.

Nays: None.

**General Manager's Report:**

- Mr. Galindo reported that the field staff has begun wearing their new uniforms, which are provided by a uniform service company.
- Mr. Galindo presented the recently completed District video on its water treatment process and the new PVOU IZ treatment plant. He reported that the new video has been posted to the District's website.
- Mr. Galindo also informed the Board that on October 15, 2018, at 5:30 p.m. the District will hold a Special Meeting of the Board of Directors that will include a public hearing on the proposed water rate adjustments. He added that the Board will consider the Water Rate Adjustments along with an increase to the Water System Connection Fee and a revised Rules and Regulations for Water Service.

**Information Items:****A. Upcoming Events.**

- Mrs. Herrera provided an update on upcoming events and verified with the Directors who will be planning on attending the next few events.
- She gave the Board information on the upcoming Christmas party.
- She also informed the Board that it was Open Enrollment period for Health Benefits

**B. Correspondence to the Board of Directors.**

- Included in the Board Meeting Agenda Packet.

**Attorney Comments:**

Mr. Trinh had no comments.

**Board Member Comments:****A. Report on events attended.**

- President Rojas reported that he attended 3 events; SCWUA Vendors Fair on September 13<sup>th</sup>, San Gabriel Valley Water Forum on September 18<sup>th</sup>, and CSDA 2018 Annual Conference on September 24-27<sup>th</sup>.
- Vice President Escalera reported that he attended 3 events; SCWUA Vendors Fair on September 13<sup>th</sup>, San Gabriel Valley Water Forum on September 18<sup>th</sup>, and CSDA 2018 Annual Conference on September 24-27<sup>th</sup>.
- Director Hernandez reported that he attended 1 event; CSDA 2018 Annual Conference on September 24-27<sup>th</sup>.

**B. Other comments.**

- Vice President Escalera requested that the Board adjourn the meeting in memory of Richard H. Nicholson who for over 40 years was an integral part of San Gabriel Valley Water Company, which serves a portion of La Puente.

**Future Agenda Items:**

No Future Agenda Items.

**Adjournment:**

With no further business or comment, the meeting was adjourned in memory of Richard H. Nicholson at 6:41 p.m.

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William R. Rojas, President

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Greg B. Galindo, Secretary





**MINUTES OF THE SPECIAL MEETING OF  
THE BOARD OF DIRECTORS OF THE  
LA PUENTE VALLEY COUNTY WATER DISTRICT**

A Special Meeting of the Board of Directors of the La Puente Valley County Water District was held on Monday, October 15, 2018, at 5:30 p.m. at the District office, 112 N. First St., La Puente, California.

**Meeting called to order:**

President Rojas called the meeting to order at 5:30 pm.

**Pledge of Allegiance**

President Rojas led the meeting in the Pledge of Allegiance.

**Directors present:**

William Rojas, President; John Escalera, Vice President; Charles Aguirre, Director; David Hastings, Director and Henry Hernandez, Director

**Staff present:**

Greg Galindo, General Manager; Gina Herrera, Office Manager; Roy Frausto, Engineering and Compliance Manager and Roland Trinh, District Counsel.

**Others Present:**

Mr. John Marinakis and Mrs. Yvonne Garcia were present. Also present were Dennis Azevedo, Bob Noonan and Joseph Velasco from Orchard Dale Water District and Steve Gagnon from Raftelis Financial Consultants.

**Public Comment:**

Mr. Joseph Velasco introduced himself as the Board President of Orchard Dale Water District in Whittier. He also introduced two other members of the Orchard Dale Board of Directors that were in attendance. Mr. Velasco stated that they were in attendance to witness for the Public Hearing on water rate adjustments to see what they can learn to assist them in their future efforts. He added that our Board is invited to their District and that they are around to support our District.

**Adoption of Agenda:**

President Hastings asked for the Approval of the Agenda.

Motion by Director Aguirre, seconded by Director Hernandez, that the agenda be adopted as presented.

Motion was approved by the following vote:

Ayes: Hastings, Rojas, Aguirre, Escalera and Hernandez.

Nays: None.

**Public Hearing on Proposed Increase to Water Use Rates and Service Charges:**

President Rojas opened the public hearing at 5:33 p.m.

- Mr. Galindo requested that the presentations regarding the water rate adjustments be presented first and then the Board can open it up for public comments.
- Mr. Galindo first began by providing a video presentation on the District and the cost of water in the Main San Gabriel Basin. He stated that the video shown can also be found on the District's website.
- Mr. Galindo then introduced Mr. Steve Gagnon from Raftelis Financial Consultants who is the Project Manager that oversaw the completion of the District's Water Rate Study.
- Mr. Gagnon provided a presentation (attached) that explained the process followed in the preparation of the water rate study. His presentation also summarized the findings of the Water Rate Study and the recommended water rate adjustments.
- At the completion of Mr. Gagnon's presentation, there were a couple of clarifications requested from Board and Staff.
- Mr. Galindo then provided a supplemental presentation (attached) on the number and type of customers within the District. Mr. Galindo also provided the results of a survey of the rates of 13 neighboring water purveyors and how they compare with the proposed District rates for 2018-2019.

After the presentations, President Rojas opened it for Public Comment at 6:10 p.m.

- Mrs. Yvonne Garcia thanked the Board for their efforts on the Water Rate Study and she stated that she has confidence that the Board has considered water rate affordability.
- Mr. John Marinakis asked about the charge for water use and the higher rate for service where he resides. Mr. Galindo provided a response to Mr. Marinakis explaining the various pumping zones of the District and why the rates are higher to provide water to pumping zones with different elevations.
- Mr. Marinakis asked about how conservation is impacting the water rates. In response, Mr. Galindo provided additional information related to water cost in the Main San Gabriel Basin and how lower water use in the District's water system reduces the purchases of expensive import water.
- Mr. Marinakis also asked if the San Gabriel Valley received a great deal of rain in one year would that impact the cost of water. Mr. Galindo responded by explaining how that would have an impact on decisions that the Main San Gabriel Basin Watermaster makes regarding setting the safe yield and rates for pumping assessments. He added that if there was a substantial decrease in the cost of pumping water, then what was projected in the Water Rate Study the Board can then consider reducing the water use rates.

There were no other public comments and President Rojas closed the Public Hearing at 6:04 p.m.

#### **Action/Discussion Items:**

- A. Consideration of Resolution No. 254, Adopting New Water Use Rates and Service Charges.
  - Mr. Galindo stated that all the of the information provided to the Board of Directors in their Board meeting agenda packet are also posted online for the public about 72 hours before any Board meeting.
  - Mr. Galindo stated that the District has met all the requirements of Proposition 218, which includes completing a Water Rate Study and Cost of Service Analysis and mailing a notice of the proposed water rate adjustments to all customers and property owners within the District's service area 45 days prior to the public hearing. The notice mailed, provided the right to protest the water rate increases.
  - Mr. Galindo stated that no protest letters have been received. He summarized the public outreach efforts by the District related to proposed water rate adjustments.
  - Mr. Galindo added that Resolution No. 254 that is being considered, does include the final Water Rate Study and Proposition 218 Notice as exhibits to the Resolution. Mr. Galindo recommended and requested the Board adopt Resolution No. 254.

Motion by President Rojas, seconded by Vice President Escalera, to Adopt Resolution No. 254 Approving New Water Use Rates and Service Charges.

Motion was approved by the following vote:

Ayes: Hastings, Rojas, Aguirre, Escalera and Hernandez.

Nays: None.

B. Consideration of Resolution No. 255, Adopting a New Capacity Charge for Water System Connection.

- Mr. Galindo provided an overview of the need to adopt a new capacity charge for a water system connection. He added that Raftelis Financial Consultants completed a study on the appropriateness of the proposed new charge and the report is an exhibit to the resolution.
- Mr. Gagnon provided a presentation (attached) that summarized how the new capacity charge for water system connection was calculated.
- Mr. Galindo provided some additional information on all the charges related to the installation of a new domestic water supply connection and that the capacity charge does not apply to new fire service connections.
- Mr. Galindo recommended and requested the Board adopt Resolution No. 255.

After some discussion, motion by President Rojas, seconded by Director Aguirre, to Adopt Resolution No. 255. Approving a New Charge for Water System Connection.

Motion was approved by the following vote:

Ayes: Hastings, Rojas, Aguirre, Escalera and Hernandez.

Nays: None.

C. Consideration of Rescheduling the November 12, 2018, Regular Meeting of the Board of Directors.

- Mr. Galindo stated that the November 12, 2018, Regular Board Meeting lands on Veteran's Day and he requested that the meeting be moved to November 13, 2018.

Motion by President Rojas, seconded by Director Hernandez, to reschedule the November 12, 2018, Regular Board Meeting to 5:30 p.m. on November 13, 2018.

Motion was approved by the following vote:

Ayes: Hastings, Rojas, Aguirre, Escalera and Hernandez.

Nays: None.

**General Manager's Report:**

Mr. Galindo thanked Mr. Gagnon and his firm for all of their work.

**Attorney's Comments:**

Mr. Trinh had no comments.

**Board Member Comments:**

- Director Aguirre thanked Mrs. Garcia for attending the meeting and thanked Mr. Marinakis for his questions on how conservation has impacted the water rates.
- Vice President John Escalera thanked Mr. Gagnon from Raftelis for the presentation and their work on the water rate study.
- Director Aguirre asked Mr. Galindo, for the benefit of those attending, what the cost of import water was 10 years ago. Mr. Galindo responded that it has gone up from \$250 an acre-foot to \$798 an acre-foot.
- President Rojas also thanked Mr. Gagnon for his presentation and staff for their efforts on the water rate adjustments.

**Adjournment:**

There is no further business or comment, the meeting was adjourned at 6:36 p.m.

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William R. Rojas, President

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Greg B. Galindo, Secretary

## La Puente Water District October 2018 Disbursements

Check #	Payee	Amount	Description
6115	Rowland Water District	\$ 350.00	Staff Safety Training
6116	Doty Bros Equipment Co	\$ 13,086.75	Dell Valle Project Expense
6117	William R Rojas	\$ 565.91	CSDA Conference Expenses
6118	John P Escalera	\$ 628.16	CSDA Conference Expenses
6119	Henry P Hernandez	\$ 742.51	CSDA Conference Expenses
6120	Miguel A Molina	\$ 100.45	TriState Training Expenses
6121	ACWA/JPIA	\$ 6,393.62	Workman's Compensation Insurance
6122	ACWA/JPIA	\$ 24,358.71	Auto & General Liability Insurance
6123	Answering Service Care	\$ 125.46	Answering Service
6124	CCSInteractive	\$ 54.40	Monthly Website Hosting
6125	Chevron	\$ 3,244.77	Truck Fuels
6126	Coverall North America Inc	\$ 255.00	Cleaning Service
6127	Eurofins Eaton Analytical Inc	\$ 440.00	Water Sampling
6128	Ferguson Waterworks	\$ 1,790.33	Meter Expense
6129	Highroad IT	\$ 457.00	Technical Support
6130	Industry Public Utilites	\$ 34,899.21	Web Payments September 2018
6131	Lagerlof, Senecal, Gosney & Kruse	\$ 1,219.34	Attorney Fee's
6132	O'Reilly Auto Parts	\$ 147.75	Truck Maintenance
6133	Peck Road Gravel	\$ 120.00	Asphalt & Concrete Disposal
6134	SC Edison	\$ 8,067.69	Power Expense
6135	Time Warner Cable	\$ 279.95	Telephone Service
6136	Underground Service Alert	\$ 77.60	Line Notifications
6137	Valley Vista Services	\$ 314.72	Trash Service
6138	Weck Laboratories Inc	\$ 25.50	Water Sampling
6139	Blaine Tech Services Inc	\$ 1,151.00	Water Sampling
6140	Eurofins Eaton Analytical Inc	\$ 130.00	Water Sampling
6141	Evoqua	\$ 89,200.67	Ion Exchange Resin Changeout
6142	Grainger Inc	\$ 391.32	Field Supplies
6143	Hach Company	\$ 1,661.88	Field Supplies
6144	McMaster-Carr Supply Co	\$ 149.76	Field Supplies
6145	Merritt's Hardware	\$ 425.25	Field Supplies
6146	Northstar Chemical	\$ 5,170.37	Chemical Expenses
6147	Sterling Water Technologies	\$ 1,810.10	Chemical Expenses
6148	Trojan UV	\$ 24,880.00	Quarterly Service Contract
6149	Weck Laboratories Inc	\$ 3,204.00	Water Sampling
6150	Weck Laboratories Inc	\$ 1,054.50	Water Sampling
6151	Time Warner Cable	\$ 567.15	Telephone Service
6152	Waste Management of SG Valley	\$ 198.37	Trash Service
6153	Pall Filter Specialists Inc	\$ 2,035.55	Filters
6154	ACWA	\$ 13,490.00	Annual Agency Dues
6155	Bank of America-Visa	\$ 1,971.77	Conference & Administrative Expense
6156	Citi Cards	\$ 88.88	Administrative Expenses
6157	Ed Butts Ford	\$ 182.00	Truck Maintenance

## La Puente Water District October 2018 Disbursements - continued

Check #	Payee	Amount	Description
6158	Eurofins Eaton Analytical Inc	\$ 280.00	Water Sampling
6159	Ferguson Waterworks	\$ 6,139.43	Meter Expense
6160	G. M. Sager Construction	\$ 4,200.00	Patchworkd
6161	Grainger Inc	\$ 46.01	Field Supplies
6162	Highroad IT	\$ 538.13	Computer Expense
6163	InfoSend	\$ 735.04	Billing Expense
6164	Jack Henry & Associates	\$ 40.00	Web E-Check Fee's
6165	L.A. County Tax Collector	\$ 5,071.44	Property Taxes
6167	MJM Communications & Fire	\$ 720.00	Security Monitoring
6168	S & J Supply Co Inc	\$ 6,790.26	Field Supplies - Inventory
6169	San Gabriel Valley Water Company	\$ 200.32	Water Service @ Treatment Plant
6170	SC Edison	\$ 209.00	Power Expense
6171	Time Warner Cable	\$ 301.08	Telephone Service
6172	USA BlueBook	\$ 443.79	Field Supplies
6173	Weck Laboratories Inc	\$ 1,203.50	Water Sampling
6174	Western Water Works	\$ 3,226.07	Field Supplies - Inventory
6175	So Cal Industries	\$ 141.00	Restroom Service @ Treatment Plant
6176	McMaster-Carr Supply Co	\$ 222.36	Banbridge Pump Station Project
6177	So Cal Water Utilities Association	\$ 210.00	Seminar Expense
6178	Rowland Water District	\$ 350.00	Staff Safety Training
6179	ACWA/JPIA	\$ 31,327.59	Health Benefits
6180	B&W Communications Inc	\$ 847.63	Truck Radios Expense
6181	Cell Business Equipment	\$ 51.29	Office Expense
6182	Eurofins Eaton Analytical Inc	\$ 80.00	Water Sampling
6183	Ferguson Enterprises Inc #1350	\$ 41.93	Field Supplies
6184	Industry Tire Service Inc	\$ 25.00	Truck Maintenance
6185	InfoSend	\$ 154.50	Billing Expense
6186	Lincoln National Life Insurance Company	\$ 643.89	Disability Insurance
6187	MetLife	\$ 298.11	Life Insurance
6188	Premier Access Insurance Co	\$ 3,055.16	Dental Insurance
6189	Raftelis Financial Consultants	\$ 1,680.00	Water Rate Study
6190	Resource Building Materials	\$ 39.95	Field Supplies
6191	San Gabriel Basin WQA	\$ 5,652.00	Pumping Right Assessments
6192	Staples	\$ 57.02	Office Supplies
6193	Verizon Wireless	\$ 419.27	Cellular Service
6194	Vulcan Materials Company	\$ 855.53	Field Supplies - Asphalt
6195	Weck Laboratories Inc	\$ 141.00	Water Sampling
6196	Wesco Security Systems Inc	\$ 282.00	Security Monitoring
6197	SC Edison	\$ 23,551.60	Power Expense
6198	John P Escalera	\$ 766.73	AWWA Conference Expenses
6199	Charles Aguirre	\$ 1,051.68	AWWA Conference Expenses
6200	William R Rojas	\$ 664.30	AWWA Conference Expenses
6201	Henry P Hernandez	\$ 761.56	AWWA Conference Expenses

## La Puente Water District October 2018 Disbursements - continued

<b>Check #</b>	<b>Payee</b>	<b>Amount</b>	<b>Description</b>
6202	Discount Tree Services	\$ 2,000.00	Tree Removal
6203	Petty Cash	\$ 65.04	Office Expense
Online	Home Depot	\$ 1,647.37	Field Supplies
Autodeduct	Bluefin Payment Systems	\$ 943.31	Web Merchant Fee's
Autodeduct	Wells Fargo	\$ 305.30	Bank Fee's
Autodeduct	Wells Fargo	\$ 160.73	Merchant Fee's
Autodeduct	First Data Global Leasing	\$ 43.80	Credit Card Machine Lease
Online	Lincoln Financial Group	\$ 3,894.00	Deferred Comp
Online	CalPERS	\$ 13,175.36	Retirement Program
Online	Employment Development Dept	\$ 4,381.04	California State & Unemployment Taxes
Online	United States Treasury	\$ 24,902.66	Federal, Social Security & Medicare Taxes
	<b>Total Payables</b>	<b><u>\$ 400,541.18</u></b>	

**La Puente Valley County Water District**  
**Payroll Summary**  
October 2018

	<b>October 2018</b>
Employee Wages, Taxes and Adjustments	
Gross Pay	
Total Gross Pay	108,170.69
Deductions from Gross Pay	
457b Plan Employee	-3,894.00
Adjusted Gross Pay	103,092.60
Taxes Withheld	
Federal Withholding	-8,849.00
Medicare Employee	-1,571.35
Social Security Employee	-6,455.48
CA - Withholding	-4,370.36
Medicare Employee Addl Tax	0.00
Total Taxes Withheld	-21,246.19
	<b>Net Pay</b> <b>81,846.41</b>
Employer Taxes and Contributions	
Total Employer Taxes and Contributions	8,235.51



**La Puente Water District October 2018 Disbursements**

<b>Total Vendor Payables</b>	<b><u>\$ 400,541.18</u></b>
<b>Total Payroll</b>	<b><u>\$ 81,846.41</u></b>
<b>Total October 2018 Disbursements</b>	<b><u>\$ 482,387.59</u></b>

**Invoice No. 4-2018-10**

November 1, 2018  
 BPOU Project Committee Members



RE: BPOU O & M Expense Reimbursement Summary

The following cost breakdown represents O & M expenses incurred by the LPVCWD for the month of October 2018.

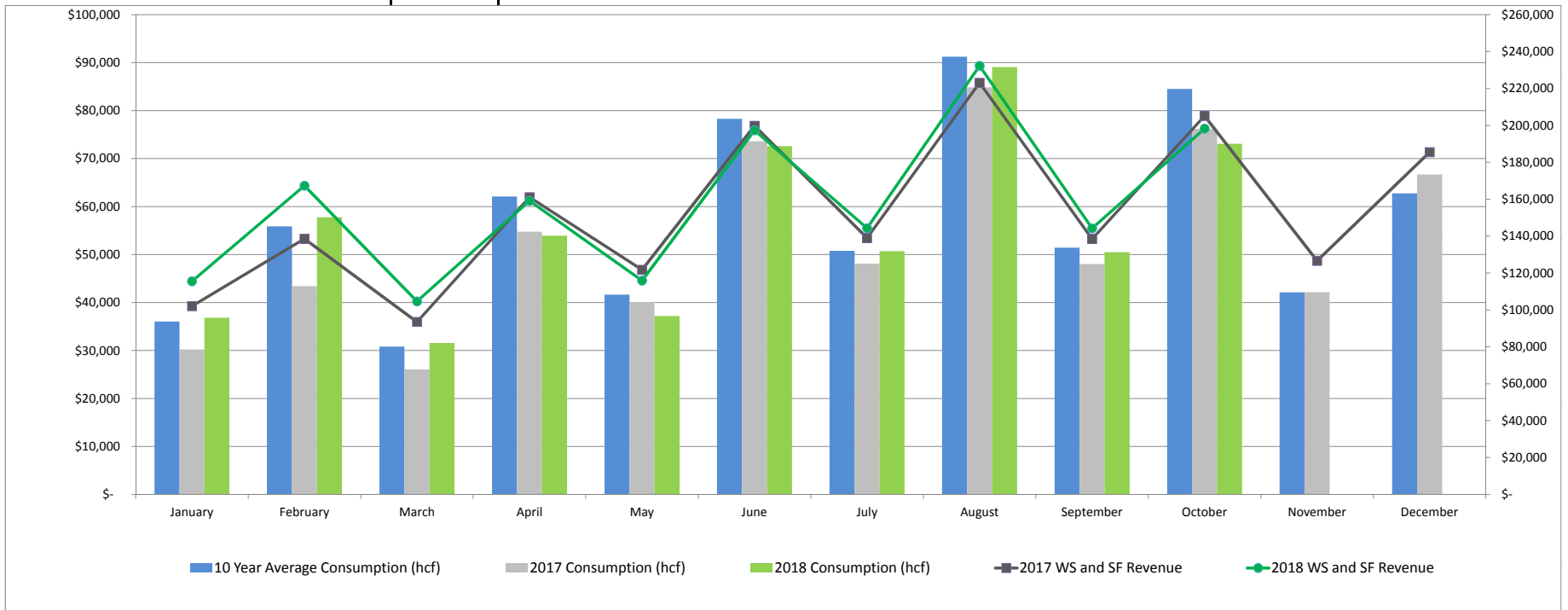
<u>BPOU Acct No.</u>	<u>Description</u>	<u>Invoice No.</u>	<u>Vendor</u>	<u>Amount</u>	<u>Subtotal</u>		
LP.02.01.01.00	Power	2-15-629-6188	SC Edison	\$ 12,761.46			
		2-03-187-2179	SC Edison	\$ 10,790.14	\$ 23,551.60		
LP.02.01.02.00	Labor Costs	Oct-18	LPVCWD	\$ 34,596.72	\$ 34,596.72		
LP.02.01.05.00	Transportation	Oct-18	LPVCWD - 2066 miles @ .545	\$ 1,125.97	\$ 1,125.97		
LP .02.01.07.00	Water Testing	L0415710	Eurofins	\$ 40.00			
		L0416552	Eurofins	\$ 80.00			
		L0417659	Eurofins	\$ 80.00			
		L0419254	Eurofins	\$ 80.00			
		L0420327	Eurofins	\$ 80.00			
		W8J0005	Weck Labs	\$ 204.00			
		W8J0006	Weck Labs	\$ 210.75			
		W8J0008	Weck Labs	\$ 204.00			
		W8J0027	Weck Labs	\$ 204.00			
		W8J0128	Weck Labs	\$ 36.00			
		W8J0129	Weck Labs	\$ 298.00			
		W8J0130	Weck Labs	\$ 298.00			
		W8J0131	Weck Labs	\$ 200.00			
		W8J0371	Weck Labs	\$ 210.75			
		W8J0377	Weck Labs	\$ 56.00			
		W8J0699	Weck Labs	\$ 200.00			
		W8J0723	Weck Labs	\$ 204.00			
		W8J1036	Weck Labs	\$ 562.00			
		W8J1037	Weck Labs	\$ 56.00			
		W8J1040	Weck Labs	\$ 55.50			
		W8J1103	Weck Labs	\$ 210.75			
		W8J1257	Weck Labs	\$ 204.00			
		W8J1406	Weck Labs	\$ 18.50			
		W8J1407	Weck Labs	\$ 56.00			
		W8J1504	Weck Labs	\$ 200.00			
		W8J1653	Weck Labs	\$ 298.00			
		W8J1819	Weck Labs	\$ 315.75			
		W8J1831	Weck Labs	\$ 315.75			
		W8J1832	Weck Labs	\$ 263.25			
		W8J1892	Weck Labs	\$ 56.00			
		W8J1999	Weck Labs	\$ 204.00			
		W8J2136	Weck Labs	\$ 56.00			
		W8J2232	Weck Labs	\$ 200.00	\$ 5,757.00		
		LP.02.01.10.00	Operations Monitoring	9462; 10/18	Time Warner Cable	\$ 267.15	
				2906; 10/18	Time Warner Cable	\$ 300.00	
				9816568259	Verizon	\$ 76.02	\$ 643.17
		<u>LP.02.01.12.00 Materials/Supplies</u>					
		LP.02.01.12.05	Hydrogen Peroxide	133043	Northstar Chemical	\$ 2,724.92	\$ 2,724.92
		LP.02.01.12.06	Sodium Hypochlorite	132562	Northstar	\$ 1,078.29	
				132673	Northstar	\$ 2,045.54	
				134104	Northstar	\$ 2,036.78	\$ 5,160.61
		LP.02.01.12.08	Ortho-Polyphosphate	8786	Sterling Water Technologies	\$ 1,810.10	\$ 1,810.10
		LP.02.01.12.15	Other Expendables	9943518275	Grainger	\$ 64.17	
9943696485	Grainger			\$ 38.19			
9946523330	Grainger			\$ 22.12			
11180147	HACH			\$ 573.77			
4013635	Home Depot			\$ 63.64			
5074414	Home Depot			\$ 104.71			
6071809	Home Depot			\$ 51.37			
6745	Home Depot			\$ 10.54			
107972	Merritt's			\$ 24.67			
108128	Merritt's			\$ 121.22			
108131	Merritt's			\$ 21.83			
108228	Merritt's			\$ 97.36			
108259	Merritt's			\$ 2.14			
108360	Merritt's			\$ 50.21			
108361	Merritt's			\$ 162.15			
108405	Merritt's			\$ 10.95			
108477	Merritt's	\$ 14.22	\$ 1,433.26				
LP.02.01.12.17	Sulfuric Acid	133979	Northstar	\$ 1,929.20	\$ 1,929.20		
LP.02.01.15.00	Contractor Labor	983107	Locus Technologies	\$ 1,512.00			
		SLS/10276-489/042	Trojan UV	\$ 45,319.05	\$ 46,831.05		
LP.02.01.17.00	Insurance	10/1/2018	JPIA	\$ 4,742.33	\$ 4,742.33		
LP.02.01.80.00	Other O & M	41413	Dragon Fire Protection	\$ 118.85			
		20182	Highroad IT	\$ 134.00			
		19325	MJM Communications	\$ 223.20			
		30758	Platinum Consulting Group	\$ 230.52			
		348796	So Cal Industries	\$ 141.00			
		5-13845-75006	Waste Management	\$ 198.37	\$ 1,045.94		
		Total Expenditures				\$ 131,351.87	
		District Pumping Cost Deduction				\$ 14,545.34	
		<b>Total O &amp; M</b>				<b>\$ 116,806.53</b>	
Total Capital Cost Reimbursable				\$ -			
<b>Total Cost Reimbursable</b>				<b>\$ 116,806.53</b>			

## Industry Public Utilities October 2018 Disbursements

Check #	Payee	Amount	Description
3245	ACWA/JPIA	\$ 1,598.40	Workman's Compensation Insurance
3246	ACWA/JPIA	\$ 15,094.99	Auto & General Liability Insurance
3247	Answering Service Care	\$ 125.46	Answering Service
3248	CCSInteractive	\$ 13.60	Monthly Website Hosting
3249	Ferguson Enterprises Inc #1350	\$ 22.43	Field Supplies
3250	Ferguson Waterworks	\$ 595.04	Developer Expense
3251	Highroad IT	\$ 323.00	Technical Support
3252	La Puente Valley County Water District	\$ 50,881.57	Labor Costs September 2018
3253	Merritt's Hardware	\$ 215.71	Field Supplies
3254	Peck Road Gravel	\$ 240.00	Asphalt & Concrete Disposal
3255	SC Edison	\$ 2,734.01	Power Expense
3256	Time Warner Cable	\$ 51.52	Telephone Service
3257	Time Warner Cable	\$ 279.94	Telephone Service
3258	Underground Service Alert	\$ 77.60	Line Notifications
3259	Citi Cards	\$ 50.00	Office Expense
3260	Grainger Inc	\$ 46.00	Field Supplies
3261	Highroad IT	\$ 538.12	Computer Expense
3262	InfoSend	\$ 722.33	Billing Expense
3263	Jack Henry & Associates	\$ 50.00	Web E-Check Fee's
3264	La Puente Valley County Water District	\$ 624.30	Web CC & Bank Fee's Reimbursement
3265	MJM Communications & Fire	\$ 180.00	Security Monitoring
3266	Sunbelt Rentals	\$ 225.50	Equipment Rental
3267	USA BlueBook	\$ 443.78	Field Supplies
3268	Weck Laboratories Inc	\$ 230.00	Water Sampling
3269	Mario Arroyo Jr	\$ 194.64	Customer Overpayment Refund
3270	Frank Rosas	\$ 9.60	Customer Overpayment Refund
3271	Cell Business Equipment	\$ 51.29	Office Expense
3272	Industry Public Utility Commission	\$ 1,635.77	Industry Hills Power Expense
3273	InfoSend	\$ 1.50	Billing Expense
3274	San Gabriel Basin WQA	\$ 5,515.00	Pumping Right Assessments
3275	San Gabriel Valley Water Company	\$ 2,118.77	Purchased Water - Salt Lake
3276	SC Edison	\$ 8,069.82	Power Expense
3277	SoCal Gas	\$ 15.78	Gas Expense
3278	Sunbelt Rentals	\$ 241.92	Equipment Rental
3279	Verizon Wireless	\$ 419.26	Cellular Service
3280	Vulcan Materials Company	\$ 855.53	Field Supplies - Asphalt
3281	Weck Laboratories Inc	\$ 122.50	Water Sampling
3282	Western Water Works	\$ 3,919.55	Developer Expense
3283	Petty Cash	\$ 10.80	Office Expense
Online	Home Depot	\$ 70.18	Field Supplies
Online	County of LA Dept of Public Works	\$ 1,070.00	Permit Fee's
Autodeduct	Wells Fargo Merchant Fee's	\$ 81.97	Merchant Fee's
Autodeduct	First Data Global Leasing	\$ 43.80	Credit Card Machine Lease
<b>Total October 2018 Disbursements</b>		<b>\$ 99,810.98</b>	

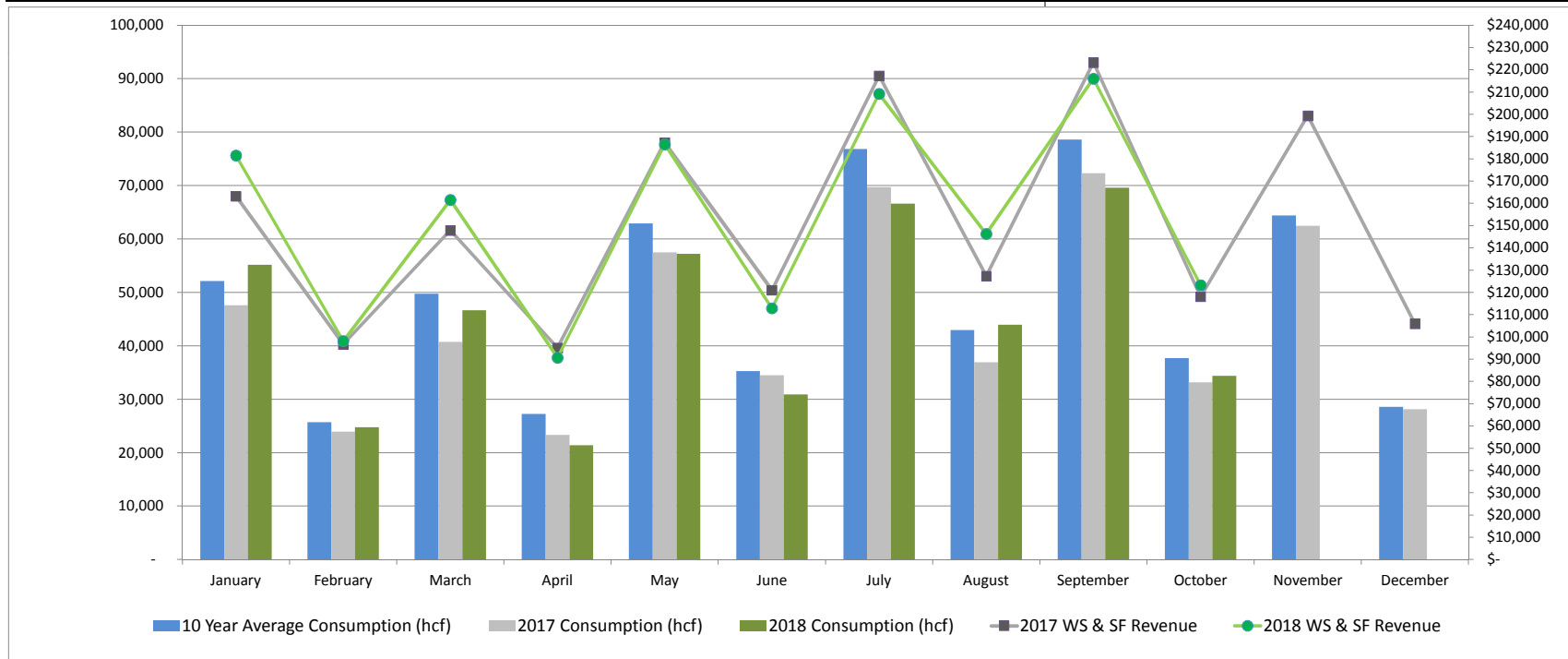
WATER SALES REPORT LPVCWD 2018

LPVCWD	January	February	March	April	May	June	July	August	September	October	November	December	YTD
No. of Customers	1,187	1,218	1,188	1,217	1,187	1,221	1,203	1,222	1,204	1,221	-	-	12,068
2018 Consumption (hcf)	36,839	57,769	31,582	53,940	37,166	72,607	50,689	89,071	50,507	73,082	-	-	553,252
2017 Consumption (hcf)	30,207	43,404	26,046	54,765	40,068	73,619	48,095	84,860	48,029	76,182	42,166	66,673	634,114
10 Year Average Consumption (hcf)	\$ 36,050	\$ 55,866	\$ 30,802	\$ 62,113	\$ 41,650	\$ 78,283	\$ 50,788	\$ 91,226	\$ 51,439	\$ 84,521	\$ 42,118	\$ 62,759	\$ 687,613
2018 Water Sales	\$ 69,913	\$ 112,965	\$ 58,990	\$ 104,919	\$ 70,362	\$ 143,162	\$ 98,276	\$ 177,901	\$ 97,825	\$ 144,055	\$ -	\$ -	\$ 1,078,368
2017 Water Sales	\$ 56,237	\$ 83,965	\$ 47,979	\$ 106,562	\$ 76,176	\$ 145,325	\$ 93,326	\$ 168,492	\$ 92,909	\$ 150,737	\$ 80,914	\$ 130,894	\$ 1,233,515
2018 Service Fees	\$ 45,632	\$ 54,334	\$ 45,639	\$ 54,197	\$ 45,559	\$ 54,170	\$ 46,022	\$ 54,374	\$ 46,411	\$ 54,214	\$ -	\$ -	\$ 500,553
2017 Service Fees	\$ 45,815	\$ 54,553	\$ 45,542	\$ 54,533	\$ 45,577	\$ 54,454	\$ 45,633	\$ 54,565	\$ 45,587	\$ 54,372	\$ 45,684	\$ 54,581	\$ 600,896
2018 Hyd Fees	\$ 950	\$ 950	\$ 950	\$ 950	\$ 950	\$ 950	\$ 950	\$ 950	\$ 950	\$ 950	\$ -	\$ -	\$ 9,500
2018 DC Fees	\$ 380	\$ 7,014	\$ 380	\$ 7,011	\$ 380	\$ 7,185	\$ 380	\$ 7,185	\$ 380	\$ 7,249	\$ -	\$ -	\$ 37,544
2018 System Revenue	\$ 116,875	\$ 175,262	\$ 105,960	\$ 167,077	\$ 117,250	\$ 205,467	\$ 145,629	\$ 240,411	\$ 145,566	\$ 206,467	\$ -	\$ -	\$ 1,625,965



**WATER SALES REPORT CIWS 2018**

<u>CIWS</u>	January	February	March	April	May	June	July	August	September	October	November	December	YTD
<b>No. of Customers</b>	961	847	963	848	965	850	959	891	962	<b>892</b>	-	-	<b>9,138</b>
<b>2018 Consumption (hcf)</b>	55,160	24,734	46,635	21,410	57,209	30,877	66,614	43,940	69,576	<b>34,354</b>	-	-	<b>450,509</b>
<b>2017 Consumption (hcf)</b>	47,606	23,933	40,733	23,336	57,513	34,474	69,686	36,950	72,321	<b>33,163</b>	62,483	28,124	<b>530,322</b>
<b>10 Year Average Consumption (hcf)</b>	52,133	25,721	49,729	27,220	62,926	35,272	76,828	42,964	78,623	<b>37,699</b>	64,377	28,600	<b>582,093</b>
<b>2018 Water Sales</b>	\$ 124,508	\$ 54,277	\$ 104,414	\$ 46,762	\$ 129,277	\$ 68,907	\$ 153,224	\$ 99,809	\$ 160,133	<b>\$ 76,780</b>	\$ -	\$ -	<b>\$ 1,018,091</b>
<b>2017 Water Sales</b>	\$ 106,782	\$ 52,614	\$ 90,766	\$ 51,161	\$ 130,423	\$ 76,908	\$ 160,292	\$ 83,374	\$ 166,132	<b>74,033</b>	\$ 142,362	\$ 62,048	<b>\$ 1,196,894</b>
<b>2018 Service Fees</b>	\$ 56,999	\$ 43,875	\$ 57,130	\$ 43,906	\$ 57,211	\$ 43,952	\$ 55,964	\$ 46,469	\$ 55,888	<b>\$ 46,461</b>	\$ -	\$ -	<b>\$ 507,853</b>
<b>2017 Service Fees</b>	\$ 56,427	\$ 44,029	\$ 57,111	\$ 43,894	\$ 56,897	\$ 44,106	\$ 57,029	\$ 43,972	\$ 57,093	<b>44,011</b>	\$ 56,981	\$ 43,910	<b>\$ 605,458</b>
<b>2018 Hyd Fees</b>	\$ 1,575	\$ 225	\$ 1,575	\$ 225	\$ 1,575	\$ 225	\$ 1,550	\$ 250	\$ 1,550	<b>\$ 250</b>	\$ -	\$ -	<b>\$ 9,000</b>
<b>2018 DC Fees</b>	\$ 11,593	\$ 2,511	\$ 11,593	\$ 2,511	\$ 11,593	\$ 2,640	\$ 11,474	\$ 3,742	\$ 11,545	<b>\$ 3,695</b>	\$ -	\$ -	<b>\$ 72,896</b>
<b>2018 System Revenues</b>	\$ 194,675	\$ 100,887	\$ 174,713	\$ 93,403	\$ 199,656	\$ 115,725	\$ 222,212	\$ 150,270	\$ 229,116	<b>\$ 127,186</b>	\$ -	\$ -	<b>\$ 1,607,841</b>



# La Puente Valley County Water District

## PRODUCTION REPORT - OCTOBER 2018

LPVCWD PRODUCTION	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 YTD	2017
Well No. 2	4.37	4.85	5.71	0.00	4.74	4.00	18.34	10.21	92.83	6.65			151.70	191.09
Well No. 3	5.08	5.59	6.61	0.00	5.54	4.69	22.09	3.07	0.76	0.00			53.42	222.47
Well No. 5	291.98	273.48	319.24	300.50	315.32	308.42	291.21	280.74	137.14	314.80			2832.82	3092.85
Interconnections to LPVCWD	13.62	2.49	2.22	1.37	2.32	2.09	2.44	5.34	9.90	2.04			43.83	50.65
<b>Subtotal</b>	<b>315.05</b>	<b>286.40</b>	<b>333.78</b>	<b>301.87</b>	<b>327.92</b>	<b>319.20</b>	<b>334.07</b>	<b>299.36</b>	<b>240.63</b>	<b>323.48</b>	<b>0.00</b>	<b>0.00</b>	<b>3081.77</b>	<b>3557.06</b>
Interconnections to SWS	211.74	186.47	226.17	169.39	190.00	166.32	160.52	126.10	74.53	189.69			1700.92	2028.85
Interconnections to COI	1.16	0.84	7.82	3.69	0.13	0.38	0.73	1.03	2.32	1.24			19.34	60.26
Interconnections to Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00
<b>Subtotal</b>	<b>212.90</b>	<b>187.31</b>	<b>233.99</b>	<b>173.08</b>	<b>190.13</b>	<b>166.70</b>	<b>161.25</b>	<b>127.13</b>	<b>76.85</b>	<b>190.93</b>	<b>0.00</b>	<b>0.00</b>	<b>1720.26</b>	<b>2089.11</b>
<b>Total Production for LPVCWD</b>	<b>102.15</b>	<b>99.09</b>	<b>99.80</b>	<b>128.79</b>	<b>137.79</b>	<b>152.50</b>	<b>172.82</b>	<b>172.23</b>	<b>163.78</b>	<b>132.56</b>	<b>0.00</b>	<b>0.00</b>	<b>1361.51</b>	<b>1467.95</b>
<b>CIWS PRODUCTION</b>														
<b>COI Well No. 5 To SGVCW B5</b>	142.85	126.12	127.30	137.73	143.62	137.77	144.20	134.27	132.14	136.37			1362.37	1723.57
<b>Interconnections to CIWS</b>														
SGVWC Salt Lake Ave	0.68	0.61	0.62	0.62	0.67	0.75	0.86	1.05	1.11	1.05			8.02	9.13
SGVWC Lomas Ave	103.21	85.82	71.95	98.27	113.98	124.71	145.67	145.84	131.90	109.42			1130.77	1274.06
SGVWC Workman Mill Rd	0.31	0.21	0.09	0.05	0.02	0.00	0.00	0.00	0.00	0.00			0.68	1.88
Interconnections from LPVCWD	1.16	0.84	7.82	3.69	0.13	0.38	0.73	1.03	2.32	1.24			19.34	60.26
<b>Subtotal</b>	<b>105.36</b>	<b>87.48</b>	<b>80.48</b>	<b>102.63</b>	<b>114.80</b>	<b>125.84</b>	<b>147.26</b>	<b>147.92</b>	<b>135.33</b>	<b>111.71</b>	<b>0.00</b>	<b>0.00</b>	<b>1158.81</b>	<b>1345.33</b>
Interconnections to LPVCWD	13.44	2.49	2.22	1.37	2.32	2.09	2.44	5.34	9.90	2.04			43.65	49.89
<b>Total Production for CIWS</b>	<b>91.92</b>	<b>84.99</b>	<b>78.26</b>	<b>101.26</b>	<b>112.48</b>	<b>123.75</b>	<b>144.82</b>	<b>142.58</b>	<b>125.43</b>	<b>109.67</b>	<b>0.00</b>	<b>0.00</b>	<b>1115.16</b>	<b>1295.44</b>

**La Puente Valley County Water District - Water System Demand Comparison**

Month	2013	2018	Difference 2018-2013 (%)	Accumulative Difference (%)
January	115.58	101.97	-11.8%	-11.8%
February	112.08	99.09	-11.6%	-11.7%
March	135.08	99.80	-26.1%	-17.1%
April	153.73	128.79	-16.2%	-16.8%
May	174.40	137.79	-21.0%	-17.9%
June	185.13	152.50	-17.6%	-17.8%
July	204.48	172.82	-15.5%	-17.4%
August	201.38	172.23	-14.5%	-16.9%
September	187.60	163.78	-12.7%	-16.4%
October	172.74	132.56	-23.3%	-17.1%
November	139.24			
December	133.13			
<b>Totals</b>	<b>1914.57</b>	<b>1361.33</b>		

**City of Industry Waterworks - Water System Demand Comparison**

Month	2013	2018	Difference 2018-2013 (%)	Accumulative Difference (%)
January	90.55	91.92	1.5%	1.5%
February	81.62	84.99	4.1%	2.8%
March	99.4	78.26	-21.3%	-6.0%
April	115.82	101.26	-12.6%	-8.0%
May	147.93	112.48	-24.0%	-12.4%
June	152.60	123.75	-18.9%	-13.8%
July	141.36	144.82	2.4%	-11.1%
August	153.97	142.58	-7.4%	-10.5%
September	151.67	125.43	-17.3%	-11.4%
October	137.26	109.67	-20.1%	-12.3%
November	110.83			
December	99.84			
<b>Totals</b>	<b>1482.85</b>	<b>1115.16</b>		

Production data shown in acre feet (AF)

# Memo



To: Industry Public Utilities Commission  
Cc: La Puente Valley County Water District, Board of Directors  
From: Greg B. Galindo, General Manager  
Date: October 22, 2018  
Re: Industry Public Utilities Water Operations Quarterly Report (July - September 2018)

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In accordance with the City of Industry Waterworks System (the “CIWS”) Operation and Management Agreement between the City of Industry (the “City”) and the La Puente Valley County Water District (the “District”), the District is providing the CIWS Quarterly Report for the 1st quarter of the 2017-18 fiscal year. The report represents fiscal year-to-date information along with the current status of various items listed under the appropriate heading.

### ***Administrative/Financial***

- BPOU & Well No. 5 – District staff completed a draft of an updated agreement between the Cooperating Respondents (CRs) and the City related for the operation and treatment of the City’s Well No. 5. This draft was submitted to the CRs for comment. The District received comments back from the CR’s and the proposed updated agreement will be submitted to City staff before the end of October.
- 2018-19 Fiscal Year Budget – A draft report of Revenue and Expenses as of September 30, 2018, is enclosed for your review as ***Attachment 1***. District staff is still working on final year-end entries. Once completed a report with final account balances will be issued to the City.
- Fund Disbursements – For your reference, a list of disbursements from the IPU Water Operations Fund for the past quarter (by month) has been provided as ***Attachment 2***.

### ***Distribution, Supply and Production***

- Summary of Activities – A summary report of CIWS field activities for the 1st quarter of fiscal year 2018-19 is provided as ***Attachment 3***.
- City of Industry Well No. 5 Operations – Well No. 5 operated without issue in the 1st quarter. The current static water level, pumping water level and pumping rate for Well No. 5 is shown in the table below.

Well	Pump Setting (below surface)	Static Water Level	Pumping Water Level	Drawdown	Current GPM Pumping Rate
COI 5	162’	131’	147’	-16	1,040

- Production Summary – The production for the 1st quarter of fiscal year 2018-19, to meet the needs of the CIWS, was 412.83 AF. The 2018-19 fiscal year production report and related graph are provided as ***Attachment 4***.



- 2018-19 Water Conservation – A summary of water system usage for fiscal year 2018-19 as compared to calendar year 2013 is shown below. The overall reduction in use for this time period is 11.2%.

Month	2013	2018-19	Difference Current-2013 (%)	Accumulative Difference (%)
July	141.36	142.98	1.1%	1.1%
August	153.97	140.16	-9.0%	-4.1%
September	151.67	125.43	-17.3%	-8.6%
Totals	447.00	408.57		
Production data shown in acre feet (AF)				

- CIWS and LPVCWD Water Exchange – In accordance with the Water Exchange and Supply Agreement between LPVCWD and the City of Industry, the District is providing the water exchange summary as of September 30, 2018, as *Attachment 5*.
- MSGB Groundwater Levels – On, October 12, 2018, the Baldwin Park key well level was 171 feet asl, which is a historic low for the basin. Watermaster’s latest report on hydrologic conditions is enclosed as *Attachment 6*.

**Water Quality / Compliance**

- Distribution System Monitoring – District Staff has collected all required water quality samples from the distribution system for the 1st quarter of fiscal year 2018-19; approximately 88 samples were collected. All results met State and Federal drinking water quality regulations.
- Source Monitoring – All water quality samples were collected from Well No. 5, as required. The table below summarizes Well No. 5’s current water quality for constituents of concern.

Month Sampled	Flow Rate	1,1 DCE	TCE	PCE	All Other	Perchlorate	1,4-Dioxane	NDMA	Nitrate
		MCL= 6 ppb	MCL= 5 ppb	MCL= 5 ppb	VOCs	MCL= 6 ppb	NL= 1 ppb	NL= 10 ppt	MCL=10 ppm
Sep-18	1,040	1.8	3.4	12	ND	3.1	.55	ND	6.6

- Lead Sampling for Schools – AB 746 requires community water systems to test the lead levels of drinking water at all California public K-12 schools (constructed before January 1, 2010) and preschools and child daycare facilities located on public school property by July 1, 2019. LPVCWD staff has contacted public schools/facilities within the water system to coordinate the sampling effort required by AB 746 by July 1, 2019.
- DDW Sanitary Survey – On January 11, 2018, DDW visited and inspected the CIWS facilities as part of their tri-annual sanitary survey inspection. During the inspection, no noticeable deficiencies were noted. On May 30, 2018, a letter with respect to the findings of the Sanitary Survey was received summarizing two items that needed to be addressed. The first item was to revise the 2017 Valve Exercise and Maintenance Program to include an inventory of all valves and the second item was to clarify the CIWS’s valve exercise goal. Item 1 was submitted at the end of August 2018, and item 2 has been clarified, that all valves are to be exercised at least once every four years.
- 2018 Permit Amendment – In response to a request by DDW, at the end of April 2018, District staff submitted a water system permit amendment application, which included an updated operating and monitoring plan. DDW then provided, on July 23, 2018, a draft version of a permit amendment to District staff for review and comment. Staff reviewed and provided comments to the draft version of the permit.

District staff is now waiting for a final updated permit from DDW that expected to be issued within the next month.

### ***Capital / Special Projects***

- Industry Hills Meter Installations –District staff initiated the new billing for the newly installed meters, beginning the first billing cycle after July 1, 2018.
- Starhill Lane and 3<sup>rd</sup> Avenue Waterline Improvement Project – The 2017 CIWS Water Master Plan recommended improvements to waterlines in Starhill Lane and 3<sup>rd</sup> Avenue south of Lomitas Avenue. The Project’s total budget is estimated at \$538,000 for the 2018-19 FY. In January 2018, District staff provided City staff a draft RFP for the preparation of plans, specifications and an estimate for the Project.

### ***Personnel***

- As of September 30, 2018, the District has 8 full-time field employees, 5 full-time office/administrative employees and 2 part-time office employees. A summary of the current hourly rates for each District employee has been provided as ***Attachment 7***.
- Weekly field tailgate safety meetings continue to be conducted for all field employees.

### ***Attachments***

1. Statement of Revenue and Expenses for the 1st Quarter of 2018-19.
2. Fund Disbursement List for 1st Quarter of 2018-19.
3. Summary of Field Activities for 1st Quarter of 2018-19.
4. Production Summary for 1st Quarter of 2018-19.
5. CIWS – LPVCWD Water Exchange and Delivery Summary for 1st Quarter of 2018-19.
6. Main San Gabriel Basin Hydrologic Report for September 2018.
7. Summary of Hourly Rates for District Staff for the 1st Quarter of 2018-19.

# Attachment 1

**INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS**  
**Statement of Revenue and Expenses Summary**  
**For the Period Ending September 30, 2018**  
**(Unaudited)**

<b>DESCRIPTION</b>	<b>September 2018</b>	<b>FISCAL YTD 2018-2019</b>	<b>BUDGET FY 2018-2019</b>	<b>25% OF BUDGET</b>	<b>FY END 2017-2018</b>
Total Operational Revenues	\$ 230,861	\$ 576,366	\$ 2,026,800	28%	\$ 1,920,277
Total Non-Operational Revenues	-	-	30,000	0%	40,307
<b>TOTAL REVENUES</b>	<b>230,861</b>	<b>576,366</b>	<b>2,056,800</b>	<b>28%</b>	<b>1,960,584</b>
Total Salaries & Benefits	52,480	171,261	668,600	26%	644,392
Total Supply & Treatment	4,725	41,532	848,565	5%	607,538
Total Other Operating Expenses	3,607	37,433	171,500	22%	149,475
Total General & Administrative	47,338	54,469	301,568	18%	245,510
Total Other & System Improvements	-	-	120,800	0%	45,748
<b>TOTAL EXPENSES</b>	<b>108,150</b>	<b>304,696</b>	<b>2,111,000</b>	<b>14%</b>	<b>1,692,664</b>
<b>OPERATING INCOME</b>	<b>122,711</b>	<b>271,670</b>	<b>(54,200)</b>	<b>-501%</b>	<b>267,920</b>
<b>NET INCOME (LOSS)</b>	<b>\$ 122,711</b>	<b>\$ 271,670</b>	<b>\$ (54,200)</b>	<b>-501%</b>	<b>\$ 267,920</b>

**INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS**

**Statement of Revenue and Expenses**

**For the Period Ending September 30, 2018**

**(Unaudited)**

DESCRIPTION	September 2018	FISCAL YTD 2018-2019	BUDGET FY 2018-2019	25% OF BUDGET	FY END 2017-2018
<b>Operational Revenues</b>					
Water Sales	\$ 160,133	\$ 393,278	\$ 1,317,750	29.84%	\$ 1,206,751
Service Charges	55,888	149,121	600,000	24.85%	598,493
Customer Charges	1,745	4,645	21,000	22.12%	20,000
Fire Service	13,095	29,322	88,000	33.32%	95,032
<b>Total Operational Revenues</b>	<b>230,861</b>	<b>576,366</b>	<b>2,026,800</b>	<b>28.44%</b>	<b>1,920,277</b>
<b>Non-Operational Revenues</b>					
Contamination Reimbursement	-	-	30,000	0.00%	40,267
Developer Fees	-	-	-	N/A	-
Miscellaneous Income	-	-	-	N/A	39
<b>Total Non-Operational Revenues</b>	<b>-</b>	<b>-</b>	<b>30,000</b>	<b>0.00%</b>	<b>40,307</b>
<b>TOTAL REVENUES</b>	<b>230,861</b>	<b>576,366</b>	<b>2,056,800</b>	<b>28.02%</b>	<b>1,960,584</b>
<b>Salaries &amp; Benefits</b>					
Administrative Salaries	16,058	51,892	186,800	27.78%	190,967
Field Salaries	16,567	57,231	238,000	24.05%	219,465
Employee Benefits	11,227	37,223	149,000	24.98%	143,834
Pension Plan	4,708	15,548	57,440	27.07%	54,946
Payroll Taxes	2,322	7,768	30,360	25.59%	29,215
Workman's Compensation	1,598	1,598	7,000	22.83%	5,964
<b>Total Salaries &amp; Benefits</b>	<b>52,480</b>	<b>171,261</b>	<b>668,600</b>	<b>25.61%</b>	<b>644,392</b>
<b>Supply &amp; Treatment</b>					
Purchased Water - Leased	-	-	377,614	0.00%	326,781
Purchased Water - Other	1,969	4,576	17,500	26.15%	17,128
Power	2,734	30,936	120,000	25.78%	119,441
Assessments	-	5,515	184,752	2.99%	135,945
Treatment	-	-	6,200	0.00%	4,834
Well & Pump Maintenance	22	506	142,500	0.35%	3,409
<b>Total Supply &amp; Treatment</b>	<b>4,725</b>	<b>41,532</b>	<b>848,565</b>	<b>4.89%</b>	<b>607,538</b>
<b>Other Operating Expenses</b>					
General Plant	67	1,706	10,500	16.24%	4,932
Transmission & Distribution	2,246	25,886	64,000	40.45%	54,395
Vehicles & Equipment	-	-	32,000	0.00%	31,553
Field Support & Other Expenses	895	7,911	35,000	22.60%	31,104
Regulatory Compliance	398	1,931	30,000	6.44%	27,491
<b>Total Other Operating Expenses</b>	<b>3,607</b>	<b>37,433</b>	<b>171,500</b>	<b>21.83%</b>	<b>149,475</b>

**INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS**

**Statement of Revenue and Expenses**

**For the Period Ending September 30, 2018**

**(Unaudited)**

DESCRIPTION	September 2018	FISCAL YTD 2018-2019	BUDGET FY 2018-2019	25% OF BUDGET	FY END 2017-2018
<b>General &amp; Administrative</b>					
Management Fee	46,428	46,428	187,568	24.75%	183,891
Office Expenses	683	2,185	21,000	10.40%	17,478
Insurance	-	-	15,000	0.00%	5,667
Professional Services	-	113	45,000	0.25%	15,576
Customer Accounts	214	2,930	16,000	18.31%	16,247
Public Outreach & Conservation	14	2,161	15,000	14.41%	3,923
Other Administrative Expenses	-	653	2,000	32.67%	2,727
<b>Total General &amp; Administrative</b>	<b>47,338</b>	<b>54,469</b>	<b>301,568</b>	<b>18.06%</b>	<b>245,510</b>
<b>Other Expenses &amp; System Improvements (Water Operations Fund)</b>					
Transfer to Capital or Expense	-	-	-	N/A	-
Developer Capital Contributions	-	-	-	N/A	-
<b>Net Developer Project Activity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Other System Improvements (Materials)	-	-	-	N/A	-
FH Laterals	-	-	6,300	0.00%	790
Service Line Replacements	-	-	30,000	0.00%	31,693
Valve Replacements	-	-	19,500	0.00%	5,874
Meter Installations - Industry Hills	-	-	-	0.00%	7,391
Meter Read Collection System	-	-	25,000	0.00%	-
SCADA System Assessment & Upgrades	-	-	40,000	0.00%	-
<b>Total Other &amp; System Improvements</b>	<b>-</b>	<b>-</b>	<b>120,800</b>	<b>0.00%</b>	<b>45,748</b>
<b>TOTAL EXPENSES</b>	<b>108,150</b>	<b>304,696</b>	<b>2,111,000</b>	<b>14.43%</b>	<b>1,692,664</b>
<b>OPERATING INCOME</b>	<b>122,711</b>	<b>271,670</b>	<b>(54,200)</b>	<b>N/A</b>	<b>267,920</b>

## Attachment 2

## Industry Public Utilities July 2018 Disbursements

Check #	Payee	Amount	Description
3129	CCSInteractive	\$ 13.60	Monthly Website Hosting
3130	Corrpro	\$ 1,965.00	Reservoir Maintenance
3131	EcoTech Services Inc	\$ 1,950.00	UHET Program
3132	Hach Company	\$ 305.53	Field Supplies
3133	Highroad IT	\$ 268.00	Technical Support
3134	La Puente Valley County Water District	\$ 63,178.50	Labor Costs June 2018
3135	Merritt's Hardware	\$ 89.95	Field Supplies
3136	MJM Communications & Fire	\$ 180.00	Security Monitoring
3137	Platinum Consulting Group	\$ 90.00	Administrative Support
3138	Resource Building Materials	\$ 160.71	Field Supplies
3139	S & J Supply Co Inc	\$ 159.73	Field Supplies
3140	Time Warner Cable	\$ 279.96	Telephone Service
3141	Underground Service Alert	\$ 59.45	Line Notifications
3142	Weck Laboratories Inc	\$ 270.50	Water Sampling
3143	ACWA/JPIA	\$ 1,488.63	Worker's Compensation
3144	Yunpeng Ji	\$ 46.96	Customer Overpayment Refund
3145	Answering Service Care	\$ 171.28	Answering Service
3146	Cell Business Equipment	\$ 17.38	Office Expense
3147	CV Strategies	\$ 4,274.70	Consumer Confidence Reports
3148	Ferguson Enterprises Inc #1350	\$ 23.16	Field Supplies
3149	Industry Public Utility Commission	\$ 1,334.61	Industry Hills Power Expense
3150	InfoSend	\$ 662.35	Billing Expense
3151	Jack Henry & Associates	\$ 34.00	Web E-Check Fee's
3152	La Puente Valley County Water District	\$ 589.89	Web CC & Bank Fee's Reimbursement
3153	Lagerlof, Senecal, Gosney & Kruse	\$ 1,232.50	Attorney Fee's
3154	Locus Technology	\$ 252.00	Technical Support
3155	O'Reilly Auto Parts	\$ 16.68	Field Supplies
3156	San Gabriel Valley Water Company	\$ 1,606.60	Purchased Water - Salt Lake
3157	SC Edison	\$ 12,489.73	Power Expense
3158	Vulcan Materials Company	\$ 876.02	Field Supplies - Asphalt
3159	Weck Laboratories Inc	\$ 281.50	Water Sampling
3160	Western Water Works	\$ 148.48	Field Supplies
3161	Armando Medina	\$ 20.00	Customer Overpayment Refund
3162	Petty Cash	\$ 13.29	Office Expense
Autodeduct	Wells Fargo Merchant Fee's	\$ 95.13	Merchant Fee's
Autodeduct	First Data Global Leasing	\$ 43.80	Credit Card Machine Lease
Autodeduct	Intuit Quickbooks	\$ 386.51	Administrative Supplies
<b>Total July 2018 Disbursements</b>		<b>\$ 95,076.13</b>	



## Industry Public Utilities August 2018 Disbursements

Check #	Payee	Amount	Description
3163	CCSInteractive	\$ 378.60	Monthly Website Hosting
3164	G. M. Sager Construction	\$ 6,650.00	Field Expense - Patch Work
3165	Highroad IT	\$ 368.00	Technical Support
3166	Irri-Care Plumbing & Backflow Testing	\$ 95.00	Backflow Testing
3167	La Puente Valley County Water District	\$ 58,821.67	Labor Costs July 2018
3168	SoCal Gas	\$ 14.79	Gas Expense
3169	Time Warner Cable	\$ 51.61	Telephone Service
3170	Time Warner Cable	\$ 279.96	Telephone Service
3171	Underground Service Alert	\$ 90.80	Line Notifications
3172	Verizon Wireless	\$ 76.02	Cellular Service
3173	Weck Laboratories Inc	\$ 215.00	Water Sampling
3174	Merritt's Hardware	\$ 69.58	Field Supplies
3175	Answering Service Care	\$ 183.13	Answering Service
3176	Cell Business Equipment	\$ 26.28	Office Expense
3177	Ferguson Enterprises Inc #1350	\$ 483.32	Booster Maintenance
3178	InfoSend	\$ 686.07	Billing Expense
3179	La Puente Valley County Water District	\$ 14,355.43	Truck, Equipment & Fuel Reimbursement
3180	La Puente Valley County Water District	\$ 528.74	Web CC & Bank Fee's Reimbursement
3181	SC Edison	\$ 2,791.52	Power Expense
3182	Vulcan Materials Company	\$ 338.65	Field Supplies - Asphalt
3183	Weck Laboratories Inc	\$ 230.00	Water Sampling
3184	Collicutt Energy Services Inc	\$ 390.00	Generator Maintenance
3185	G. M. Sager Construction	\$ 11,220.00	Field Expense - Patch Work
3186	Industry Public Utility Commission	\$ 1,616.48	Industry Hills Power Expense
3187	Jack Henry & Associates	\$ 40.50	Web E-Check Fee's
3188	Locus Technology	\$ 5,224.25	Technical Support - SCADA
3189	Main SG Basin Watermaster	\$ 124,914.55	Production Assessments FY 2017/2018
3190	S & J Supply Co Inc	\$ 3,160.20	Developer Expense
3191	San Gabriel Valley Water Company	\$ 1,753.34	Purchased Water - Salt Lake
3192	SC Edison	\$ 9,851.04	Power Expense
3193	Staples	\$ 130.34	Office Supplies
3194	Verizon Wireless	\$ 76.02	Cellular Service
3195	Verizon Wireless	\$ 637.72	Cellular Service
3196	Petty Cash	\$ 64.09	Office Expense
Autodeduct	Wells Fargo Merchant Fee's	\$ 72.83	Merchant Fee's
Autodeduct	First Data Global Leasing	\$ 43.80	Credit Card Machine Lease - Monthly
Autodeduct	First Data Global Leasing	\$ 30.20	Credit Card Machine Lease - Annual

**Total August 2018 Disbursements \$ 245,959.53**

## Industry Public Utilities September 2018 Disbursements

Check #	Payee	Amount	Description
3197	CCSInteractive	\$ 13.60	Monthly Website Hosting
3198	Cell Business Equipment	\$ 34.04	Office Expense
3199	La Puente Valley County Water District	\$ 13,788.49	Inventory Reimbursement
3200	Los Angeles County Fire Dept	\$ 831.00	HazMat Permit Fee's
3201	San Gabriel Basin WQA	\$ 5,515.00	Pumping Rights Assessments
3202	SC Edison	\$ 3,476.50	Power Expense
3203	SoCal Gas	\$ 14.30	Gas Expense
3205	Underground Service Alert	\$ 68.52	Line Notifications
3206	Weck Laboratories Inc	\$ 230.00	Water Sampling
3207	Merritt's Hardware	\$ 51.71	Field Supplies
3208	Time Warner Cable	\$ 51.61	Telephone Service
3209	Time Warner Cable	\$ 279.94	Telephone Service
3210	Juanita Coleman	\$ 20.00	Customer Overpayment Refund
3211	Michael Luu	\$ 57.70	Customer Overpayment Refund
3212	Answering Service Care	\$ 147.97	Answering Service
3213	Bank of America-Visa	\$ 364.00	Administrative Expense
3214	Cla-Val	\$ 4,194.10	ClaValve Maintenance
3215	EcoTech Services Inc	\$ 1,755.00	UHET Program
3216	Ferguson Enterprises Inc	\$ 21.69	Field Supplies
3217	Ferguson Waterworks	\$ 940.18	Meter Expense
3218	Hach Company	\$ 168.41	Field Supplies
3219	Highroad IT	\$ 268.00	Technical Support
3220	InfoSend	\$ 669.08	Billing Expense
3221	Jack Henry & Associates	\$ 45.00	E-Check Fee's
3222	La Puente Valley County Water District	\$ 59,959.71	Labor Costs August 2018
3223	La Puente Valley County Water District	\$ 575.70	Web CC & Bank Fee's Reimbursement
3224	La Puente Valley County Water District	\$ 46,427.85	3rd Quarter 2018 O&M Fee's
3225	Peck Road Gravel	\$ 180.00	Asphalt & Concrete Disposal
3226	Sunbelt Rentals	\$ 203.60	Equipment Rental
3227	Trench Shoring	\$ 217.00	Equipment Rental
3228	Weck Laboratories Inc	\$ 215.00	Water Sampling
3229	Cell Business Equipment	\$ 45.13	Office Expense
3230	Industry Public Utility Commission	\$ 1,307.47	Industry Hills Power Expense
3231	Peck Road Gravel	\$ 240.00	Asphalt & Concrete Disposal
3232	Platinum Consulting Group	\$ 112.50	Administrative Support
3233	Resource Building Materials	\$ 22.40	Field Supplies
3234	San Gabriel Valley Water Company	\$ 1,968.88	Purchased Water - Salt Lake
3235	SC Edison	\$ 9,193.93	Power Expense
3236	SoCal Gas	\$ 15.78	Gas Expense
3237	Sunbelt Rentals	\$ 241.92	Equipment Rental
3238	Verizon Wireless	\$ 404.19	Cell Phone Service
3239	Vulcan Materials Company	\$ 588.99	Field Supplies - Asphalt
3240	Weck Laboratories Inc	\$ 230.00	Water Sampling
3241	Ferguson Waterworks	\$ 670.00	Developer Expense

## Industry Public Utilities September 2018 Disbursements - continued

Check #	Payee	Amount	Description
3242	Peck Road Gravel	\$ 720.00	Asphalt & Concrete Disposal
3243	Staples	\$ 44.95	Office Supplies
3244	Petty Cash	\$ 21.71	Office Expense
Online	Home Depot Credit Services	\$ 61.53	Field Supplies
Online	County of LA Dept of Public Works	\$ 535.00	Permit Fee's
Autodeduct	Wells Fargo Merchant Fee's	\$ 97.95	Merchant Fee's
Autodeduct	First Data Global Leasing	\$ 43.80	Credit Card Machine Lease
<b>Total September 2018 Disbursements</b>		<b>\$ 157,350.83</b>	

# Attachment 3



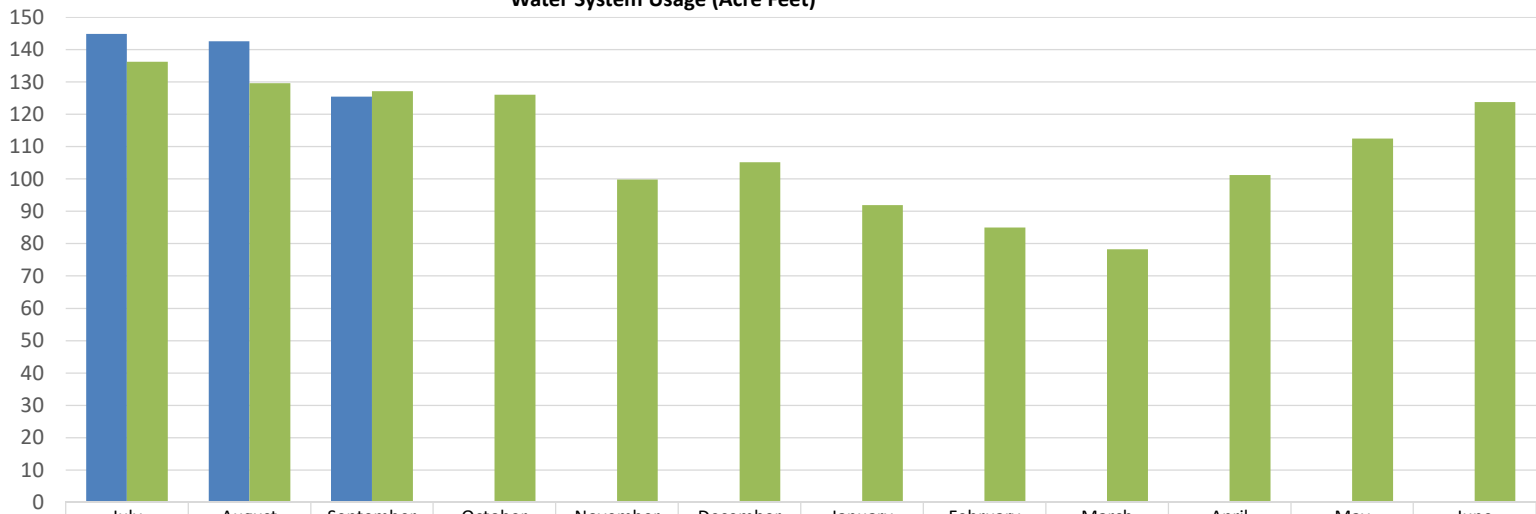
# Attachment 4

## Industry Public Utilities - Water Operations

### PRODUCTION REPORT - FISCAL 2018-19

CIWS PRODUCTION	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	2018-19 FISCAL	2017-18 FISCAL
<b>COI Well No. 5 To SGVCW B5</b>	144.20	134.27	132.14										<b>410.61</b>	1674.97
<b>Interconnections to CIWS</b>														
SGVWC Salt Lake Ave	0.86	1.05	1.11										<b>3.02</b>	8.86
SGVWC Lomas Ave	145.67	145.84	131.90										<b>423.41</b>	1309.38
SGVWC Workman Mill Rd	0.00	0.00	0.00										<b>0.00</b>	1.97
Interconnections from LPVCWD	0.73	1.03	2.32										<b>4.08</b>	47.06
<b>Subtotal</b>	<b>147.26</b>	<b>147.92</b>	<b>135.33</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>430.51</b>	<u>1367.27</u>
Interconnections to LPVCWD	2.44	5.34	9.90										<b>17.68</b>	<u>50.64</u>
<b>Production for CIWS 2018-19</b>	<b>144.82</b>	<b>142.58</b>	<b>125.43</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>412.83</b>	<u>1316.63</u>

**Water System Usage (Acre Feet)**



■ CIWS Production 2018-19	144.82	142.58	125.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
■ CIWS Production 2017-18	136.28	129.61	127.11	126.02	99.81	105.14	91.92	84.99	78.26	101.26	112.48	123.75		

# Attachment 5



CIWS-LPVCWD WATER EXCHANGE SUMMARY (pursuant to July 2015 Water Exchange and Supply Agreement )

Deliveries from LPVCWD to CIWS

Report for First Quarter 18/19

QTR	Zone 488 Deliveries							Zone 775 Deliveries							Combined		
	Connection 1	Connection 2	Connection 3	Connection 3A	Zone 488 Total	Zone 488 Running Total	Zone 488 Previous Year	Connection 4	Connection 5	Connection 6	Connection 7	Connection 7A	Zone 775 Total	Zone 775 Running Total	Zone 775 Previous Year	Total	Running Total
Prior Period (17-18)					118.41	118.41	118.41						120.39	120.39	120.39	238.80	238.80
18-19 QTR 1	4.08	0.00	0.00	0.00	4.08	122.49	4.75			0.00	0.00		0.00	120.39	7.24	4.08	242.88
18-19 QTR 2					0.00	122.49	8.74						0.00	120.39	38.79	0.00	242.88
18-19 QTR 3					0.00	122.49	1.35						0.00	120.39	8.47	0.00	242.88
18-19 QTR 4					0.00	122.49	0.69						0.00	120.39	3.52	0.00	242.88
Annual Total	4.08	0.00	0.00	0.00	122.49		118.41			0.00	0.00		120.39		120.39	242.88	242.88

Deliveries from CIWS to LPVCWD

QTR	Zone 488 Deliveries							Zone 775 Deliveries							Combined		
	Connection 1	Connection 2	Connection 3	Connection 3A	Zone 488 Total	Zone 488 Running Total	Zone 488 Previous Year	Connection 4	Connection 5	Connection 6	Connection 7	Connection 7A	Zone 775 Total	Zone 775 Running Total	Zone 488 Previous Year	Total	Running Total
Prior Period (17-18)					116.20	116.20	116.20						96.88	96.89	96.89	213.08	213.08
18-19 QTR 1	6.63	0.00		0.00	6.63	122.83	3.85	0.00	0.94	6.84	7.53		15.31	112.20	8.83	21.94	235.02
18-19 QTR 2					0.00	122.83	7.39						0.00	112.20	7.59	0.00	235.02
18-19 QTR 3					0.00	122.83	5.45						0.00	112.20	12.71	0.00	235.02
18-19 QTR 4					0.00	122.83	0.00						0.00	112.20	5.78	0.00	235.02
Annual Total	6.63	0.00		0.00	122.83		116.20	0.00	0.94	6.84	7.53		112.19		96.88	235.02	235.02

Delivery Summary

Quarter	A			B			C			D			E	
	LPVCWD Total to CIWS	CIWS Total to LPVCWD	Difference	LPVCWD to CIWS in 488	CIWS to LPVCWD in 488	488 Difference	Amount unable to exchange within 12 months in 488	CIWS owes \$ to LPVCWD for 448 Deliveries	LPVCWD to CIWS in 775	CIWS to LPVCWD in 775	775 Difference	Amount unable to exchange within 12 months in 775	LPVCWD owes \$ to CIWS for 775 Deliveries	LPVCWD Owes \$ to CIWS
Prior Period (17-18)	238.80	213.08	-25.72	118.41	116.20	-2.21	0.00	0.00	120.39	96.88	-23.51	0.00	0.00	0.00
18-19 QTR 1	4.08	21.94	17.86	4.08	6.63	2.55	0.00	0.00	0.00	15.31	15.31	0.00	0.00	0.00
18-19 QTR 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18-19 QTR 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18-19 QTR 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Running Total	242.88	235.02	-7.86	122.49	122.83	0.34			120.39	112.19	-8.20			

Balance Owed by CIWS Overall **7.86** Balance Owed to CIWS in 488 **0.34** Balance Owed to LPVCWD in 775 **8.20**

Notes:

Calculation of payment is not applicable until a full 12 months into the agreement that was entered into in July 2015

Column A represents water delivered in Zone 488 that was not redelivered within 12 months.

Column B represents the undelivered amount multiplied by the agreed rate to convey water to the 448 zone as detailed in example table above.

Column C represents water delivered in Zone 775 that was not redelivered within 12 months.

Column D represents the undelivered amount multiplied by the agreed upon rate to convey water to the 775 zone as detailed in example table above.

Column E represents the difference between what each party owes.

# Attachment 6



OCTOBER 3, 2018

REPORT OF THE WATERMASTER ENGINEER  
ON HYDROLOGIC CONDITIONS

**+ *Baldwin Park Key Well (see attached graph)***

- Located in the central portion of the San Gabriel Valley within the City of Baldwin Park and used as a general indication of water elevations throughout the San Gabriel Valley
- One vertical foot is equivalent to about 8,000 acre-feet of groundwater in the Main Basin
- On August 24, 2018, the Baldwin Park Key Well groundwater elevation was 173.8 feet.
- On September 21, 2018, the Baldwin Park Key Well groundwater elevation was **171.9 feet, which is a new historical low. The previous historical low was 172.2 feet on September 30, 2016.** A decrease of 0.5 feet from the prior week. A decrease of about 2 feet from the prior month.
  - ❖ About 9 feet lower than one year ago (represents 72,000 acre-feet). Includes an estimated 157,200 acre-feet of untreated imported water in cyclic storage accounts (about 114,700 acre-feet in cyclic storage accounts and about 42,500 acre-feet in MWD Pre-Delivery account), which represents about 20 feet of groundwater elevation at the Key Well.

**+ *Rainfall (see attached graphs)***

- Data are readily available on a daily basis and are indicative of comparative amount of rainfall in the San Gabriel Valley (percent of average)
- Puddingstone Dam as of September 25, 2018
  - ❖ Average rainfall from July 1<sup>st</sup> through September 30<sup>th</sup> of each year is 0.40 inches
  - ❖ Rainfall during July 1, 2018 through September 25, 2018 is 0.00 inches
  - ❖ Rainfall during July 1, 2017 through September 30, 2017 is 0.11 inches
  - ❖ Rainfall during July 1, 2017 through June 30, 2018 was 7.03 inches, which was 39 percent of average
- Los Angeles Civic Center as of September 25, 2018
  - ❖ Average rainfall from July 1<sup>st</sup> through September 30<sup>th</sup> of each year is 0.21 inches
  - ❖ Rainfall during July 1, 2018 through September 25, 2018 is 0.00 inches
  - ❖ Rainfall during July 1, 2017 through September 30, 2017 is 0.07 inches
  - ❖ Rainfall during July 1, 2017 through June 30, 2018 was 4.79 inches, which was 32 percent of average

***✚ Reservoir Storage and Releases***

- There are three dams and reservoirs located along the San Gabriel River above San Gabriel Canyon. Their primary function is for flood control and also used to store watershed runoff for subsequent groundwater replenishment.
  - ❖ Cogswell Reservoir is located highest in the watershed and has a maximum storage capacity of 10,438 acre-feet
  - ❖ San Gabriel Reservoir is located downstream of and receives releases from Cogswell Reservoir, and has a maximum storage capacity of 44,106 acre-feet
  - ❖ Morris Reservoir is located downstream of and receives releases from San Gabriel Reservoir, and has a maximum storage capacity of 29,944 acre-feet. Releases from Morris Reservoir and San Gabriel Reservoir are used at local surface water treatment plants and used for groundwater replenishment
  - ❖ Total storage capacity is 84,488 acre-feet
  - ❖ The combined minimum pool behind Cogswell, San Gabriel and Morris Reservoirs is about 10,500 acre-feet.
  - ❖ Combined storage as of September 24, 2018 was 21,671 acre-feet (about 26 percent of capacity). **Excluding minimum pool storage, about 11,200 acre-feet is available for direct use or groundwater replenishment.**
  - ❖ San Gabriel Reservoir inflow was 2 cfs and release was 20 cfs as of September 24, 2018. (a portion of that release was delivered to Committee Azusa Conduit)
  - ❖ Morris Reservoir inflow was 0 cfs and release was 0 cfs as of September 24, 2018.

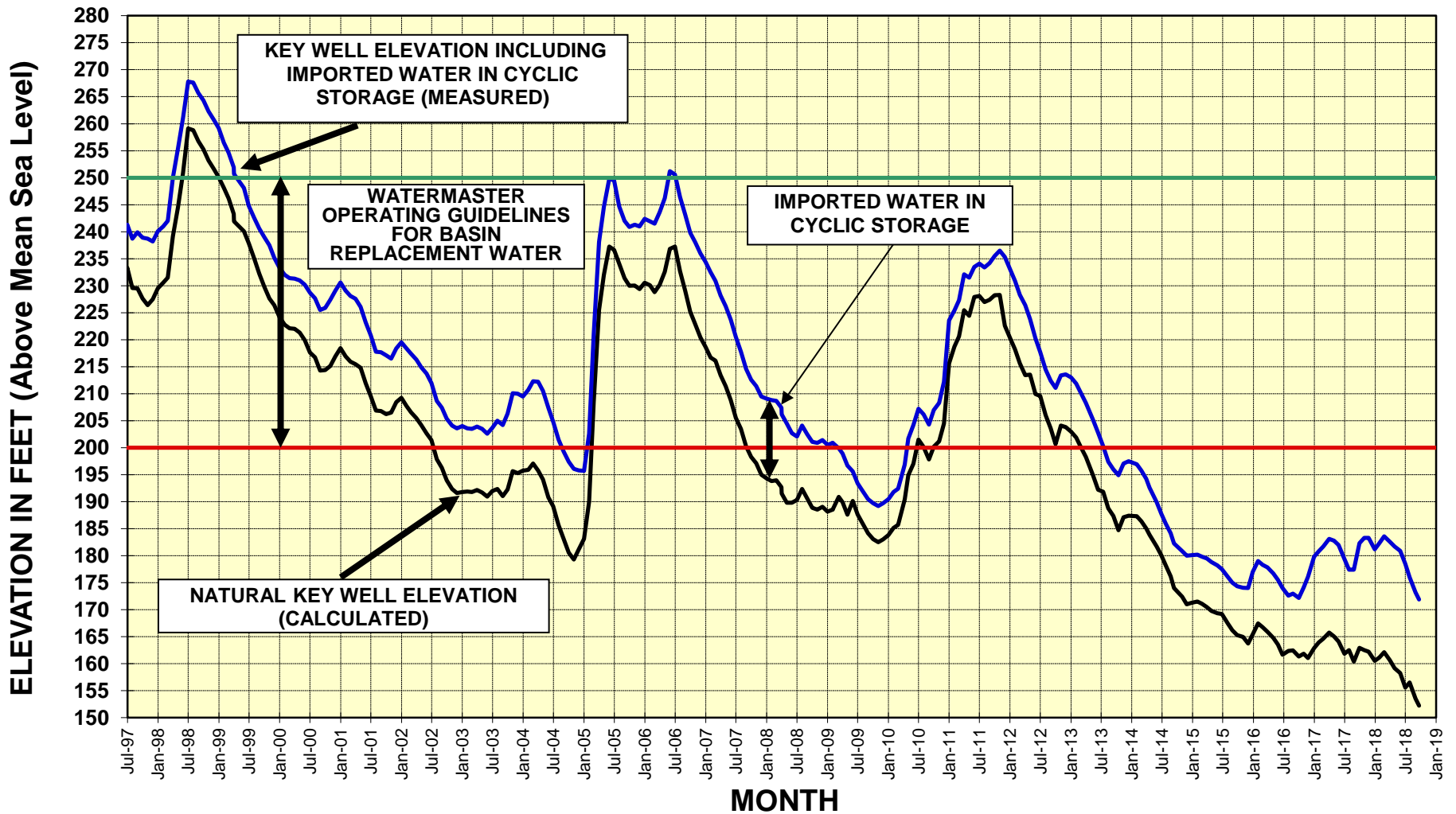
***✚ Untreated Imported Water Deliveries***

- Upper District
  - ❖ USG-3 is located in San Gabriel Canyon just below Morris Dam, it represents Upper District's primary point of delivery of untreated imported water for groundwater replenishment to the San Gabriel Valley. The typical delivery rate is about 190 cfs (or about 375 acre-feet per day)
    - Under the MWD Pre-delivery Agreement, MWD delivered 53,530.4 acre-feet through USG-3 and received a cyclic storage transfer of 5,000 acre-feet from San Gabriel District. Upper District and Watermaster paid MWD for 16,000 acre-feet in December 2017.
    - Upper District made no deliveries during September 2018.

- Three Valleys District
  - ❖ Three Valleys District did not make deliveries through USG-3 during September 2018.
  - ❖ Three Valleys District did not make deliveries through PM-26 during September 2018.
  - ❖ Three Valleys District did not make deliveries to the San Gabriel Canyon Spreading Grounds during September 2018.
  
- San Gabriel District
  - ❖ San Gabriel District delivered 1,544 acre-feet to the San Gabriel Canyon Spreading Grounds during August 2018.
  - ❖ San Gabriel District did not make deliveries to the San Dimas Spreading Grounds during August 2018.
  - ❖ San Gabriel District did not make deliveries to the San Gabriel River during August 2018.
  - ❖ It is estimated San Gabriel District will deliver about 1,100 acre-feet to the San Gabriel Canyon Spreading Grounds during September 2018.

✚ **Landfill Report**

- Watermaster staff toured the following landfills during the month of September 2018:
  - ❖ Azusa Land Reclamation
  - ❖ Peck Road
  - ❖ Arcadia Reclamation Inc. (formerly Nu Way – Arrow)
  - ❖ Manning Pit
- During the tour, Watermaster staff found that each landfill appeared to operate consistent with the conditions under each landfill's permit.



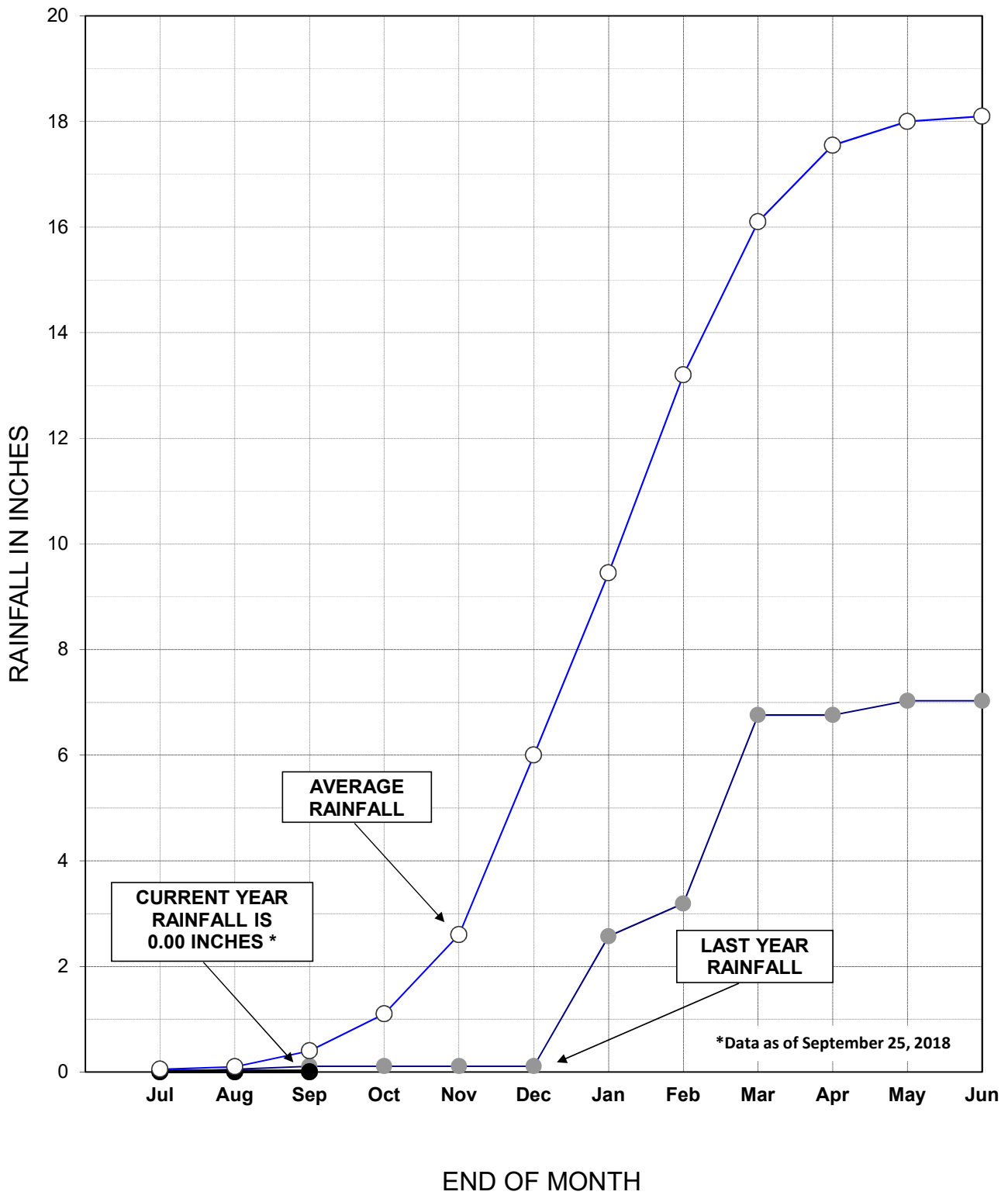
**STETSON ENGINEERS INC.**

Covina San Rafael Mesa, Arizona

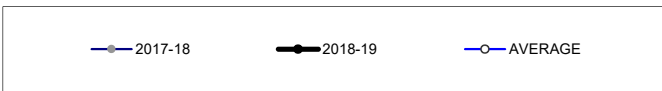
WATER RESOURCE ENGINEERS

**MAIN SAN GABRIEL BASIN WATERMASTER**

**BALDWIN PARK KEY WELL  
GROUNDWATER ELEVATION**

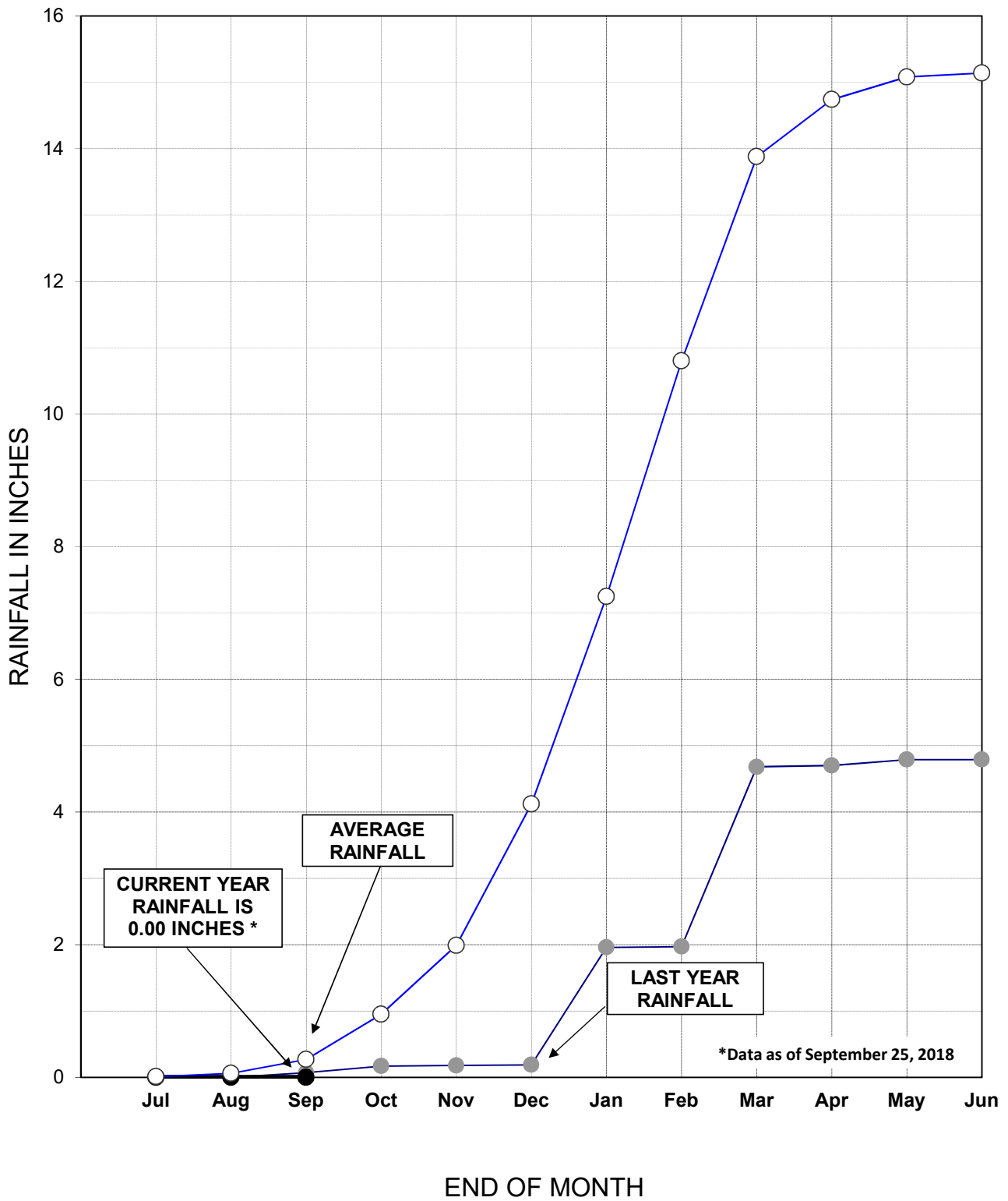


\*Data as of September 25, 2018



**STETSON ENGINEERS INC.**  
Covina San Rafael Mesa, Arizona  
WATER RESOURCE ENGINEERS

**MAIN SAN GABRIEL BASIN WATERMASTER**  
**ACCUMULATED RAINFALL**  
**AT PUDDINGSTONE DAM (STATION NO. 96-C)**



\*Data as of September 25, 2018



**STETSON ENGINEERS INC.**  
Covina San Rafael Mesa, Arizona  
WATER RESOURCE ENGINEERS

**MAIN SAN GABRIEL BASIN WATERMASTER**

**ACCUMULATED RAINFALL  
AT LOS ANGELES CIVIC CENTER**



# Attachment 7

**SALARY AND BENEFITS SUMMARY OF LPVCWD STAFF - AS OF SEPTEMBER 30, 2018**

<b>EMPLOYEE</b>	<b>NO.</b>	<b>HOURLY RATE (Inc. Payroll Taxes)</b>	<b>OT HOURLY RATE (Inc. Payroll Taxes)</b>	<b>BENEFITS (Not Including Pers) PER HOUR</b>	<b>CalPERS PER HOUR</b>	<b>Wages, Benefits &amp; CalPERS HOURLY</b>
General Manager / Board Secretary	<b>24</b>	\$ 82.20		\$ 18.28	\$ 12.62	\$ 113.10
Office Administrator	<b>1</b>	\$ 44.49		\$ 24.81	\$ 6.97	\$ 76.27
Engineering & Compliance Manager	<b>40</b>	\$ 52.78		\$ 23.06	\$ 3.42	\$ 79.26
Office Manager	<b>9</b>	\$ 48.57		\$ 25.53	\$ 7.61	\$ 81.71
Water Treatment & Supply Supervisor	<b>12</b>	\$ 47.28	\$ 70.91	\$ 23.40	\$ 7.40	\$ 78.08
Water Distribution Supervisor	<b>7</b>	\$ 42.80	\$ 64.19	\$ 19.42	\$ 6.70	\$ 68.92
Water System Operator Lead (Dist)	<b>15</b>	\$ 39.66	\$ 59.49	\$ 22.47	\$ 6.00	\$ 68.13
Water System Operator II	<b>23</b>	\$ 39.07	\$ 58.61	\$ 22.45	\$ 6.12	\$ 67.64
Water System Operator II	<b>38</b>	\$ 34.78	\$ 52.17	\$ 19.56	\$ 2.25	\$ 56.59
Water System Operator I	<b>31</b>	\$ 29.44	\$ 44.17	\$ 20.72	\$ 4.61	\$ 54.77
Water System Operator I	<b>22</b>	\$ 29.65	\$ 44.47	\$ 21.28	\$ 4.64	\$ 55.57
Water Maintenance Worker	<b>18</b>	\$ 29.68	\$ 44.52	\$ 16.72	\$ 4.54	\$ 50.94
Customer Support and Accounting Clerk II	<b>11</b>	\$ 28.85	\$ 43.27	\$ 13.21	\$ 4.37	\$ 46.43
Customer Support and Accounting Clerk I (PT)	<b>33</b>	\$ 25.50	N/A	\$ 0.57	\$ 2.54	\$ 28.61
Customer Support and Accounting Clerk I (PT)	<b>42</b>	\$ 19.46	N/A	\$ 0.29	N/A	\$ 19.75



**Summary of Cash and Investments  
September 2018**

**La Puente Valley County Water District**

Investments	Interest Rate (Apportionment Rate)	Beginning Balance	Receipts/ Change in Value	Disbursements/ Change in Value	Ending Balance
Local Agency Investment Fund	2.16%	\$ 2,527,648.49	\$ -	\$ -	\$ 2,527,648.49
Raymond James Financial Services		\$ 559,321.65	\$ 773.92	\$ (204,939.00)	\$ 355,156.57
<b>Checking Account</b>					
Well Fargo Checking Account (per General Ledger)		\$ 413,948.45	\$ 605,765.11	\$ 406,035.33	\$ 613,678.23
<b>District's Total Cash and Investments:</b>					<b>\$ <u>3,496,483.29</u></b>

**Industry Public Utilities**

Checking Account	Beginning Balance	Receipts	Disbursements	Ending Balance
Well Fargo Checking Account (per General Ledger)	\$ 868,558.85	\$ 172,138.06	\$ 192,640.36	\$ 848,056.55
<b>IPU's Total Cash and Investments:</b>				<b>\$ <u>848,056.55</u></b>

I certify that: (1) all investment actions executed since the last report have been made in full compliance with the Investment Policy as set forth in Resolution No. 237 and, (2) the District will meet its expenditure obligations for the next six (6) months.

*Greg B. Galindo*

, General Manager

Date: 10.17.18

Greg B. Galindo

**La Puente Valley County Water District (Treatment Plant Included)**  
**Statement of Revenues and Expenses**  
**For the Period Ending September 30, 2018**  
**(Unaudited)**

<u>DESCRIPTION</u>	<b>COMBINED YTD 2018</b>	<b>COMBINED BUDGET 2018</b>	<b>75% OF BUDGET</b>	<b>COMBINED 2017 YE</b>
Total Operational Rate Revenues	\$ 1,475,938	\$ 2,031,000	73%	\$ 1,981,901
Total Operational Non-Rate Revenues	1,716,054	2,733,100	63%	\$ 260,272
Total Non-Operating Revenues	176,495	291,100	61%	2,110,238
<b>TOTAL REVENUES</b>	<b>3,368,488</b>	<b>5,055,200</b>	<b>67%</b>	<b>4,092,139</b>
Total Salaries & Benefits	1,480,150	1,959,600	76%	1,287,342
Total Supply & Treatment	1,323,147	1,714,200	77%	1,486,941
Total Other Operating Expenses	241,098	460,100	52%	274,747
Total General & Administrative	260,212	500,500	52%	347,296
<b>TOTAL EXPENSES</b>	<b>3,304,607</b>	<b>4,634,400</b>	<b>71%</b>	<b>3,396,326</b>
<b>TOTAL OPERATIONAL INCOME</b>	<b>63,882</b>	<b>420,800</b>	<b>15%</b>	<b>695,813</b>
Total Capital Improvements	(182,868)	(1,235,000)	15%	(82,810)
Total Capital Outlay	-	(50,000)	0%	(39,731)
<b>TOTAL CAPITAL</b>	<b>(182,868)</b>	<b>(1,285,000)</b>	<b>14%</b>	<b>(122,542)</b>
<b>INCOME (AFTER CAPITAL EXPENSES)</b>	<b>(118,986)</b>	<b>(864,200)</b>	<b>14%</b>	<b>573,272</b>
Grant Proceeds	-	300,000	0%	-
Loan Proceeds	-	500,000	0%	-
Loan Repayment	-	-	0%	-
<b>PROJECTED CHANGE IN CASH</b>	<b>(118,986)</b>	<b>(64,200)</b>	<b>185%</b>	<b>573,272</b>
Non-Cash Items (Dep. & OPEB)	(190,466)	725,000	-26%	(474,668)
<b>NET INCOME (LOSS)</b>	<b>\$ (309,452)</b>	<b>\$ 660,800</b>	<b>-47%</b>	<b>\$ 98,603</b>

**La Puente Valley County Water District**  
**Statement of Revenues and Expenses**  
**For the Period Ending September 30, 2018**  
**(Unaudited)**

Description	September 2018	YTD 2018	ANNUAL BUDGET 2018	75% OF BUDGET	YEAR END 2017
<b>Operational Rate Revenues</b>					
Water Sales	\$ 97,825	\$ 934,176	\$ 1,295,000	72%	\$ 1,251,382
Service Charges	46,411	446,724	608,500	73%	604,424
Surplus Sales	1,622	32,016	38,000	84%	35,769
Customer Charges	2,199	22,913	33,300	69%	33,425
Fire Service	1,330	38,846	55,500	70%	56,096
Miscellaneous Income	115	1,265	700	181%	805
<b>Total Operational Rate Revenues</b>	<b>149,503</b>	<b>1,475,938</b>	<b>2,031,000</b>	<b>73%</b>	<b>1,981,901</b>
<b>Non-Rate Operational Revenues</b>					
Management Fees	46,428	214,284	261,700	82%	194,810
Other O & M Fees	-	-	13,000	0%	65,461
PVOU Service Fees (Labor)	-	8,871	42,900	21%	-
BPOU Service Fees (Labor)	26,670	226,957	278,800	81%	-
IPU Service Fees (Labor)	50,882	514,347	715,800	72%	-
<b>Total Non Rate Operational Revenues</b>	<b>123,979</b>	<b>964,458</b>	<b>1,312,200</b>	<b>73%</b>	<b>260,272</b>
<b>Non Operating Revenues</b>					
Taxes & Assessments	-	121,701	215,000	57%	230,516
Rental Revenue	3,025	26,963	36,100	75%	34,988
Interest Revenue	-	13,768	17,000	81%	27,436
Miscellaneous Income	286	14,064	18,000	78%	76,053
Contributed Capital	-	-	-	N/A	210,130
Developer Fees	-	-	5,000	0%	81,095
<b>Total Non-Operational Revenues</b>	<b>3,311</b>	<b>176,495</b>	<b>291,100</b>	<b>61%</b>	<b>920,490</b>
<b>TOTAL REVENUES</b>	<b>276,793</b>	<b>2,616,892</b>	<b>3,634,300</b>	<b>72%</b>	<b>2,902,391</b>
<b>Salaries &amp; Benefits</b>					
Total District Wide Labor	96,009	866,199	1,142,700	76%	497,621
Directors Fees & Benefits	10,062	86,966	117,300	74%	117,385
Benefits	25,884	229,401	303,100	76%	124,987
OPEB Payments	33,337	112,536	150,000	75%	157,030
Payroll Taxes	7,607	70,116	90,600	77%	43,150
Retirement Program Expense	10,882	114,933	155,900	74%	64,566
<b>Total Salaries &amp; Benefits</b>	<b>183,781</b>	<b>1,480,150</b>	<b>1,959,600</b>	<b>76%</b>	<b>1,004,737</b>
<i>Analysis Purposes Only:</i>					
<i>Offsetting Revenue</i>	<i>(77,551)</i>	<i>(750,175)</i>	<i>(1,057,500)</i>	<i>71%</i>	<i>-</i>
<i>District Labor Net Total</i>	<i>106,230</i>	<i>729,975</i>	<i>902,100</i>	<i>81%</i>	<i>-</i>
<b>Supply &amp; Treatment</b>					
Purchased & Leased Water	200	376,727	379,500	99%	421,870
Power	14,713	118,143	157,000	75%	152,220
Assessments	-	151,559	221,900	68%	132,114
Treatment	446	2,412	6,700	36%	4,079
Well & Pump Maintenance	-	14,957	32,000	47%	11,841
<b>Total Supply &amp; Treatment</b>	<b>15,360</b>	<b>663,799</b>	<b>797,100</b>	<b>83%</b>	<b>722,124</b>
<b>Other Operating Expenses</b>					
General Plant	562	15,557	42,300	37%	29,918
Transmission & Distribution	1,148	65,232	90,500	72%	50,636
Vehicles & Equipment	2,949	17,219	30,300	57%	14,669
Field Support & Other Expenses	3,099	35,472	68,500	52%	30,329
Regulatory Compliance	2,667	28,344	51,500	55%	28,754
<b>Total Other Operating Expenses</b>	<b>10,426</b>	<b>161,825</b>	<b>283,100</b>	<b>57%</b>	<b>154,307</b>

**La Puente Valley County Water District**  
**Statement of Revenues and Expenses**  
**For the Period Ending September 30, 2018**  
(Unaudited)

Description	September 2018	YTD 2018	ANNUAL BUDGET 2018	75% OF BUDGET	YEAR END 2017
<b>General &amp; Administrative</b>					
District Office Expenses	1,623	24,682	61,800	40%	37,453
Customer Accounts	1,619	14,140	20,400	69%	20,907
Insurance	6,394	35,851	69,900	51%	60,490
Professional Services	1,708	100,221	160,000	63%	132,598
Training & Certification	5,097	27,949	37,700	74%	29,068
Public Outreach & Conservation	1,559	29,327	32,500	90%	15,717
Other Administrative Expenses	992	15,067	70,200	21%	29,176
<b>Total General &amp; Administrative</b>	<b>18,991</b>	<b>247,237</b>	<b>452,500</b>	<b>55%</b>	<b>325,409</b>
<b>TOTAL EXPENSES</b>	<b>228,559</b>	<b>2,553,011</b>	<b>3,492,300</b>	<b>73%</b>	<b>2,206,578</b>
<b>TOTAL OPERATIONAL INCOME</b>	<b>48,234</b>	<b>63,882</b>	<b>142,000</b>	<b>45%</b>	<b>695,813</b>
<b>Capital Improvements</b>					
Fire Hydrant Repair/Replacements	-	(10,908)	-	N/A	(178)
Zone 3 Improvements	(55,746)	(137,524)	(220,000)	63%	(7,022)
Service Line Replacements	-	(21,199)	(20,000)	106%	(33,456)
Valve Replacements	-	(7,096)	(10,000)	71%	(13)
Main & 1st Street Building Retrofit	-	(4,080)	(35,000)	12%	-
Phase 1 - Recycled Water System	-	(1,879)	(900,000)	0%	-
SCADA Improvements	-	-	(15,000)	0%	-
Meter Read Collection System	-	(181)	(35,000)	1%	(42,141)
<b>Total Capital Improvements</b>	<b>(55,746)</b>	<b>(182,868)</b>	<b>(1,235,000)</b>	<b>15%</b>	<b>(82,810)</b>
<b>Capital Outlay</b>					
Communications Systems Upgrade	-	-	-	N/A	-
Backhoe	-	-	-	N/A	-
Truck(s)	-	-	(40,000)	0%	(39,731)
Other Equipment	-	-	(10,000)	0%	-
<b>Total Capital Outlay</b>	<b>-</b>	<b>-</b>	<b>(50,000)</b>	<b>0%</b>	<b>(39,731)</b>
<b>TOTAL CAPITAL</b>	<b>(55,746)</b>	<b>(182,868)</b>	<b>(1,285,000)</b>	<b>14%</b>	<b>(122,542)</b>
<b>INCOME (AFTER CAPITAL EXPENSES)</b>	<b>(7,512)</b>	<b>(118,986)</b>	<b>(1,143,000)</b>	<b>10%</b>	<b>573,272</b>
<b>Loan &amp; Debt Repayment</b>					
Recycled Water System (Grant Revenues)	-	-	300,000	0%	-
Recycled Water System (Loan Proceeds)	-	-	500,000	0%	-
<b>CASH DIFFERENCE</b>	<b>(7,512)</b>	<b>(118,986)</b>	<b>(343,000)</b>	<b>35%</b>	<b>573,272</b>
Add Back Capitalized Assets	55,746	182,868	1,285,000	14%	122,542
Less Depreciation Expense	(31,667)	(253,333.33)	(380,000)	67%	(360,602)
Less OPEB Expense - Not Funded	-	-	-	N/A	(71,263)

**Treatment Plant**  
**Statement of Revenues and Expenses**  
**For the Period Ending September 30, 2018**  
**(Unaudited)**

Description	September 2018	YTD 2018	ANNUAL BUDGET 2018	75% OF BUDGET	YEAR END 2017
<b>Non-Rate Operational Revenues</b>					
Reimbursements from CR's	152,738	751,596	\$ 1,420,900	53%	\$ 1,189,748
Miscellaneous Income	-	-	-	N/A	-
<b>Total Non-Rate Operational Revenues</b>	<b>152,738</b>	<b>751,596</b>	<b>1,420,900</b>	<b>53%</b>	<b>1,189,748</b>
<b>Salaries &amp; Benefits</b>					
<i>BPOU TP Labor (1)</i>	26,670	226,957	278,800	81%	282,605
Contract Labor	-	-	-	N/A	-
<b>Total Salaries &amp; Benefits</b>	<b>26,670</b>	<b>226,957</b>	<b>278,800</b>	<b>81%</b>	<b>282,605</b>
<b>Supply &amp; Treatment</b>					
NDMA, 1,4-Dioxane Treatment	27,355	147,197	170,000	87%	195,826.73
VOC Treatment	-	1,756	17,800	10%	25,373.87
Perchlorate Treatment	91,111	324,981	415,000	78%	315,421.42
Other Chemicals	1,810	10,960	16,600	66%	17,829
Treatment Plant Power	21,945	148,830	202,700	73%	174,702.82
Treatment Plant Maintenance	1,452	16,665	75,000	22%	19,347.14
Well & Pump Maintenance	-	8,959	20,000	45%	16,314.93
<b>Total Supply &amp; Treatment</b>	<b>143,673</b>	<b>659,349</b>	<b>917,100</b>	<b>72%</b>	<b>764,816</b>
<b>Other Operating Expenses</b>					
General Plant	983	12,524	45,000	28%	12,311.60
Transmission & Distribution	-	198	-	N/A	1,320.76
Vehicles & Equipment	880	8,237	10,000	82%	10,412.75
Field Support & Other Expenses	-	55	15,000	0%	-
Regulatory Compliance	7,201	58,258	107,000	54%	96,395.21
<b>Total Other Operating Expenses</b>	<b>9,065</b>	<b>79,273</b>	<b>177,000</b>	<b>45%</b>	<b>120,440</b>
<b>General &amp; Administrative</b>					
District Office Expenses	-	-	10,000	0%	-
Insurance	-	4,410	18,000	25%	9,756.84
Professional Services	-	8,564	20,000	43%	12,130.26
<b>Total General &amp; Administrative</b>	<b>-</b>	<b>12,975</b>	<b>48,000</b>	<b>27%</b>	<b>21,887</b>
<b>TOTAL EXPENSES</b>	<b>179,407</b>	<b>978,553</b>	<b>1,420,900</b>	<b>69%</b>	<b>1,189,748</b>
<b>TOTAL OPERATIONAL INCOME</b>	<b>(26,670)</b>	<b>(226,957)</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Capital Outlay</b>					
Scada Computer	-	-	-	N/A	-
<b>Total Capital Outlay</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>N/A</b>	<b>-</b>
Depreciation Expense	(15,000)	(120,000)	(180,000)	67%	(165,346)
<b>Total Non-Cash Items (Dep. &amp; OPEB)</b>	<b>(15,000)</b>	<b>(120,000)</b>	<b>(180,000)</b>	<b>67%</b>	<b>(165,346)</b>
<b>NET INCOME (LOSS)</b>	<b>\$ (41,670)</b>	<b>\$ (346,957)</b>	<b>\$ (180,000)</b>	<b>193%</b>	<b>\$ (165,346)</b>

**INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS**  
**Statement of Revenue and Expenses Summary**  
**For the Period Ending September 30, 2018**  
**(Unaudited)**

<b>DESCRIPTION</b>	<b>September 2018</b>	<b>FISCAL YTD 2018-2019</b>	<b>BUDGET FY 2018-2019</b>	<b>25% OF BUDGET</b>	<b>FY END 2017-2018</b>
Total Operational Revenues	\$ 230,861	\$ 576,366	\$ 2,026,800	28%	\$ 1,920,277
Total Non-Operational Revenues	-	-	30,000	0%	40,307
<b>TOTAL REVENUES</b>	<b>230,861</b>	<b>576,366</b>	<b>2,056,800</b>	<b>28%</b>	<b>1,960,584</b>
Total Salaries & Benefits	52,480	171,261	668,600	26%	644,392
Total Supply & Treatment	14,366	51,173	848,565	6%	607,538
Total Other Operating Expenses	3,901	37,728	171,500	22%	149,475
Total General & Administrative	48,735	55,868	301,568	19%	245,510
Total Other & System Improvements	-	-	120,800	0%	45,748
<b>TOTAL EXPENSES</b>	<b>119,482</b>	<b>316,030</b>	<b>2,111,000</b>	<b>15%</b>	<b>1,692,664</b>
<b>OPERATING INCOME</b>	<b>111,379</b>	<b>260,336</b>	<b>(54,200)</b>	<b>-480%</b>	<b>267,920</b>
<b>NET INCOME (LOSS)</b>	<b>\$ 111,379</b>	<b>\$ 260,336</b>	<b>\$ (54,200)</b>	<b>-480%</b>	<b>\$ 267,920</b>



**INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS**

**Statement of Revenue and Expenses**

**For the Period Ending September 30, 2018**

**(Unaudited)**

DESCRIPTION	September 2018	FISCAL YTD 2018-2019	BUDGET FY 2018-2019	25% OF BUDGET	FY END 2017-2018
<b>Operational Revenues</b>					
Water Sales	\$ 160,133	\$ 393,278	\$ 1,317,750	29.84%	\$ 1,206,751
Service Charges	55,888	149,121	600,000	24.85%	598,493
Customer Charges	1,745	4,645	21,000	22.12%	20,000
Fire Service	13,095	29,322	88,000	33.32%	95,032
<b>Total Operational Revenues</b>	<b>230,861</b>	<b>576,366</b>	<b>2,026,800</b>	<b>28.44%</b>	<b>1,920,277</b>
<b>Non-Operational Revenues</b>					
Contamination Reimbursement	-	-	30,000	0.00%	40,267
Developer Fees	-	-	-	N/A	-
Miscellaneous Income	-	-	-	N/A	39
<b>Total Non-Operational Revenues</b>	<b>-</b>	<b>-</b>	<b>30,000</b>	<b>0.00%</b>	<b>40,307</b>
<b>TOTAL REVENUES</b>	<b>230,861</b>	<b>576,366</b>	<b>2,056,800</b>	<b>28.02%</b>	<b>1,960,584</b>
<b>Salaries &amp; Benefits</b>					
Administrative Salaries	16,058	51,892	186,800	27.78%	190,967
Field Salaries	16,567	57,231	238,000	24.05%	219,465
Employee Benefits	11,227	37,223	149,000	24.98%	143,834
Pension Plan	4,708	15,548	57,440	27.07%	54,946
Payroll Taxes	2,322	7,768	30,360	25.59%	29,215
Workman's Compensation	1,598	1,598	7,000	22.83%	5,964
<b>Total Salaries &amp; Benefits</b>	<b>52,480</b>	<b>171,261</b>	<b>668,600</b>	<b>25.61%</b>	<b>644,392</b>
<b>Supply &amp; Treatment</b>					
Purchased Water - Leased	-	-	377,614	0.00%	326,781
Purchased Water - Other	1,969	4,576	17,500	26.15%	17,128
Power	12,375	40,576	120,000	33.81%	119,441
Assessments	-	5,515	184,752	2.99%	135,945
Treatment	-	-	6,200	0.00%	4,834
Well & Pump Maintenance	22	506	142,500	0.35%	3,409
<b>Total Supply &amp; Treatment</b>	<b>14,366</b>	<b>51,173</b>	<b>848,565</b>	<b>6.03%</b>	<b>607,538</b>
<b>Other Operating Expenses</b>					
General Plant	132	1,770	10,500	16.86%	4,932
Transmission & Distribution	2,246	25,886	64,000	40.45%	54,395
Vehicles & Equipment	-	-	32,000	0.00%	31,553
Field Support & Other Expenses	895	7,911	35,000	22.60%	31,104
Regulatory Compliance	628	2,161	30,000	7.20%	27,491
<b>Total Other Operating Expenses</b>	<b>3,901</b>	<b>37,728</b>	<b>171,500</b>	<b>22.00%</b>	<b>149,475</b>

**INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS**

**Statement of Revenue and Expenses**

**For the Period Ending September 30, 2018**

**(Unaudited)**

<b>DESCRIPTION</b>	<b>September 2018</b>	<b>FISCAL YTD 2018-2019</b>	<b>BUDGET FY 2018-2019</b>	<b>25% OF BUDGET</b>	<b>FY END 2017-2018</b>
<b>General &amp; Administrative</b>					
Management Fee	46,428	46,428	187,568	24.75%	183,891
Office Expenses	683	2,185	21,000	10.40%	17,478
Insurance	-	-	15,000	0.00%	5,667
Professional Services	-	113	45,000	0.25%	15,576
Customer Accounts	1,458	4,175	16,000	26.10%	16,247
Public Outreach & Conservation	14	2,161	15,000	14.41%	3,923
Other Administrative Expenses	153	806	2,000	40.30%	2,727
<b>Total General &amp; Administrative</b>	<b>48,735</b>	<b>55,868</b>	<b>301,568</b>	<b>18.53%</b>	<b>245,510</b>
<b>Other Expenses &amp; System Improvements (Water Operations Fund)</b>					
Transfer to Capital or Expense	-	-	-	N/A	-
Developer Capital Contributions	-	-	-	N/A	-
<b>Net Developer Project Activity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Other System Improvements (Materials)	-	-	-	N/A	-
FH Laterals	-	-	6,300	0.00%	790
Service Line Replacements	-	-	30,000	0.00%	31,693
Valve Replacements	-	-	19,500	0.00%	5,874
Meter Installations - Industry Hills	-	-	-	0.00%	7,391
Meter Read Collection System	-	-	25,000	0.00%	-
SCADA System Assessment & Upgrades	-	-	40,000	0.00%	-
<b>Total Other &amp; System Improvements</b>	<b>-</b>	<b>-</b>	<b>120,800</b>	<b>0.00%</b>	<b>45,748</b>
<b>TOTAL EXPENSES</b>	<b>119,482</b>	<b>316,030</b>	<b>2,111,000</b>	<b>14.97%</b>	<b>1,692,664</b>
<b>OPERATING INCOME</b>	<b>111,379</b>	<b>260,336</b>	<b>(54,200)</b>	<b>N/A</b>	<b>267,920</b>

# STAFF REPORT



Meeting Date: November 13, 2018

To: Honorable Board of Directors

Subject: Los Angeles County Water Agency Mutual Assistance Agreement

**Purpose -** *Enter into a “Mutual Response Agreement - Los Angeles County Water Agency Mutual Assistance Agreement” (Agreement), which established a formal means of for water agencies to provide mutual aid in the event of a localized emergency and/or a catastrophic event.*

**Recommendation -** *Authorize the General Manager to execute the Mutual Response Agreement - Los Angeles County Water Agency Mutual Assistance Agreement.*

**Fiscal Impact -** *No fiscal impact by entering into this Agreement. A potential fiscal impact if the District were to request assistance from another water agency in the event of an emergency.*

**Previous Related Action -** *In June of 2017, the Board approved the Memorandum of Understanding Regarding Public Water Agencies Group (PWAG) Emergency Preparedness Coordinator Position.*

## ***Summary***

In an effort coordinated through the Public Water Agencies Group (PWAG), participating member agencies and mutual water companies have established a more formal means of providing mutual aid in the event of a localized emergency and/or a catastrophic event through an Agreement. The Agreement has been vetted by each of the seventeen PWAG - Emergency Response Members’ staff and also utilizes the best concepts from the California Water/Wastewater Agency Response Network (CalWARN), Water Emergency Response of Los Angeles County (WERLAC) and a previous PWAG draft agreement.

The PWAG Mutual Aid Agreement provides its member agencies with:

- A means for public works agencies to receive mutual aid quickly following a localized or a more wide-spread catastrophic disaster or declared emergencies.
- The resources to respond and recover more quickly from a disaster.
- A mutual assistance program consistent with other statewide mutual aid programs and the Standardized Emergency Management System and the National Incident Management System.
- A forum for developing and maintaining emergency contacts and relationships.
- New ideas from ‘lessons learned in disasters.’

A final draft of the proposed agreement was routed to all PWAG member agencies for comment and a final copy is enclosed for your consideration.

The Agreement will be administered through the Public Water Agencies Group Emergency Preparedness Coordinator and the Emergency Preparedness Coordinator Administrative Committee. If adopted, participation in the Agreement is voluntary. An agency is not obligated to provide or deplete its own resources and should reasonably commit and utilize its own resources to meet its needs before requesting or providing mutual aid. There are no fiscal impacts by becoming a party to this agreement. The member requesting assistance will reimburse the responding PWAG member for personnel, equipment, materials and supplies, and supplemental water, in accordance with the Agreement's terms.

***Recommendation***

District staff recommends the Board authorize the General Manager to execute the Mutual Response Agreement - Los Angeles County Water Agency Mutual Assistance Agreement.

Respectfully Submitted,

*Greg B. Galindo*

General Manager

**Attachments**

- Mutual Response Agreement - Los Angeles County Water Agency Mutual Assistance Agreement

**Mutual Response Agreement**  
**Los Angeles County Water Agency Mutual Assistance Agreement**

This AGREEMENT is made and entered into by the signatories to this Agreement, as listed on Exhibit A hereto, which have adopted and signed this agreement to provide mutual assistance in times of emergency in accordance with the California Emergency Services Act and the California Disaster and Civil Defense Master Mutual Aid Agreement; and to provide reimbursement for equipment, supplies and personnel made available on an emergency basis as specified herein.

Said water utilities are individually referred to herein as a "Member Utility" and all of said water utilities are referred to herein collectively as "the parties."

In consideration of the mutual covenants and agreements hereinafter set forth, the parties agree to provide mutual assistance to one another in times of emergency as follows:

**ARTICLE I.**  
**PURPOSE**

Recognizing that emergencies may require assistance in the form of personnel, equipment, and supplies from outside the area of an emergency's impact, the parties hereby establish an Intrastate Program for Mutual Aid, Response and Assistance. Through this Mutual Aid, Response and Assistance Program (the "Program"), Members coordinate response activities and share resources during emergencies and assist during local emergencies or planned or unplanned outages, as defined herein. This Agreement sets forth the procedures and standards for the administration of the Program among the parties.

**ARTICLE II.**  
**DEFINITIONS**

- A. **Authorized Official** – An employee or officer of a Member Utility who is authorized to:
  - 1. Request assistance;
  - 2. Offer assistance;
  - 3. Refuse to offer assistance or
  - 4. Withdraw assistance under this agreement.
  
- B. **Emergency** – A natural or human caused event or circumstance causing, or imminently threatening to cause, impact to the operations of a Member Utility's system, loss of life, injury to person or property, human suffering, or financial loss, and includes, but is not limited to, fire, flood, severe weather, earthquake, civil disturbance, riot, explosion, drought, volcanic activity, spills or releases of oil or hazardous materials, contamination, utility or transportation emergencies, disease, blight, infestation, intentional acts, sabotage, declaration of war, or other conditions which is, or is likely to be, beyond the control of the services, personnel, equipment, and facilities of a Member Utility and requires mutual assistance.
  
- C. **Members or Member Utilities** – Any public or private water utility that manifests intent to participate in the Program by executing this Agreement.

1. **Associate Member** – Any non-utility participant, approved by the Committee defined in Article III below, that provides a support role for the Program.
  2. **Requesting Member** – A Member Utility who requests aid or assistance under the Program.
  3. **Responding Member** – A Member Utility that responds to a request for aid or assistance under the Program.
  4. **Non-Responding Member** - A Member Utility or Associate Member that does not provide aid or assistance during a Period of Assistance under the Program.
- D. **Confidential Information** - Any document shared with any signatory of this Agreement that is marked confidential, including but not limited to any map, report, notes, papers, opinion, or e-mail which relates to the system vulnerabilities of a Member Utility or Associate Member.
- E. **Period of Assistance** – A specified period of time when a Responding Member assists a Requesting Member. The period commences when personnel, equipment, or supplies depart from Responding Member’s facility and ends when the resources return to their facility (portal to portal). All protections identified in this Agreement apply during this period. The specified Period of Assistance may occur during response to or recovery from an Emergency, as previously defined, or during an Outage, as defined herein.
- F. **National Incident Management System (NIMS)** - A national, standardized approach to incident management and response that sets uniform processes and procedures for emergency response operations.
- G. **Standardized Emergency Management System (SEMS)** - A standardized approach to field command and jurisdictional management and response set forth by State of California Code of Regulations for multi-agency or multi-jurisdictional response to an emergency.
- H. **Outage** – A period of time where a Member’s water supply is interrupted to the extent that the interruption jeopardizes the health and safety of the Member’s customers. An Outage is “planned” when the Member is given at least three (3) days prior notice of the interruption in supply. An Outage is “unplanned” when the Outage occurs without at least three (3) days prior notice of the interruption in supply, including when the Outage occurs unexpectedly.

### **ARTICLE III. ADMINISTRATION**

The Program shall be administered through the Public Water Agencies Group Emergency Preparedness Coordinator (the “Coordinator”) and the Emergency Preparedness Coordinator Administrative Committee (the “Committee”).

The purpose of the Committee is to provide local coordination of the Program before, during, and after an Emergency or Outage. The Committee shall meet as frequently as necessary, but at least quarterly, to address Program issues and review emergency preparedness and response procedures. The Committee will be made up of at least five (5) representatives selected from among the Member Utilities. The Committee members shall work with the

Coordinator to plan and coordinate emergency planning and response activities for the Program, and shall ensure that all Member Utilities are informed of such activities and have the opportunity to participate in all related planning and training activities.

#### **ARTICLE IV. PROCEDURES**

- A. In coordination with the Committee, emergency management and public health systems of the state, the Committee and Coordinator shall develop operational and planning procedures for the Program. These procedures shall be consistent with the Standardized Emergency Management System (SEMS), the National Incident Management System (NIMS) and this Agreement. These procedures shall be reviewed at least annually and updated as needed by the Committee and Coordinator.
- B. Requests for emergency assistance or assistance with any Outage under this Agreement shall be directed to the appropriate Authorized Official(s) from the list of Members.

#### **ARTICLE V. REQUESTS FOR ASSISTANCE**

In general, assistance will be in the form of resources, such as equipment, supplemental water supplies, other supplies, and personnel. Assistance shall be given only when a Responding Member determines that its own needs can be met while rendering assistance. The execution of this Agreement shall not create any duty to respond on the part of any party hereto. A potential Responding Member shall not be held liable for failing to provide assistance. A potential Responding Member has the absolute discretion to decline to provide any requested assistance.

- A. **Responsibility-** Members shall identify an Authorized Official and alternates; provide contact information including 24-hour access and maintain resource information that may be available from the utility for mutual aid and assistance response. Such contact information shall be updated annually or when changes occur, and be promptly provided to the Coordinator.
- B. **Member Request-** In the event of an Emergency or Outage (planned or unplanned), a Member's Authorized Official may request mutual aid and assistance from a participating Member. Requests for assistance can be made orally or in writing. When made orally, the request for personnel, equipment, supplemental water supplies and other supplies shall be prepared in writing as soon as practicable. Requests for assistance shall be directed to the Authorized Official of the participating Member. Specific protocols for requesting aid shall be provided in the required procedures to be established by the Committee pursuant to Article IV hereof.
- C. **Response to a Request for Assistance** – Members are not obligated to respond to a Requesting Member's request. After a Member receives a request for assistance, that Member's Authorized Official evaluates whether or not to respond, whether resources are available to respond, or if other circumstances would hinder response. Following the evaluation, that Member's Authorized Representative shall inform, as soon as possible, the Requesting Member whether that Member will respond. If the Member is willing and able to

provide assistance, the Member shall inform the Requesting Member about the type of available resources and the approximate arrival time of such assistance. If a Member determines it cannot respond to a request for assistance, that Member shall not be responsible for any consequences associated with its failure to respond.

- D. Discretion of Responding Member's Authorized Official** – Execution of this Agreement does not create any duty for a Member to respond to a request for assistance. When a Member receives a request for assistance, the Authorized Official shall have sole and absolute discretion as to whether or not to respond, or the availability of resources to be used in such response. An Authorized Member's decisions on the availability of resources shall be final.

## **ARTICLE VI. RESPONSE COORDINATION**

When providing assistance under this Agreement, the Requesting Member and Responding Member shall be organized and shall function under the Standard Emergency Management System and National Incident Management System protocols and procedures.

- A. **Personnel**- Responding Member retains the right to identify the specific employees to be provided to a Requesting Member and the resources that are available.
- B. **Control** – While employees so provided may be under the supervision of the Responding Member, the Responding Member's employees come under the direction and control of the Requesting Member, consistent with the NIMS Incident Command System to address the needs identified by the Requesting Member. The Requesting Member's Authorized Official shall coordinate response activities with the designated supervisor of the Responding Member(s). Whenever practical, Responding Member personnel must be self-sufficient for up to 72 hours. The Responding Member's designated supervisor(s) must keep accurate records of work performed by Responding Member's personnel during the specified Period of Assistance.
- C. **Food and Shelter** – When possible, the Requesting Member shall supply reasonable food and shelter for Responding Member personnel. If the Requesting Member is unable to provide food and shelter for Responding Member personnel, the Responding Member's designated supervisor is authorized to secure the resources necessary to meet the needs of its personnel. Except as provided below, the cost for such resources must not exceed the state per diem rates for that area. To the extent food and shelter costs exceed the state per diem rates for the area, the Responding Member must demonstrate that the additional costs were reasonable and necessary under the circumstances. Unless otherwise agreed to in writing, the Requesting Member remains responsible for reimbursing the Responding Member for all reasonable and necessary costs associated with providing food and shelter, if such resources are not provided.
- D. **Communication** – The Requesting Member shall provide Responding Member personnel with radio equipment as available, or radio frequency information to program existing radios, in order to facilitate communications with local responders and utility personnel.
- E. **Status** - Unless otherwise provided by law, the Responding Member's officers and employees retain the same privileges, immunities, rights, duties and benefits as provided in



their respective jurisdictions; and shall remain officers and employees, as applicable, of the Responding Member.

- F. **Licenses and Permits** – To the extent permitted by law, Responding Member personnel that hold licenses, certificates, or permits evidencing professional, mechanical, or other skills shall be allowed to carry out activities and tasks relevant and related to their respective credentials during the specified Period of Assistance.
- G. **Right to Withdraw Resources** - The Responding Member's Authorized Official retains the right to withdraw some or all of its resources at any time for any reason in the Responding Member's sole and absolute discretion. Notice of intention to withdraw must be communicated to the Requesting Member's Authorized Official as soon as is practicable under the circumstances.

## **ARTICLE VII.**

### **COST- REIMBURSEMENT**

Unless otherwise mutually agreed in whole or in part by both parties, the Requesting Member shall reimburse the Responding Member for each of the following categories of costs incurred while providing aid and assistance during the specified Period of Assistance.

- A. **Personnel** – Responding Member(s) will make such employees as are willing to participate available to Requesting Member at Requesting Member's expense equal to any Responding Member's full cost, i.e., equal to the employee's applicable salary or hourly wage, plus fringe benefits and overhead, and consistent with Responding Member's collective bargaining agreements, if applicable, or other conditions of employment. All costs incurred for work performed during the specified Period of Assistance will be included. The Requesting Member shall be responsible for all direct and indirect labor costs.
- B. **Equipment** – Use of equipment, such as construction equipment, vehicles, tools, pumps and generators, shall be at a Responding Member's current equipment rate and subject to the following conditions: The Requesting Member shall reimburse the Responding Member for the use of equipment during the specified Period of Assistance, including, but not limited to, reasonable rental rates, all fuel, lubrication, maintenance, transportation, and loading/unloading of loaned equipment. All equipment shall be returned to the Responding Member as soon as is practicable and reasonable under the circumstances.
  - (a) At the option of Responding Member, equipment may be provided with an operator.
  - (b) Equipment shall be returned to Responding Member within 24 hours after receipt of an oral or written request for return.
  - (c) During the Period of Assistance, Requesting Member shall, at its own expense, supply all fuel, lubrication and maintenance for furnished equipment; provided that Requesting Member shall obtain Responding Member's consent before performing any such maintenance.
  - (d) Responding Member's cost related to the transportation, handling and loading/unloading of equipment shall be chargeable to Requesting Member.

(e) In the event equipment is damaged while being dispatched to Requesting Member, or while in the custody and use of Requesting Member, Requesting Member shall reimburse Responding Member for the reasonable cost of repairing said damaged equipment. If the equipment cannot be repaired, then Requesting Member shall reimburse Responding Member for the cost of replacing such equipment with equipment that is of at least equal capability as determined by the Responding Member. If Responding Member must lease a piece of equipment while Requesting Member equipment is being repaired or replaced, Requesting Member shall reimburse Responding Member for such lease costs.

**C. *Materials and Supplies*** – The Requesting Member must reimburse the Responding Member in kind or at actual replacement cost, plus handling charges, for use of expendable or non-returnable supplies. The Responding Member must not charge direct fees or rental charges to the Requesting Member for other supplies and reusable items that are returned to the Responding Member in a clean, damage-free condition. Reusable supplies that are returned to the Responding Member with damage must be treated as expendable supplies for purposes of cost reimbursement.

**D. *Supplemental Water Supplies*** – The Responding Member will provide the Requesting Member with a bill showing the amount of water delivered to the Requesting Member. Water will be billed at the highest rate incurred for imported water by the Responding Member, or as the Responding Member may otherwise agree.

**E. *Payment Period*** – The Responding Member must provide an itemized bill to the Requesting Member for all expenses incurred by the Responding Member while providing assistance under this Agreement. The Responding Member must send the itemized bill not later than ninety (90) days following the end of the Period of Assistance. The Responding Member may request additional periods of time within which to submit the itemized bill, and Requesting Member shall not unreasonably withhold consent to such request. The Requesting Member must pay the bill within 60 days following the billing date. The Requesting Member may request additional periods of time within which to pay the itemized bill and Responding Member shall not unreasonably withhold consent to such request, provided, however, that all payment shall occur not later than one-year after the date a final itemized bill is submitted to the Requesting Member.

**E. *Records*** - Each Requesting Member and its duly authorized representatives shall have access to a Responding Member's books, documents, notes, reports, papers and records which are directly pertinent to this Agreement for the purposes of reviewing the accuracy of a cost bill or making a financial, maintenance or regulatory audit. To the extent it deems necessary, each Responding Member and its duly authorized representatives shall have access to a Requesting Member's books, documents, notes, reports, papers and records which are directly pertinent to this Agreement. Such records shall be maintained for at least three (3) years or longer where required by law and as needed for federal reimbursement practices.

## **ARTICLE VIII.** **ARBITRATION**

If any controversy or claim arises out of, or relates to, the Agreement, including, but not limited to an alleged breach of the Agreement, the disputing Members shall first attempt to resolve the dispute by negotiation, followed by mediation and finally shall be settled by arbitration in

accordance with the Rules of the American Arbitration Association. Judgment on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction.

**ARTICLE IX.**  
**REQUESTING MEMBER'S DUTY TO INDEMNIFY**

Pursuant to Government Code Section 895.4, and subject to Article X, Requesting Member shall assume the defense of, fully indemnify and hold harmless Responding Member, its Directors, officers, employees and agents, from all claims, loss, damage, injury and liability of every kind, nature and description, directly or indirectly arising from the Requesting Member's work hereunder, including, but not limited to, negligent or wrongful use of equipment, supplies or personnel provided to Requesting Member or faulty workmanship or other negligent acts, errors or omissions by a Responding Member, or by personnel provided to Requesting Member, from the time assistance is requested and rendered until the assistance is returned to Responding Member's control, portal to portal.

**ARTICLE X.**  
**SIGNATORY INDEMNIFICATION**

In the event of a liability, claim, demand, action or proceeding, of whatever kind or nature arising out of the rendering of assistance through this Agreement, the parties involved in rendering or receiving assistance agree to indemnify and hold harmless all Members whose only involvement is the execution and approval of this Agreement, in the transaction or occurrence which is the subject of such claim, action, demand or other proceeding. Such indemnification shall include indemnity for all claims, demands, liability, damages and costs, including reasonable attorneys' fees and other costs of defense, for injury, property damage and workers compensation.

**ARTICLE XI.**  
**WORKER'S COMPENSATION CLAIMS**

The Responding Member is responsible for providing worker's compensation benefits and administering worker's compensation for its employees. The Requesting Member is responsible for providing worker's compensation benefits and administering worker's compensation for its employees.

**ARTICLE XII.**  
**NOTICE**

Each party hereto shall give to the others prompt and timely written notice of any claim made or any suit instituted coming to its knowledge, which in any way, directly or indirectly, contingently or otherwise, affects or might affect them, and each Member shall have the right to participate in the defense of the same, as it considers necessary to protect its own interests.

**ARTICLE XIII.  
INSURANCE**

Members of this Agreement shall maintain an insurance policy or maintain a self insurance program that covers activities that it may undertake by virtue of membership in the Program, including, but not limited to, worker's compensation and commercial general liability insurance, and insurance on property, vehicles and equipment.

**ARTICLE XIV.  
CONFIDENTIAL INFORMATION**

To the extent allowed by law, any Member or Associate Member shall maintain in the strictest confidence and shall take all reasonable steps necessary to prevent the disclosure of any Confidential Information provided to it by another Member pursuant to this Agreement. If any Member, Associate Member, or third party requests or demands, by subpoena or otherwise, that a Member or Associate Member disclose any Confidential Information provided to it under this Agreement, the Member or Associate Member shall immediately notify the owner of the Confidential Information and shall take all reasonable steps necessary to prevent the disclosure of any Confidential Information by asserting all applicable rights and privileges with respect to such information and shall cooperate fully in any judicial or administrative proceeding relating thereto.

**ARTICLE XV.  
EFFECTIVE DATE**

This Agreement shall take effect for a new party immediately upon its execution by said party.

**ARTICLE XVI.  
WITHDRAWAL**

Any party may terminate its participation in this Agreement by written notice to the Coordinator. Withdrawal takes effect 60 days after the appropriate official receives notice. Withdrawal from this Agreement shall in no way affect a Requesting Member's duty to reimburse a Responding Member for cost incurred during a Period of Assistance, which duty shall survive such withdrawal.

**ARTICLE XVII.  
MODIFICATION**

No provision of this Agreement may be modified, altered or rescinded by individual parties to the Agreement. Modifications to this Agreement require a simple majority vote of Members then participating under this Agreement. The Committee will notify all parties of modifications to this Agreement in writing and those modifications shall be effective upon 60 days' written notice to the parties.

**ARTICLE XVIII.  
SEVERABILITY**

If any term or provision of this Agreement is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be

affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular term or provision held to be invalid.

**ARTICLE XIX.**  
**PRIOR AGREEMENTS**

This Agreement supersedes all prior Agreements between Members to the extent that such prior Agreements are inconsistent with this Agreement.

**ARTICLE XX.**  
**PROHIBITION ON THIRD PARTIES AND ASSIGNMENT OF RIGHTS/DUTIES**

This Agreement is for the sole benefit of the Members and no person or entity shall have any rights under this Agreement as a third-party beneficiary. Assignments of benefits and delegations of duties created by this Agreement are prohibited and any such attempted assignment or delegation shall have no effect.

**ARTICLE XXI.**  
**TORT CLAIMS**

This Agreement in no way abrogates or waives any immunity or defense available under California law.

**ARTICLE XXII.**  
**INTRASTATE AND INTERSTATE MUTUAL AID AND ASSISTANCE PROGRAMS**

To the extent practicable, Members retain the right to participate in mutual aid and assistance activities conducted under the State of California Intrastate WARN Mutual Aid and Assistance Program and the Interstate Emergency Management Assistance Compact (EMAC) and similar programs.

Now, therefore, in consideration of the covenants and obligations set forth in this Agreement, the Water Utility listed here manifests its intent to be a Member Utility in the Program by executing this Agreement on this \_\_\_\_\_ day of \_\_\_\_\_ 2018.

Member: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_  
Please Print Name

By: \_\_\_\_\_

Title \_\_\_\_\_

\_\_\_\_\_  
Please Print Name

Approved as to form and legality

By: \_\_\_\_\_  
Attorney for Public or Private Utility

\_\_\_\_\_  
Please Print Name

# Memo



To: Honorable Board of Directors  
From: Roy Frausto, Engineering & Compliance  
Meeting Date: November 13, 2018  
Re: Engineering & Compliance Report – October 2018

## CAPITAL PROJECTS

1. LPVCWD Recycled Water Project –
  - Staff is still working with Upper District to discuss options to move the project forward. Staff will provide additional information through a verbal report.
2. LPVCWD PVOU IZ Project and SZ-South Project –
  - Staff received a revised draft copy of the Section 4 document of the 97-005 report for the PVOU IZ treatment facility on October 15, 2018. Staff will review and provide comments as necessary.
  - Staff and District Counsel reviewed and commented on a draft term sheet with respect to an Operation Services Agreement for the SZ PVOU treatment system. Staff provided a reline draft of the agreement to Northrop on October 31, 2018.
  - Staff attended the quarterly PVOU Stakeholder meeting on October 30, 2018.
3. LPVCWD Banbridge Pump Station Retrofit Project –
  - Doty Bros. began construction of the pump station on August 20, 2018 and has completed all of the construction line items under their scope of work. In addition, Hunter Electric completed the electrical work under their scope of work on October 19, 2018.
  - On November 2, 2018, staff and the pump manufacturer representative powered the pump station and tested the pumps at their design capacity. Staff is happy to report that both pumps successfully pumped at their design rate and performed as expected. After final completion of minor aesthetic items, staff will issue the remaining balance to the Lievanos with respect to the access and license agreement and finalize the AS-BUILT drawing of the pump station for their records.
4. CIWS Starhill Lane & 3<sup>rd</sup> Ave. Waterline Improvement Project – Staff provided and RFP document to city staff to procure plans and specifications for the design of the project.

## DEVELOPMENTS

1. CIWS: 13814 Valley Blvd (McDonalds) – Staff installed a 4-inch fire service and a 2-inch domestic service in support of an existing McDonalds restaurant building retrofit.
2. CIWS: 13551, 13553 and 13563 Don Julian Rd. (3 units) – Staff is scheduled to install three (3) new 1-inch water services to support accessory dwelling developments to three existing homes.
3. LPVCWD: 747 Del Valle Development – 15 meters were installed in October to support the ongoing construction of the 45 housing units.

4. LPVCWD: Star Theatre Property (22 Condo Development) – A focused EIR was anticipated to be submitted for review during September 2018; however, the EIR has not been received for review.
5. LPVCWD: 15921 Sierra Vista Court – Currently, City staff advised that a proposed grading plan was approved along with the retaining wall. It is anticipated that the request to construct 5 water services in support of the 5-unit development will be received in the next coming months.

#### SPECIAL/OTHER PROJECTS

1. Nitrate Levels – Provided the current levels (See **Enclosure 1**) of Nitrate at the District’s well field, staff is moving forward with acquiring a preliminary design report to evaluate the different treatment options for Nitrate. Staff met with representatives from Microvi to discuss the benefits of biological treatment on October 19, 2018.

In addition, staff met with the CR’s on October 26, 2018, to discuss first steps toward the addition Nitrate treatment.

2. LPVCWD Sanitary Survey – On October 29, 2018, the State Water Resources Control Board Division of Drinking Water (DDW) conducted their sanitary survey of our District’s water system. During the inspection, no significant deficiencies were noted.
3. 2017-18 Treatment Plant Technical Performance Report – Staff finalized and distributed the 17/18 Treatment Plant Technical Performance Report to all respective parties on November 7, 2018. A copy of the report is enclosed herein as **Enclosure 2**.
4. SEMS/NIMS Training – All staff participated in a Standardized Emergency Management System (SEMS) and National Incident Management System (NIMS) training in October through the PWAG EP Coordinator to improve our District’s response effort in the event of an emergency or disaster.
5. School (K-12) Lead Sampling – Staff reached out and met with the Basset Unified School District representative on October 19, 2018, to discuss lead sampling at Don Julian Elementary to comply with AB 746 by July 1, 2019. Staff will continue working with remaining schools to develop sampling plans to test for lead and provide sample results accordingly.
6. BPOU OM & M Plan Update – Provided the proposed changes to treatment plant operations and the current levels of Nitrate, the current OM & M plan will need to be updated to reflect all proposed changes in operation.
7. CIWS Permit Amendment – Staff provided the engineering and technical report to expedite the issuance of a permit amendment to DDW staff on April 30, 2018. In addition, staff received a final request from DDW for updated system data sheets. Staff provided the updated data sheets on October 15, 2018. The final executed permit amendment is anticipated to be received during Fall of 2018.
8. BPOU OM & M Plan Update – Provided the proposed changes to treatment plant operations and the current levels of Nitrate, the current OM & M plan will need to be updated to reflect all proposed changes in operation.

#### *Enclosures*

- *Enclosure 1: October/November 2018 Nitrate Levels*
- *Enclosure 2: 2017-18 Treatment Plant Technical Performance Report*





## **Enclosure 1**

### **October/November 2018 Nitrate Levels**

**SP 6 and SP 10  
Nitrate Concentrations  
EPA Method 300.0  
MCL = 10 mg/l**

Nitrate Concentrations September/October 2018				
Date	SP 10	SP 6	Well	Comments
10/1/18	6.8	6.8	Well 2	
10/4/18	7.9	7.9	Well 5	
10/8/18	7.8	7.8	Well 5	
10/11/18	7.9	7.9	Well 5	
10/15/18	7.9	7.9	Well 5	
10/18/18	<b>8.0</b>	<b>8.1</b>	Well 5	
10/23/18	<b>8.0</b>	<b>8.0</b>	Well 5	
10/25/18	7.9	7.9	Well 5	
10/29/18	7.8	7.8	Well 5	
11/1/18	5.6	5.3	Well 5	New Resin Change Out
<b>AVERAGE</b>	7.6	7.5		
<b>MINIMUM</b>	5.6	5.3		
<b>MAXIMUM</b>	8.0	8.1		

NOTES:

All units reported in milligrams per liter (mg/l)

MCL = Maximum Contaminant Level



112 N First St.  
La Puente, CA 91744

**Enclosure 1**



## **Enclosure 2**

# **2017-18 Treatment Plant Technical Performance Report**



# **TECHNICAL PERFORMANCE REPORT**

**FOR**

## **LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT FACILITY**

**LOCATED AT**

**1695 PUENTE AVENUE  
BALDWIN PARK, CALIFORNIA**

### **ANNUAL REPORT 2017-2018**

**Submitted: November 2018**

# 2017-2018 TECHNICAL PERFORMANCE REPORT

November 2018

In Compliance with Permit Provision #55 of  
Permit Amendment 1910060PA-002

Prepared By



---

Roy Frausto  
Engineering and Compliance Manager

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## **SECTION I INTRODUCTION**

### **I.1 Background**

The State Water Resources Control Board, Division of Drinking Water (DDW) issued Permit Amendment No. 1910060PA-002 (Permit) to La Puente Valley County Water District (LPVCWD) on June 15, 2010, to allow the operation of a new single-pass ion exchange treatment system (that replaced the re-generable resin ion exchange treatment system) at its treatment facility (Treatment Facility) located at 1695 Puente Avenue in the City of Baldwin Park. LPVCWD began operation of the new single-pass ion exchange treatment system on July 30, 2010 (see **Diagram 1** for Treatment Facility Process Flow).

### **I.2 Permit Requirements**

Under Permit Provision No. 55, LPVCWD is required to prepare an annual report for the DDW that provides an evaluation and technical review of the water quality data gathered from the upgradient surveillance wells and discuss any changes in the characteristics of the plume and the possible impacts on the Treatment Facility.

The purpose of this report is to satisfy LPVCWD's permit provision No. 55 for the annual report period of August 1, 2017 – July 31, 2018.

### **I.3 Certified Operators**

Conforming with Permit Provision No. 7, LPVCWD operates the Treatment Facility with treatment operators who are certified in accordance with the regulations relating to Certification of Water Treatment Facility Operation, Title 17, and California Code of Regulations. In addition, DDW requires the Chief Operator(s) and Shift Operator(s) of the Treatment Facility to have, at a minimum, Grade T3 and T2 certifications, respectively.



The following is a list of operators who are responsible for the operation of the Treatment Facility.

<b>Operator</b>	<b>Certificate</b>	<b>DDW Certification Number</b>	<b>Contact Information</b>
<b>Greg B. Galindo</b> General Manager	T4 D4	21619 7818	626-330-2126 <a href="mailto:ggalindo@lapuentewater.com">ggalindo@lapuentewater.com</a>
<b>Roy Frausto</b> Engineering & Compliance Manager	T2 D2	37859 43171	626-330-2126 <a href="mailto:rfrausto@lapuentewater.com">rfrausto@lapuentewater.com</a>
<b>Cesar A. Ortiz</b> Water Treatment & Supply Supervisor	T4 D4	25853 28983	626-330-2126 <a href="mailto:cortiz@lapuentewater.com">cortiz@lapuentewater.com</a>
<b>Keith Bowman</b> Distribution Supervisor	T2 D3	25089 17010	626-330-2126 <a href="mailto:kbowman@lapuentewater.com">kbowman@lapuentewater.com</a>
<b>William D. Clark</b> Water System Operator II	T3 D4	26564 27481	626-330-2126 <a href="mailto:dclark@lapuentewater.com">dclark@lapuentewater.com</a>
<b>Miguel A. Molina</b> Lead Water System Operator	T2 D4	28395 29331	626-330-2126 <a href="mailto:mmolina@lapuentewater.com">mmolina@lapuentewater.com</a>
<b>Santiago E. Loera</b> Water System Operator II	T2 D4	31818 34150	626-330-2126 <a href="mailto:sloera@lapuentewater.com">sloera@lapuentewater.com</a>
<b>Albert J. Vazquez</b> Water System Operator I	T2 D2	30470 36173	626-330-2126 <a href="mailto:avazquez@lapuentewater.com">avazquez@lapuentewater.com</a>
<b>Arturo B. Briseno</b> Water System Operator I	T2 D2	30764 34543	626-330-2126 <a href="mailto:abriseno@lapuentewater.com">abriseno@lapuentewater.com</a>

## SECTION II

### WATER QUALITY

The water quality section of this report discusses raw water quality of source water wells, provides an evaluation and technical review of water quality from the upgradient surveillance wells, and discusses any changes in the characteristics of the plume that may pose an impact on the Treatment Facility. Please note for purposes of numerical analysis, sampling results listed as 0 µg/l (or any other unit of measure) in this report were not detected at or above the respective water quality analyses minimum detection limit.

#### II.1 Source Water

In accordance with Permit Provision No. 40 and 41 and the approved OM&M water quality monitoring plan, raw water samples are collected at least monthly from primary Well No. 5 (when in operation), and at least quarterly from Wells No. 2 and No. 3 at Sample Port 1 (SP-1). Samples are analyzed (Wells sampled quarterly are placed into service for a minimum of 2 hours before samples are collected) for VOCs, perchlorate, nitrate, NDMA, and 1,4-dioxane. In addition, 1,2,3-trichloropropane (1,2,3-TCP) is analyzed as part of the annual requirement as discussed in Section II.4 below. Figures 1A through 8A show water quality trends for samples collected at Wells No. 2, No. 3, and No. 5 for trichloroethylene (TCE), tetrachloroethylene (PCE), carbon tetrachloride (CTC), 1,2-dichloroethane (1,2-DCA), perchlorate, nitrate, NDMA, and 1,4-dioxane, respectively, from August 1, 2017 through July 31, 2018. Long-term trends since the Treatment Facility began operation (March 1, 2001) are shown on Figures 1B through 8B.

##### II.1.1 TCE Raw Water Quality (MCL = 5 µg/l)

**Figure 1A** shows a slight decreasing trend in raw water TCE concentrations for Wells No. 2, No. 3 and No. 5. As listed on **Table 2**, Well No. 2 has an average TCE concentration of 56.1 µg/l with a max of 70 µg/l and a min of 46 µg/l, Well No. 3 has an average

concentration of 0.4 µg/l with a max of 1.2 µg/l and a min of 0 µg/l, and Well No. 5 has an average concentration of 11.8 µg/l with a max of 18 µg/l and a min of 9.5 µg/l.

Comparing these trends and data results to the historical data shown on **Figure 1B**, long-term TCE concentrations in raw water appeared to be on an increasing trend for Well No. 2 through 2009, however in 2012, concentrations stabilized and then began (and continue) decreasing since 2013. In addition, **Figure 1B** shows Wells No. 3 and No. 5 on a continued decreasing trend.

### **II.1.2 PCE Raw Water Quality (MCL = 5 µg/l)**

**Figure 2A** shows a slight decreasing trend in raw water PCE concentrations for Well No. 2 and a stabilized trend for Wells No. 3 and No. 5. As listed on **Table 3**, Well No. 2 has an average PCE concentration of 3.0 µg/l with a max of 3.4 µg/l and a min of 2.5 µg/l, Well No. 3 has an average concentration of 0 µg/l with a max of 0 µg/l and a min of 0 µg/l, and Well No. 5 has an average concentration of 1.0 µg/l with a max of 1.6 µg/l and a min of 0.8 µg/l.

Comparing these trends and data results to the historical data shown on **Figure 2B**, long-term PCE concentrations in raw water appeared to be on an increasing trend for Well No. 2 through 2012, however in 2013, concentrations began to stabilize and continue on a steady trend. In addition, **Figure 2B** shows Wells No. 3 levels consistently at ND levels and Well No. 5 on a decreasing trend.

### **II.1.3 CTC Raw Water Quality (MCL = 0.5 µg/l)**

**Figure 3A** shows a stabilized trend in raw water CTC concentrations for Wells No. 2 and No. 3, and a decreasing trend for Well No. 5. As listed on **Table 4**, Well No. 2 has an average CTC concentration of 2.2 µg/l with a max of 3.0 µg/l and a min of 1.5 µg/l, Well No. 3 has an average concentration of 0 µg/l with a max of 0 µg/l and a min of 0 µg/l, and

Well No. 5 has an average concentration of 0.2 µg/l with a max of 0.6 µg/l and a min of 0 µg/l.

Comparing these trends and data results to the historical data shown on **Figure 3B**, long-term CTC concentrations in raw water appear to be on a decreasing trend for Wells No. 2 and No. 5. Additionally, Well No. 3 has maintained Non-Detect levels since early 2011.

#### **II.1.4 1,2-DCA Raw Water Quality (MCL = 0.5 µg/l)**

**Figure 4A** shows a stabilized trend in raw water 1,2-DCA concentrations for Wells No. 3 and No. 5, and a slight decreasing trend for Well No. 2. As listed on **Table 5**, Well No. 2 has an average 1,2-DCA concentration of 1.5 µg/l with a max of 1.6 µg/l and a min of 1.2 µg/l, Well No. 3 has an average concentration of 0 µg/l with a max of 0 µg/l and a min of 0 µg/l, and Well No. 5 has an average concentration of 0 µg/l with a max of 0.5 µg/l and a min of 0 µg/l.

Comparing these trends and data results to the historical data shown on **Figure 4B**, long-term 1,2-DCA concentrations in raw water appeared to be on an increasing trend for Well No. 2 through 2010; however in 2011, concentrations stabilized and began a decreasing trend since 2013. In addition, **Figure 4B** shows Well No. 5 on a decreasing trend towards Non-Detect levels and Well No. 3 has maintained Non-Detect levels since early 2009.

#### **II.1.5 Perchlorate Raw Water Quality (MCL = 6 µg/l)**

**Figure 5A** shows slight decreasing trends in raw water Perchlorate concentrations for Wells No. 2, No. 3 and No. 5. As listed on **Table 6**, Well No. 2 has an average Perchlorate concentration of 33.3 µg/l with a max of 38 µg/l and a min of 20 µg/l, Well No. 3 has an average concentration of 7 µg/l with a max of 9.3 µg/l and a min of 6 µg/l, and Well No. 5 has an average concentration of 14.7 µg/l with a max of 18 µg/l and a min of 9.2 µg/l.

Comparing these trends and data results to the historical data shown on **Figure 5B**, long-term Perchlorate concentrations in raw water appeared to be on an increasing trend for Well No. 2 through 2011, however in 2012, concentrations stabilized and presently continue on a decreasing trend. In addition, **Figure 5B** shows Wells No. 3 on and No. 5 on decreasing trends that have presently stabilized.

#### **II.1.6 Nitrate Raw Water Quality (MCL = 45 mg/l as NO<sub>3</sub>: MCL = 10 mg/l as N)**

**Figure 6A** shows a slightly increasing trends in raw water Nitrate concentrations for Wells No.3, No. 5 and No. 2. As listed on **Table 7**, Well No. 2 has an average Nitrate (as N) concentration of 6.8 mg/l with a max of 7.7 mg/l and a min of 6.2 mg/l, Well No. 3 has an average concentration of 8 mg/l with a max of 9.4 mg/l and a min of 7.6 mg/l, and Well No. 5 has an average concentration of 7.6 mg/l with a max of 8.2 mg/l and a min of 7.0 mg/l. It should be noted that Well No. 3 raw water is always blended with Well No. 2 water when in operation.

During early 2018, the District identified that Nitrate levels at Wells 5, 3 and 2 have been on an unusual accelerated increasing trend that resulted in average treated water near 80% of the 10 mg/l MCL. As previously reported, Well No. 3 has the highest Nitrate concentrations; however, water from Well 3 is always blended with water from Well 2 when in operation. As a result, historical SP-10 results have always (with the exception of a few outliers) been below 8 mg/l. Currently, SP-10 results have been averaging near 8 mg/l during the later months of the first half of 2018. To dismiss the possibility of a QA/QC issue with our primary lab (Weck Labs), the District procured the services of separate lab, Eurofins Eaton Analytical (Eurofins), for weekly Nitrate sample analysis. After review of all the Nitrate sample results collected for the past several months, LPVCWD staff concluded that we are experiencing an accelerated increasing upward trend in Nitrate levels vs. a QA/QC issue. Provided this continuous average, LPVCWD staff formally advised stakeholders during August 2018 that treated water deliveries may continue to be at or slightly above 8 mg/l.

In addition, to further confirm that Nitrate levels were increasing, LPVCWD began to use Eurofins to solely analyze all Nitrate samples at our Treatment Facility from June 2018 and onward. Sample results from Eurofins confirmed that Nitrate levels were indeed at/near 80% of the MCL.

Comparing these trends and data results to the historical data shown on **Figure 6B** and **Figure 6C**, long-term Nitrate as NO<sub>3</sub> and N, respectively, concentrations in raw water appear to be on an increasing trend for Wells No. 2, No. 3 and No. 5.

### **II.1.7 NDMA Raw Water Quality (NL 10 ng/l)**

**Figure 7A** shows a stabilized trend in raw water NDMA concentrations for Wells No. 3, and a slight decreasing trend for Wells No. 2 and No. 5. As listed on **Table 8**, Well No. 2 has an average NDMA concentration of 112.9 ng/l with a max of 130 ng/l and a min of 100 ng/l, Well No. 3 has an average concentration of 0 ng/l with a max of 0 ng/l and a min of 0 ng/l, and Well No. 5 has an average concentration of 23.2 ng/l with a max of 50 ng/l and a min of 0 ng/l.

Comparing these trends and data results to the historical data shown on **Figure 7B**, long-term NDMA concentrations in raw water appear to be on a decreasing trend for Wells No. 3 and No. 5. Additionally, **Figure 7B** shows Well No. 2 concentrations on an increasing trend through 2010; however in 2011 concentrations stabilized and presently continue on a slight decreasing trend.

### **II.1.8 1,4-Dioxane Raw Water Quality (NL 1 ug/l)**

**Figure 8A** shows a stabilized trend in raw water 1,4-Dioxane concentrations for Wells No. 3 and No. 5, and a decreasing trend for Well No. 2. As listed on **Table 9**, Well No. 2 has an average 1,4-Dioxane concentration of 1.2 µg/l with a max of 1.4 µg/l and a min of 1.0 µg/l, Well No. 3 has an average concentration of 0 µg/l with a max of 0 µg/l and a min

of 0 µg/l, and Well No. 5 has an average concentration of 0 µg/l with a max of 0.6 µg/l and a min of 0 µg/l.

Comparing these trends and data results to the historical data shown on **Figure 8B**, long-term 1,4-Dioxane concentrations in raw water were on a decreasing trend that stabilized to Non-Detect levels in 2010 and 2013 for Wells No. 3 and No. 5, respectively. Additionally, **Figure 8B** shows Well No. 2 concentrations were on an increasing trend through 2012; however, in 2013 concentrations stabilized and continue on a stable trend.

## **II.2 Evaluation of Design Parameters and Source Water Monitoring**

The Treatment Facility design is based on historic high concentrations from prior source monitoring of Wells No. 2 and No. 3. Per Permit Amendment # 1910060PA-001 issued in December 2008, Well No. 5 was permitted to operate as the primary source of supply, with Wells No. 2 and No. 3 serving as backup sources.

**Table 10** list the design parameters of the Treatment Facility in respect to each contaminant, the high historic concentrations from prior source monitoring, and the minimum, average and maximum contaminant concentrations for samples collected between August 1, 2017 and July 31, 2018 for Wells No. 2, No. 3, and No. 5.

The maximum concentrations of contaminants detected in raw water for 2017-2018 are all below the historic highest concentrations from prior source monitoring with the exception of Nitrate. Nitrate at Well No. 5 was recorded at 8.2 mg/l vs. the historical high of 7.9 mg/l.

Analyzing the data listed and considering our treatment goal of removing as much contamination as possible while operating within permit provisions and design parameters, Well No. 5 continues to be the optimum source of raw water for the Treatment Facility given that contaminants have an overall lower concentration value than those of

Well's No. 2 and No. 3. However, recent levels of Nitrate (From Jan. 2018 and onward) for Well No. 5 have been consistently averaging near/above 80% of the MCL. In addition, Well No. 3 is blended with Well No. 2 when in operation due to its elevated Nitrate levels and have recently (Jan. 2018 and onward) resulted average blended effluent water near/above 80% of the MCL. Provided these current circumstances, LPVCWD has begun to plan the addition of treatment for Nitrate removal, as further detailed in Section III.6.2 of this report.

### **II.3 Pumping Water Levels**

As previously mentioned, raw water to the Treatment Facility is supplied by Well No. 2, No. 3, and No. 5. For purposes of future analysis in determining if a correlation exists between increasing and/or decreasing raw water quality concentrations and pumping levels, **Figure 9** shows the pumping level rates for each respective well between August 1, 2017 and July 31, 2018. In addition, **Figure 10** shows the historical pumping water levels for each respective well.

### **II.4 Annual Raw Water Sampling**

Per Permit Provision No. 41 of Permit Amendment No. 1910060PA-002, LPVCWD is required to collect samples from Well No. 5 (or Well No. 2 or No. 3) in accordance with the raw water monitoring schedule outlined in its OM&M Plan. The raw water monitoring schedule stipulated in Table 3 of the OM&M Plan requires collection of annual samples from Well No. 5 (or Well No. 2 or No. 3) for the analysis of tentatively-identified compounds (TICs) associated with VOCs, semi-volatile organic compounds (SVOCs), and 1,2,3-TCP. The annual water quality samples were collected at Well No. 5 on June 29, 2018. VOC TICs, SVOC TICs and 1,2,3-TCP were not detected in Well No. 5 (see **Table 13**).



## II.5 Upgradient Surveillance Wells

Per Permit Provision No. 55 of Permit Amendment No. 1910060PA-002, LPVCWD is required to provide an evaluation and technical review of the water quality data gathered from the upgradient surveillance wells and discuss any changes in the characteristics of the plume and the possible impact to the Treatment Facility. The upgradient surveillance wells associated with the Treatment Facility are the San Gabriel Valley Water Company (SGVWC) Well B6C and the Valley County Water District (VCWD) Big Dalton Well. SGVWC Well B6C is located within a 5-year capture zone while VCWD Big Dalton Well is located beyond a 20-year capture zone. Water quality samples were collected at the VCWD Big Dalton Well on April 19, 2018. *Samples for Well B6C were collected on September 6, 2018, (outside the reporting period of August 1, 2017 – July 31, 2018) through an extension approval received from the DDW on April 26, 2018. The extension was requested to coordinate the pump removal (to accommodate low flow sampling) of Well B6C provided that the Well is not in service due to shallow water table conditions.*

A summary of detected contaminants in 2017-2018 at the upgradient surveillance wells is shown on **Table 14**. A review of the water quality data shows that all of the contaminants detected at SGVWC B6C and VCWD Big Dalton Well have been previously detected at one point by LPVCWD Well No. 2, No. 3, and/or No. 5.

None of the contaminants of concern detected at SGVWC B6C and VCWD Big Dalton Well have a concentration higher than the historic highest concentrations from prior source monitoring of Well No. 2, No. 3, or No. 5. Nitrate as N was detected at 17 mg/l and 22 mg/l at VCWD Big Dalton Well (at 335 ft. below ground surface) and SGVWC Well B6C, respectively. Acknowledging that LPVCWD Wells No. 2, No. 3, and No. 5 are perforated deeper than SGVWC Well B6C and VCWD Big Dalton Well, LPVCWD will continue to review and monitor Nitrate data closely.

### **II.5.1 Historical Levels for Big Dalton Well at 275'**

**Table 15** shows and list the historical levels of contaminants of concern along with VOC and SVOC TICs for the Big Dalton Well at 275'. The table is color formatted to display contaminant levels below their respective MCL's in green, half the MCL in yellow, and levels at or above the MCL in red. Analyzing the historical data for the contaminants listed, all of the contaminants of concern are below the historic highest concentrations detected at LPVCWD's Well No. 2, No. 3, and No. 5, except for Nitrate. Nitrate levels have been increasing since 2007-2008 with levels ranging from 12.2-18 mg/l. In regards to VOC and SVOC TICs, all TICs listed indicate irregular detections of contaminants with the exception of the SVOC TIC butylated hydroxytoluene. Butylated hydroxytoluene has been detected consistently at the Big Dalton Well (at 275') since 2012-2013 with levels ranging from 2.8-11 ug/l; however, during the 17-18-year, presence of butylated hydroxytoluene was not detected. LPVCWD will continue to review and monitor Nitrate and butylated hydroxytoluene to address any possible impacts to the Treatment Facility.

### **II.5.2 Historical Levels for Big Dalton Well at 410'**

**Table 16** shows and list the historical levels of contaminants of concern along with VOC and SVOC TICs for the Big Dalton Well at 410'. The table is color formatted to display contaminant levels below their respective MCL's in green, half the MCL in yellow, and levels at or above the MCL in red. Analyzing the historical data for the contaminants listed, all of the contaminants of concern are below the historic highest concentrations detected at LPVCWD's Well No. 2, No. 3, and No. 5, except for Nitrate. Nitrate levels have been increasing since 2007-2008 with levels ranging from 11.9-17 mg/l. In regards to VOC and SVOC TICs, all TICs listed indicate irregular detections of contaminants at the Big Dalton Well (at 410'). LPVCWD will continue to review and monitor Nitrate to address any possible impacts to the Treatment Facility.

### II.5.3 Historical Levels for Well B6C

**Table 17** shows and list the historical levels of contaminants of concern along with VOC and SVOC TICs for Well B6C. The table is color formatted to display contaminant levels below their respective MCL's in green, half the MCL in yellow, and levels at or above the MCL in red. Analyzing the historical data for the contaminants listed, all of the contaminants of concern are below the historic highest concentrations detected at LPVCWD's Well No. 2, No. 3, and No. 5. Nitrate levels have been slightly increasing since 2007-2008 and have now steadily remained at 22 mg/l. In regards to VOC and SVOC TICs, all TICs listed indicate irregular detections of contaminants at Well B6C. LPVCWD will continue to review and monitor Nitrate to address any possible impacts to the Treatment Facility.

### II.6 Conclusions

The maximum concentrations of contaminants detected in raw water between August 1, 2017 and July 31, 2018 at Wells No. 2, No. 3, and No. 5 are all below or equal to the historic highest concentrations from prior source monitoring with the exception of Nitrate. Nitrate at Well No. 5 was recorded at 8.2 mg/l vs. the historical high of 7.9 mg/l.

Raw water quality data from August 1, 2017 to July 31, 2018 indicate the following:

- Well No. 2 - Contaminant concentrations appear to be on a stable trend with the exception of TCE and Nitrate. TCE and Nitrate appear to be on a slight increasing trend.
- Well No. 3 - Contaminant concentrations appear to be on a stabilized trend with the exception of Nitrate. Nitrate appears to be on a slight increased trend.
- Well No. 5 - Contaminant concentrations appear to be on an overall stabilized trend with the exception of Nitrate. Nitrate appears to be on a slight increased trend.

Overall, Nitrate raw water concentrations for Wells 2, 3 and 5 appear to be on an unusual accelerated increasing trend that have resulted in average treated water near 80% of the 10 mg/l MCL

Long-term contaminant concentration trends in raw water since the Treatment Facility began operation (March 1, 2001) indicate the following:

- Long-term TCE concentrations in raw water appeared to be on an increasing trend for Well No. 2 through 2009, however in 2012, concentrations stabilized and then began (and continue) decreasing since 2013. In addition, Wells No. 3 and No. 5 continue on a decreasing trend.
- Long-term PCE concentrations in raw water appeared to be on an increasing trend for Well No. 2 through 2012, however in 2013, concentrations began to stabilize and continue on a steady trend. In addition, Wells No. 3 and No. 5 continue on a decreasing trend.
- Long-term CTC concentrations in raw water appear to be on a decreasing trend for Wells No. 2 and No. 5. Additionally, Well No. 3 has maintained Non-Detect levels since early 2011.
- Long-term 1,2-DCA concentrations in raw water appeared to be on an increasing trend for Well No. 2 through 2010, however in 2011, concentrations stabilized and began a slight decreasing trend since 2013. In addition, Well No. 5 continues on a decreasing trend and Well No. 3 has maintained Non-Detect levels since early 2009.
- Long-term Perchlorate concentrations in raw water appeared to be on an increasing trend for Well No. 2 through 2011; however, in 2012, concentrations stabilized and presently continue on a slight decreasing trend. Wells No. 3 on and No. 5 appeared to be on decreasing trends that have presently stabilized.
- Long-term Nitrate (as NO<sub>3</sub>) concentrations in raw water appear to be on an increasing trend for Wells No. 2 and No. 3. In addition, Well No. 5 appears to be on an increasing trend.

- Long-term NDMA concentrations in raw water appear to be on a decreasing trend for Wells No. 3 and No. 5. Well No. 2 concentrations were on an increasing trend through 2010; however, in 2011, concentrations stabilized and presently continue on a slight decreasing trend.
- Long-term 1,4-Dioxane concentrations in raw water were on a decreasing trend that stabilized to Non-Detect levels in 2010 and 2013 for Wells No. 3 and No. 5, respectively. Well No. 2 concentrations were on an increasing trend through 2012, however in 2013 concentrations stabilized and continue on a stable to slight decreasing trend.

Annual raw water quality results for 1,2,3-TCP and TICs associated with VOCs and SVOCs were Non-Detect in the annual water quality samples collected from Well No. 5.

Upgradient monitoring water quality samples were collected at the VCWD Big Dalton Well on April 19, 2018 and samples at Well B6C were collected on September 6, 2018, (outside the reporting period of August 1, 2017 – July 31, 2018) through an extension approval received from the DDW on April 26, 2018. The extension was requested to coordinate the pump removal (to accommodate low flow sampling) of Well B6C provided that the Well is not in service due to shallow water table conditions. None of the contaminants of concern detected at SGVWC B6C and VCWD Big Dalton Well have a concentration higher than the historic highest concentrations from prior source monitoring of Well No. 2, No. 3, or No. 5. Nitrate as N was detected at 17 mg/l and 22 mg/l at VCWD Big Dalton Well (at 335 ft. below ground surface) and SGVWC Well B6C, respectively. Acknowledging that LPVCWD Wells No. 2, No. 3, and No. 5 are perforated deeper than SGVWC Well B6C and VCWD Big Dalton Well, LPVCWD will continue to review and monitor Nitrate data closely in future sampling events.

## SECTION III

### TREATMENT FACILITY OPERATIONAL PERFORMANCE

The purpose of this section is to summarize the overall operational performance of the Treatment Facility and each of its components.

#### III.1 Description of Operation & Production

During the operational period of August 1, 2017 to July 31, 2018, the primary source of supply to the Treatment Facility came from Well No. 5. Periodically, Wells No. 2 and No. 3 were used as a source of supply to facilitate water quality sample collections to maintain both wells “Active” with the DDW. The average groundwater production during this period was 305.67 acre-feet per month (AF/month), as shown on **Table 1**.

##### III.1.1 Quantity Treated/Treatment Plant Efficiency

Between August 1, 2017 and July 31, 2018, groundwater production at Well No. 2, No. 3, and No. 5 was 173.2 AF, 202 AF and 3,292.8 AF, respectively, for a total of 3,668 AF (production data for Well No. 2, No. 3, and No. 5 are included in **Table 1**). The minimum total monthly production from the Treatment Facility was 272.3 AF in September 2017 and the maximum total monthly production from the Treatment Facility was 319.4 AF in March 2018.

Treated water samples are collected weekly at sampling location SP-6 (see **Diagram 1**) and analyzed for TCE, PCE, CTC, 1,2-DCA, Perchlorate, NDMA, and 1,4-Dioxane. **Table 11** list monthly average results of treated samples taken during August 1, 2017 and July 31, 2018. All sample results reported non-detect levels indicating an overall treatment efficiency of 100% for all contaminant concentrations. In addition, water samples are taken on a weekly basis and analyzed for Nitrate at SP-10. **Table 11A** list results of

effluent Nitrate levels along with the average of 7.5 mg/l, max of 8.7 mg/l and min of 5.1 mg/l.

### **III.2 Description of VOC Treatment Facility (Air Strippers)**

Groundwater from Well No. 5 (Well No. 2 and/or No. 3 if used) is pumped to the top of each air stripping tower and flows over the packing material where VOCs are transferred from the water to the air flowing in a counter-current direction. The VOCs in the air are then removed by the activated carbon vessels and the remaining clean air is released to the atmosphere. Air Stripper No.1 has an off-gas control unit with about 7,000 pounds of granular activated carbon (GAC) and Air Stripper No. 2 has an off-gas control unit containing about 20,400 pounds of GAC. Air stripping towers No. 1 and No. 2 were originally designed for a maximum flow rate of 1,500 gpm with minimum 30:1 volumetric air to water ratio for air stripping tower No. 1 and 60:1 for air stripping tower No. 2. Both air stripping towers were designed to reduce VOCs in raw water to below non-detectable levels.

#### **III.2.1 Operational Modifications/Maintenance**

During the Summer of 2017, the DDW approved a test plan to demonstrate that Air Stripper #2 is capable of achieving removals of trichloroethene (TCE), carbon tetrachloride (CTC), and 1,2- dichloroethane (1,2-DCA) to below the detection limit for purposes of reporting (DLR) with a lower air-to-water ratio (A:W) of 40:1 through step-wise adjustments. Concluding the test plan, all sample results taken demonstrated that Air Stripper #2 was capable of removing VOCs to ND levels at an A:W ratio of 40:1. On January 16, 2018, the District received a letter from the DDW granting interim approval to operate Air Stripper #2 at a minimum air to water volumetric ratio of 45 to 1 pending issuance of a permit amendment.

The vapor phase GAC removal and the loading of the adsorber vessels with correct quantity of fresh activated carbon for both Air Strippers occurred on October 26, 2017 as summarized below:

- Contractor – Evoqua Water Technologies LLC
- Carbon Type – Reactivated Coconut Shell
- Mesh Size – 4 x 8
- Quantity – 27,000 lbs. (Approximately)

### **III.3 Description of Perchlorate Treatment Facility (SPIX)**

The Single Pass Ion Exchange (SPIX) unit consists of two parallel trains of two ion exchange vessels in series lead-lag configuration for a total of four vessels. Equal flow is maintained through each pair of ion exchange vessels. A flow meter is provided to allow the flow to each ion exchange vessel pair to be set using a butterfly valve. The Treatment Facility is currently designed to treat up to 2,500 gpm of flow (1,250 gpm per pair of vessels). The single pass ion exchange treatment unit is designed to reduce the concentration of perchlorate in raw water to at least below detection. The SPIX is a manually controlled and operated system. Once the resin in the SPIX vessel is exhausted a resin change out is implemented where the resin in the lead vessel is replaced with fresh resin, the lag vessel is switched to become the lead vessel, the vessel with the fresh resin now becomes the lag vessel, and the spent resin is sent for disposal.

#### **III.3.1 Operational Modifications/Maintenance**

During late 2017 and early 2018, LPVCWD conducted a pilot column test to demonstrate that the Dowex PSR2 Plus perchlorate selective resin has as good as or better throughput than Dowex PSR-2 resin with the endpoint of 4 ppb on a single (lead) column for treatment of perchlorate. Concluding the pilot, all sample results taken demonstrated that PSR2 Plus resin was capable of removing perchlorate.



On June 7, 2018, the DDW approved via email correspondence the use of the PSR2 Plus resin for perchlorate removal.

The SPIX resin removal and the loading of ion exchange vessels with specified ion exchange resin occurred on September 13, 2017, December 22, 2017, and April 11, 2018 as summarized below:

- Contractor – Evoqua Water Technologies
- Resin Type – Dowex PSR-2
- Resin Structure – Gel
- Quantity – 424 ft<sup>3</sup>
- Bed Volume Guarantee – 95,000

#### **III.4 Description of NDMA & 1,4-Dioxane Treatment Facility (UVTerra)**

The UVTerra system consists of two reactor modules running in parallel and a process control system. Each UVTerra reactor contains a total of six rotational units and one additional unit for operational flexibility. Each rotational unit consists of a 4-lamp by 16-lamp, non-staggered array of ultra-violet (UV) lamps. Each reactor contains 384 (6x4x16) UV lamps. Destruction of 1,4-Dioxane requires the addition of hydrogen peroxide, which forms hydroxyl radicals in water. Under the influence of UV light, the hydroxyl radicals oxidize 1,4-Dioxane. NDMA is destroyed by direct photolysis when exposed to UV light and is also enhanced by the addition of hydrogen peroxide. Based on a full-scale demonstration test conducted in November 2001, Trojan recommended that each of the two reactors could treat up to 1,250 gpm of flow with four rotational units turned-on. This configuration can treat NDMA and 1,4-Dioxane from up to 1,500 ng/l and 3.4 µg/l, respectively, to non-detectable levels with about 2.5 mg/l of hydrogen peroxide added to the reactors.

### **III.4.1 Operational Modifications/ Maintenance**

The effectiveness of the LPUV/Oxidation (or advanced oxidation) was evaluated during late 2017, with the goal of optimizing performance. LPVCWD coordinated with Trojan Technologies with respect to analyzing the AOP operational conditions through water samples upstream of UV prior to the addition of hydrogen peroxide. The sample analysis did not yield in any operational optimization changes.

The UV Terra system is inspected and maintained by Trojan UV Certified Service. Trojan certified service technicians quarterly inspect and perform preventative maintenance. The following repair activities were performed as follows:

#### **January 10, 2018 – Trojan UV Certified Service**

- Cleaned all sleeves and passivate all modules

### **III.5 Treatment Facility Operational Incidents**

During August 1, 2017 through July 31, 2018, a number of operational incidents occurred that prompted corrective actions at the Treatment Facility. **Table 12** list all operational incidents along with the date, time, and corrective action taken.

### **III.6 Planned Activities**

#### **III.6.1 Chemical Dosage Evaluation**

The dosing with chemicals used to adjust pH and the addition of ortho-polyphosphate to prevent the potential occurrence of “red water” is being reevaluated given the transition from ISEP to SPIX. Evaluations have been postponed. Any mutually agreed changes resulting from the evaluations will be presented for review and approval by the DDW before implementation.

### **III.6.2 Nitrate Treatment**

Provided the accelerated increasing upward trend in Nitrate levels, LPVCWD will begin steps towards adding a Nitrate treatment system to its current treatment facility to mitigate this issue on a timely manner. LPVCWD will evaluate the different treatment technologies for Nitrate removal with the intent of choosing the best feasible option that compliments the existing treatment facility and coordinate with the DDW accordingly throughout the process to promote an expedited permitting process.

### **III.6.3 Operation, Maintenance and Monitoring Plan Update**

The OM & M Plan will be revised associated to the treatment facility will be revised to include new operational changes that are being proposed through a proposed permit amendment. Such changes will include, but not limited to, Air to water ratios, PH goals, approved resin(s) for perchlorate removal, chemical dosing goals, and a Nitrate removal treatment process.

### **III.6.4 Application for Permit Amendment**

To adequately document all the proposed changes, a permit amendment application will be submitted to the DDW to include the proposed Nitrate treatment system, Air Stripper #2 Air to Water Ratio, approved SPIX resin(s), and any applicable operational changes and/or permit provision clarifications.

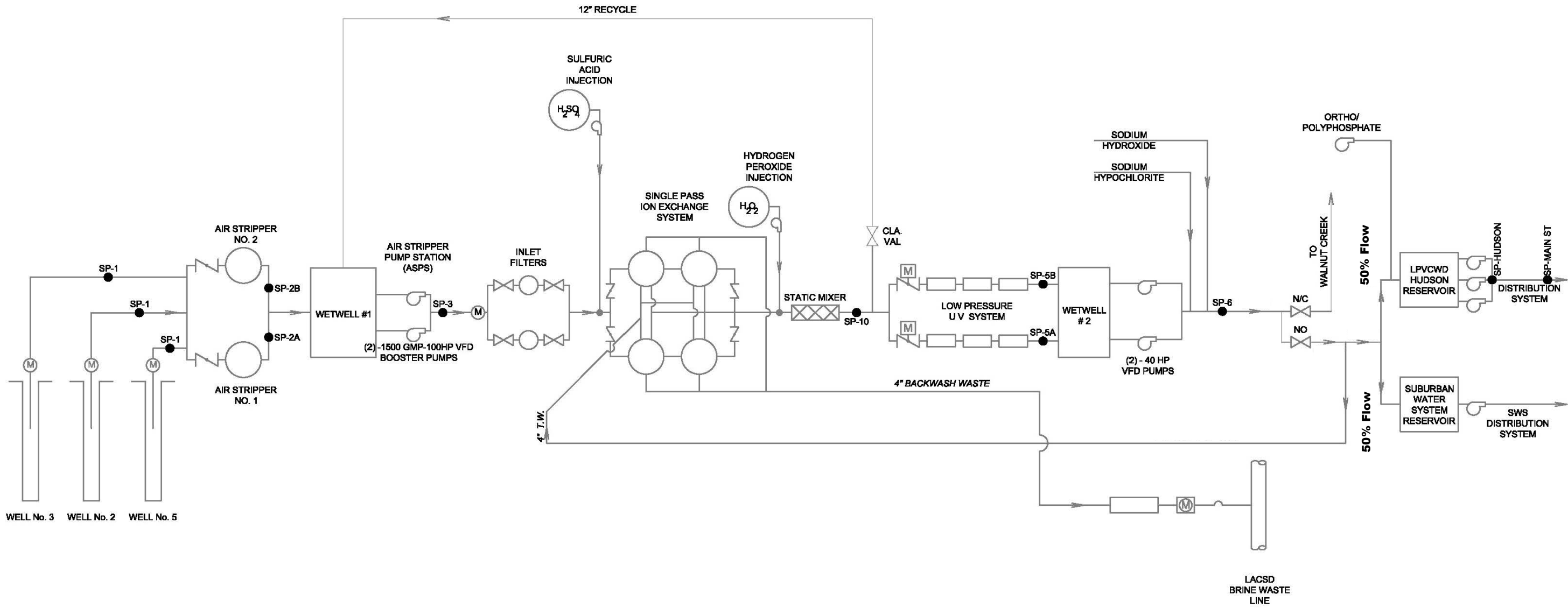
## **III.7 Conclusions**

Between August 1, 2017 and July 31, 2018, a total of 3,668 AF of water was treated and 100 percent of Perchlorate, VOCs (TCE, PCE, CTC, 1,2-DCA), NDMA, and 1,4-Dioxane contaminants were removed at the Treatment Facility. Nitrate concentrations appear to be on an increasing for Well No. 2 and No. 3 and No. 5. Overall,

concentrations remain within the design parameters of the Treatment Facility with the exception of Nitrate. A significant change to the Treatment Facility to treat for Nitrate is anticipated to be implemented within the next 3 years.

## DIAGRAMS

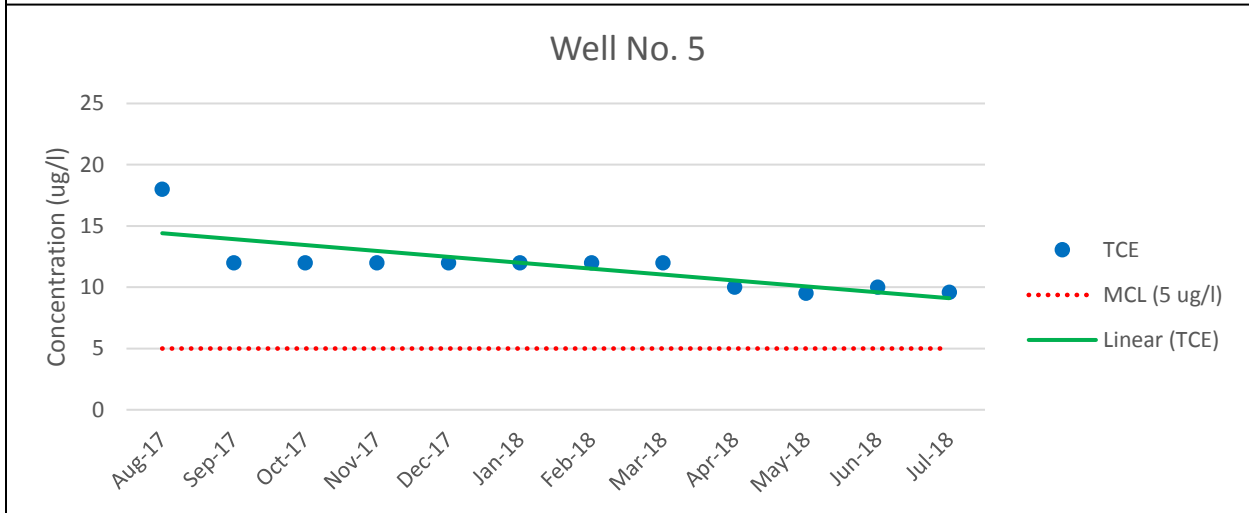
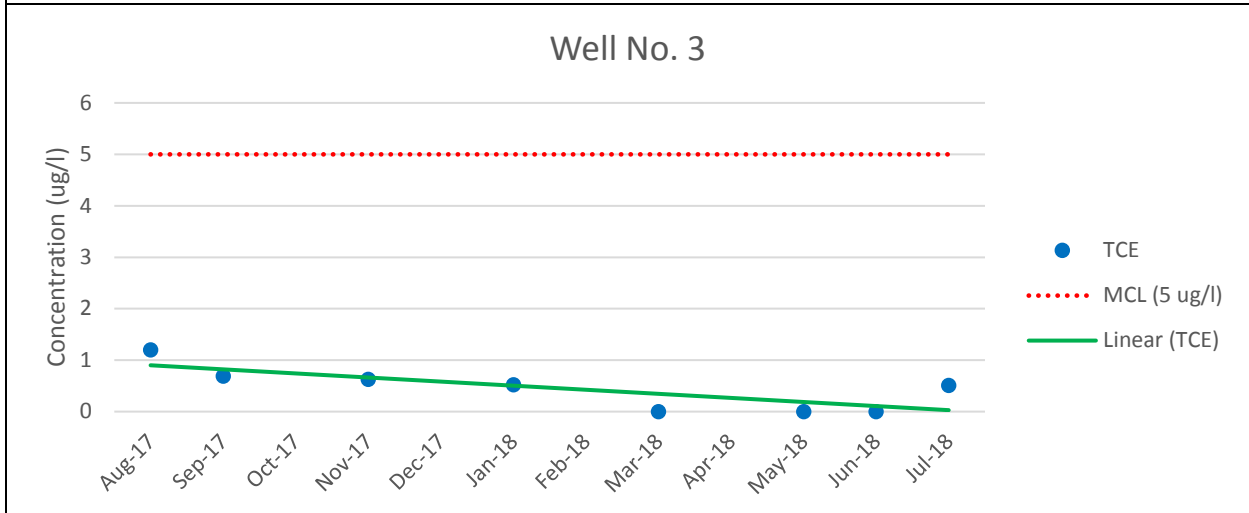
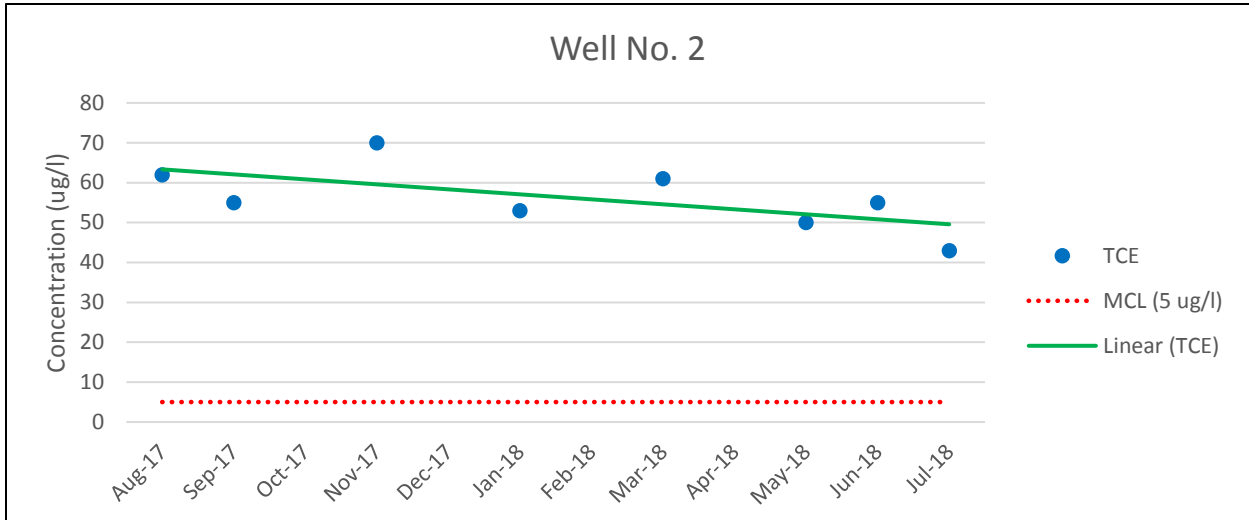
# DIAGRAM 1



LA PUENTE VALLEY COUNTY WATER DISTRICT

TREATMENT FACILITY PROCESS DIAGRAM

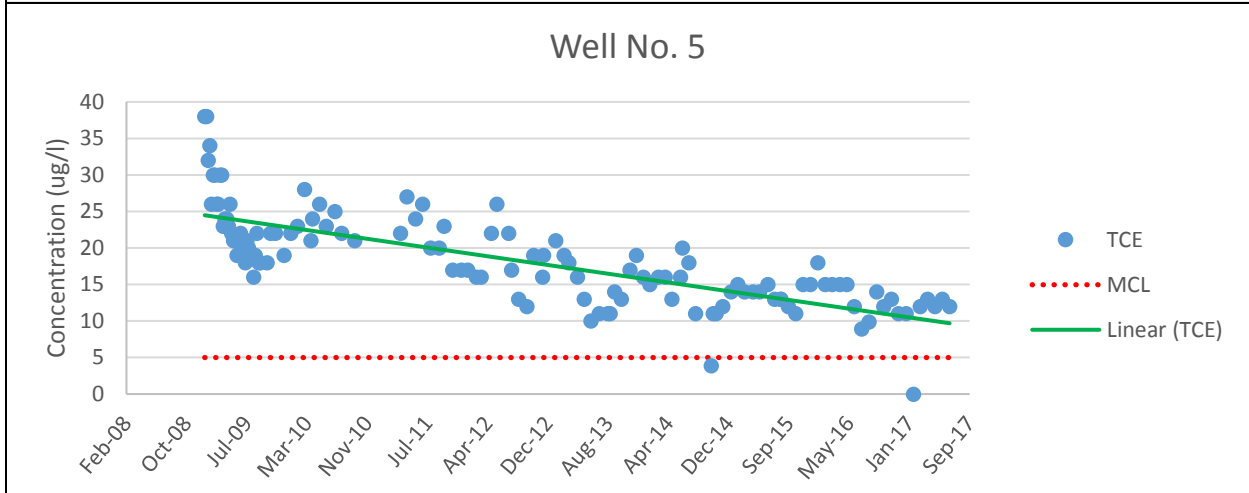
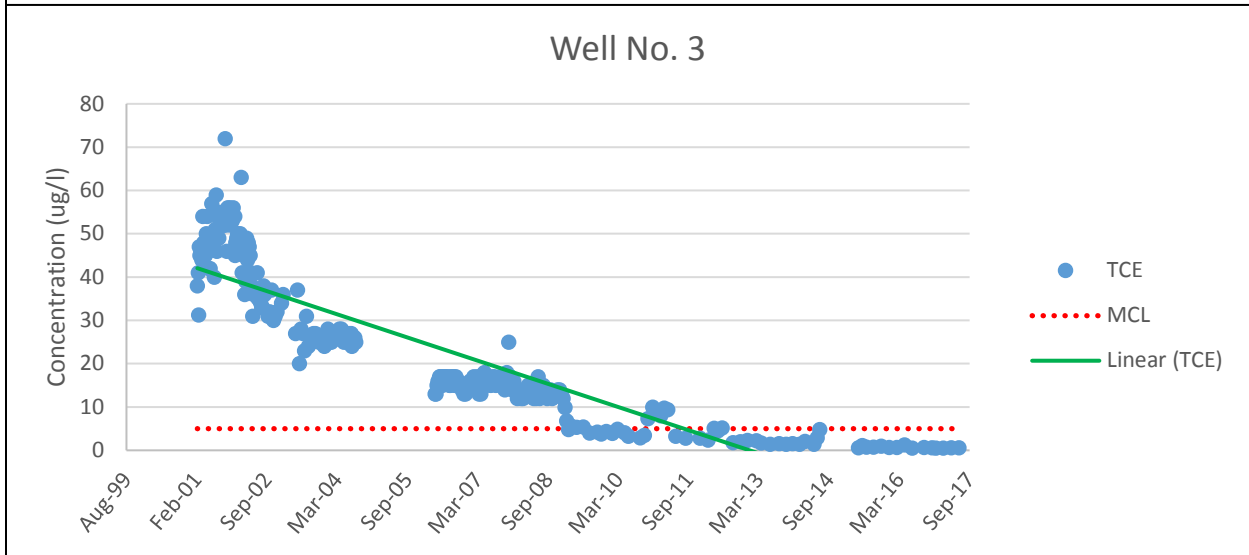
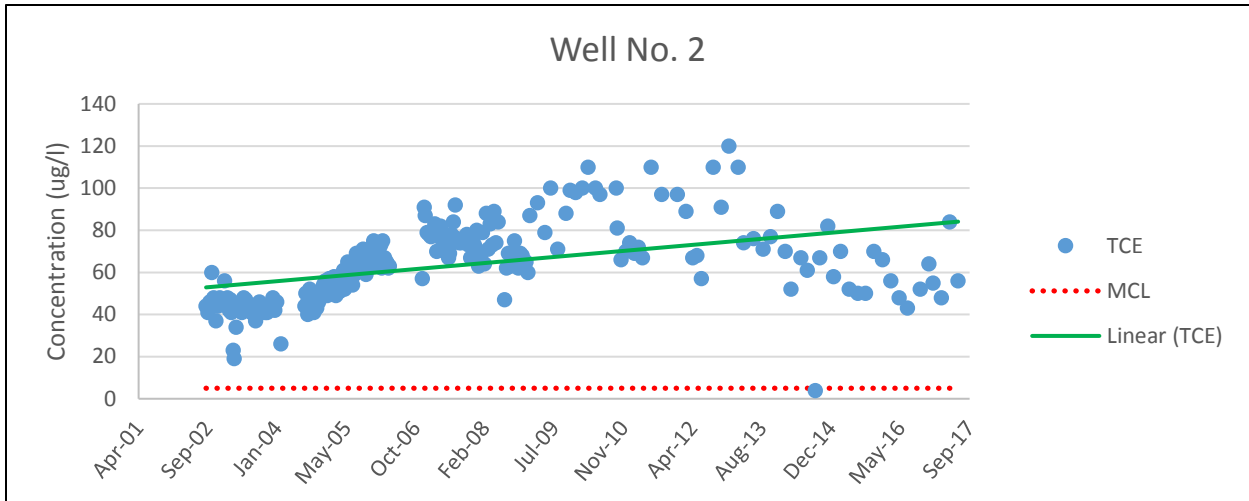
## FIGURES



112 N First St.  
La Puente, CA 91744

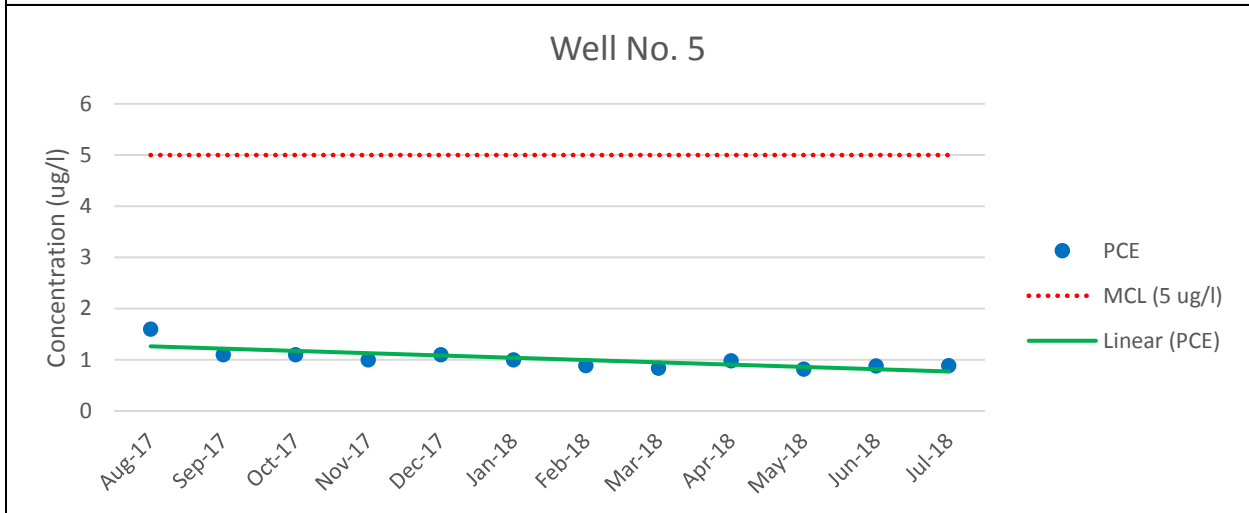
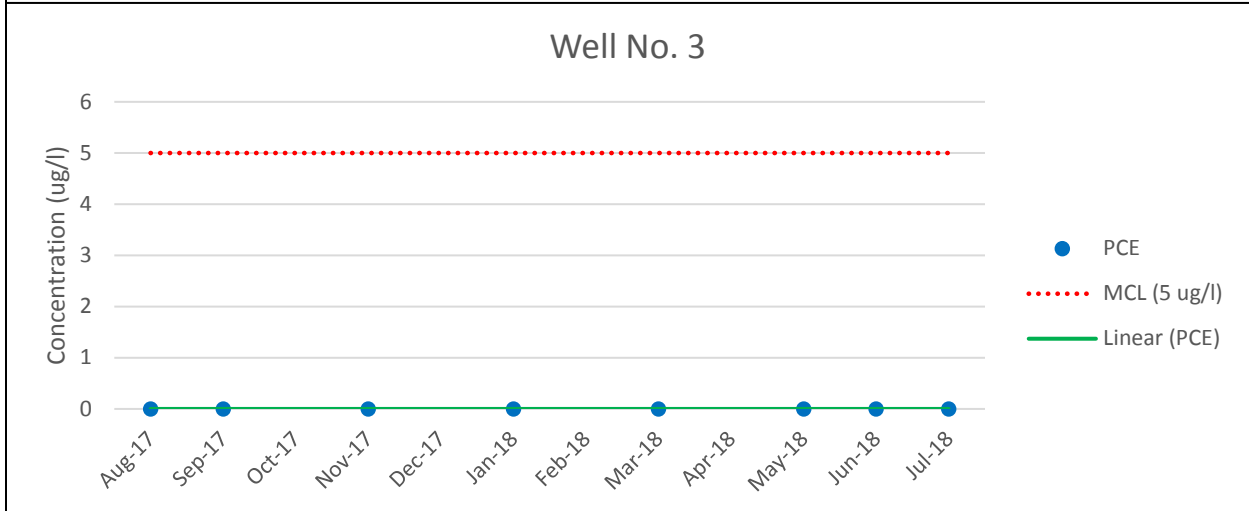
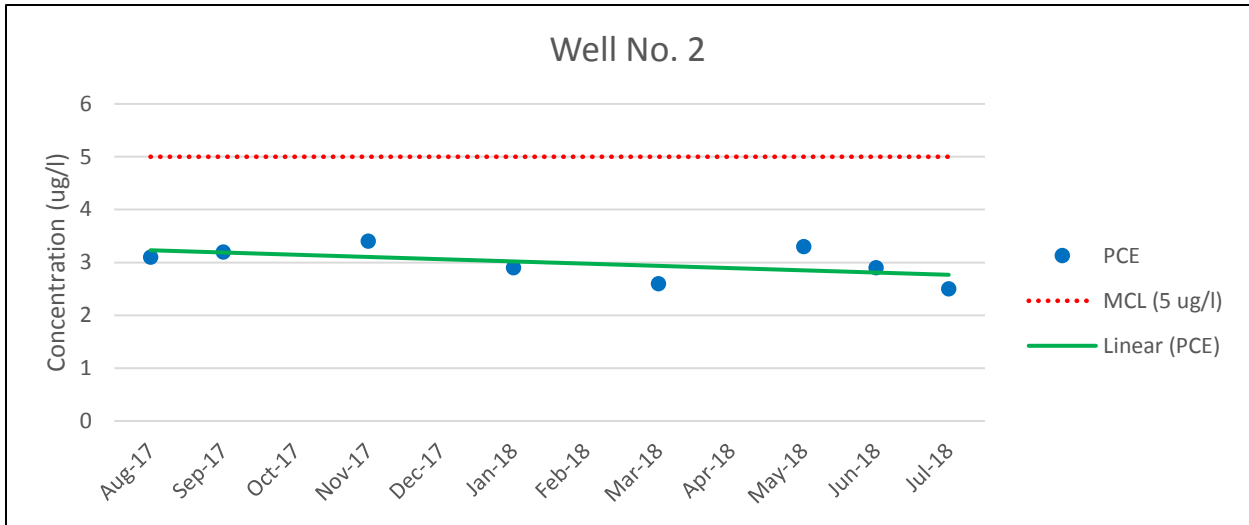
**FIGURE 1A**  
RAW WATER  
TRICHLOROETHYLENE (TCE) CONCENTRATIONS  
AUGUST 2017 – JULY 2018





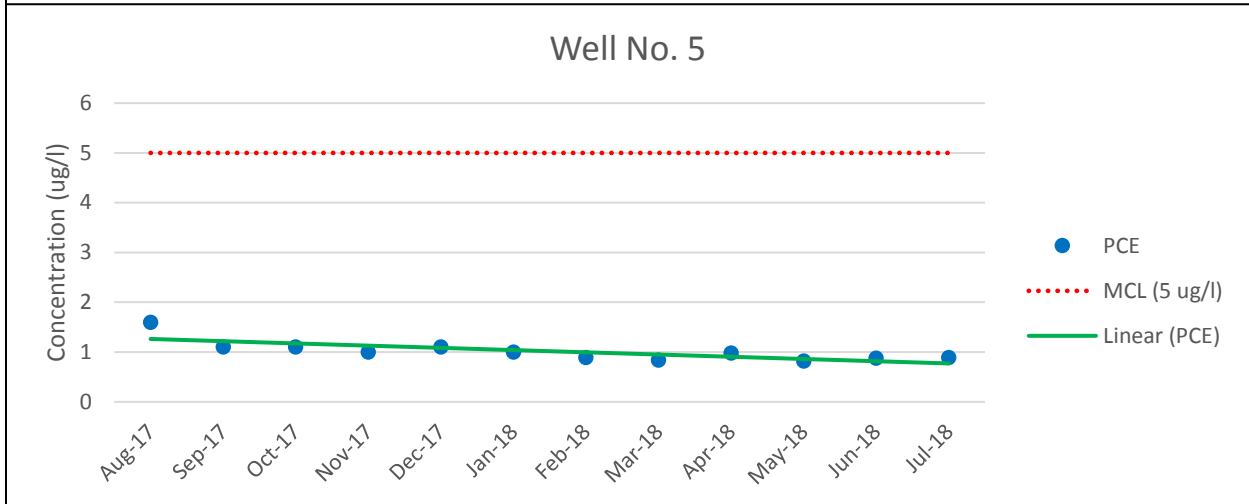
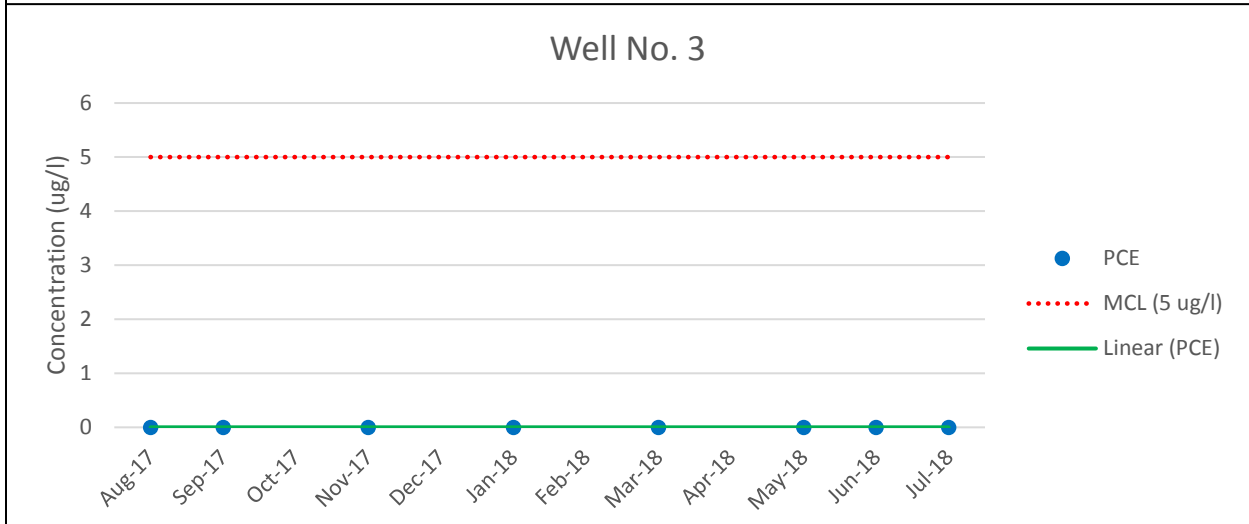
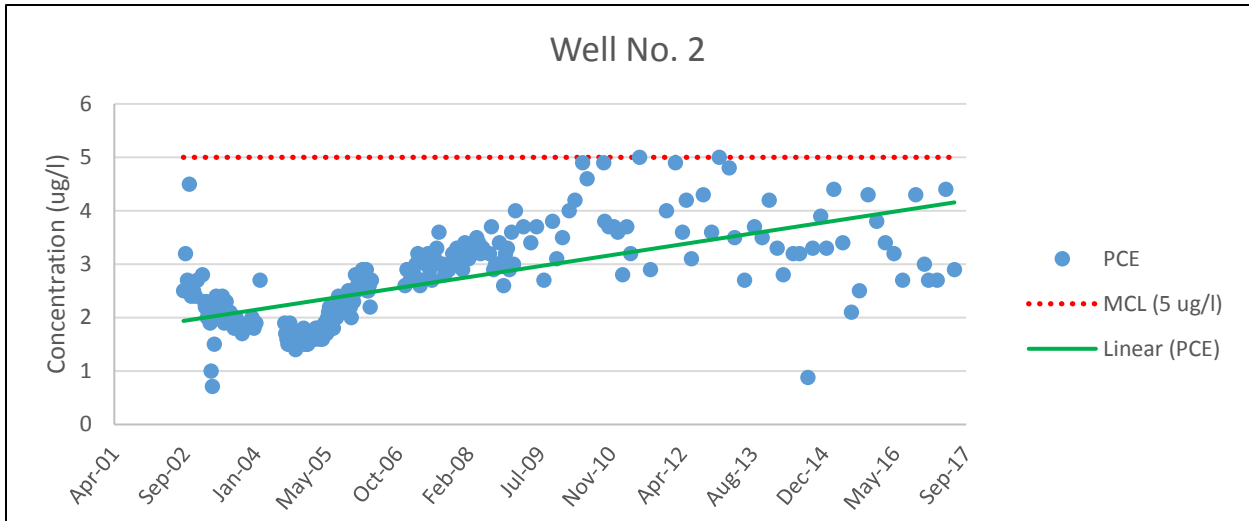
112 N First St.  
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**FIGURE 1B**  
HISTORICAL RAW WATER  
TRICHLOROETHYLENE (TCE) CONCENTRATIONS  
2001 – 2017



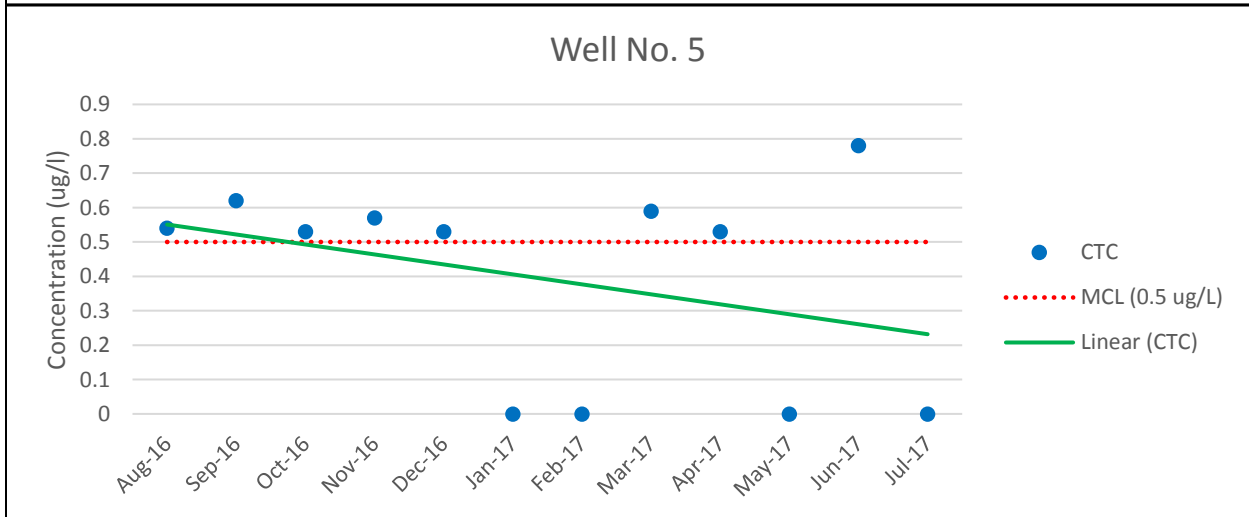
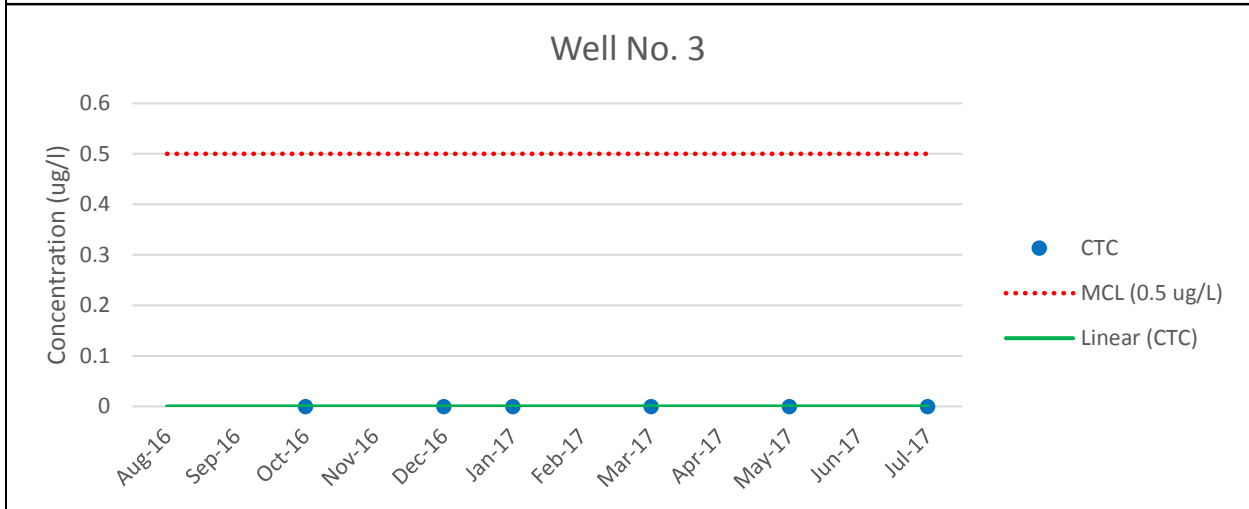
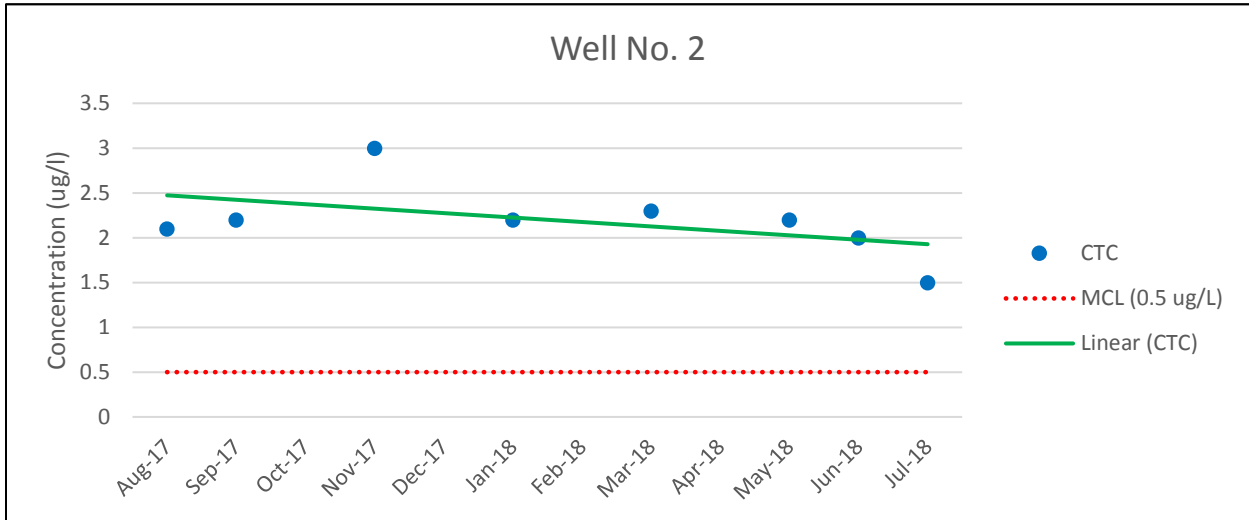
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**FIGURE 2A**  
RAW WATER  
TETRACHLOROETHYLENE (PCE) CONCENTRATIONS  
AUGUST 2017 – JULY 2018



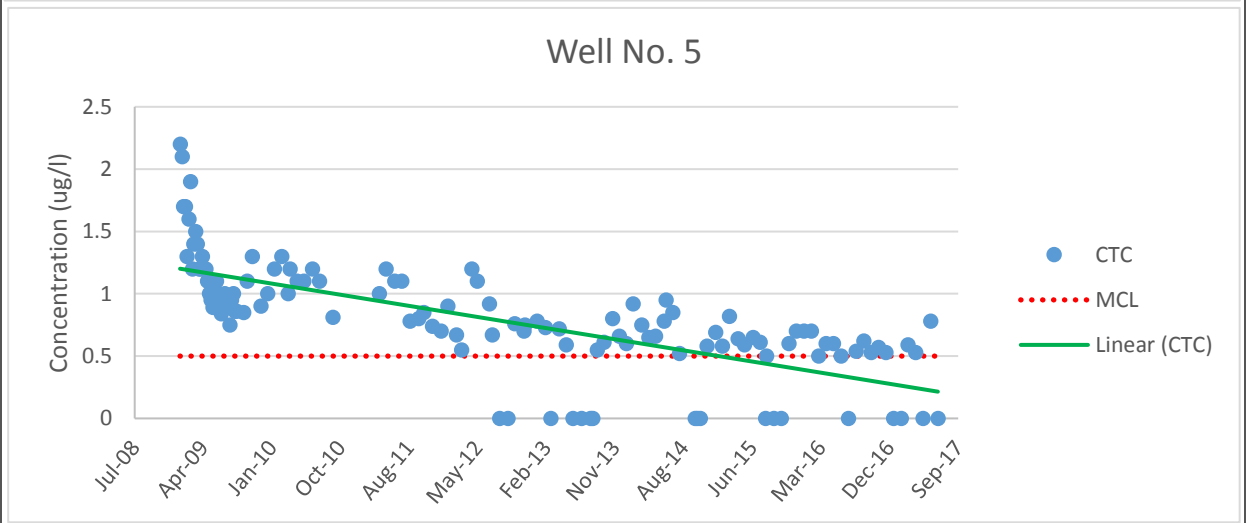
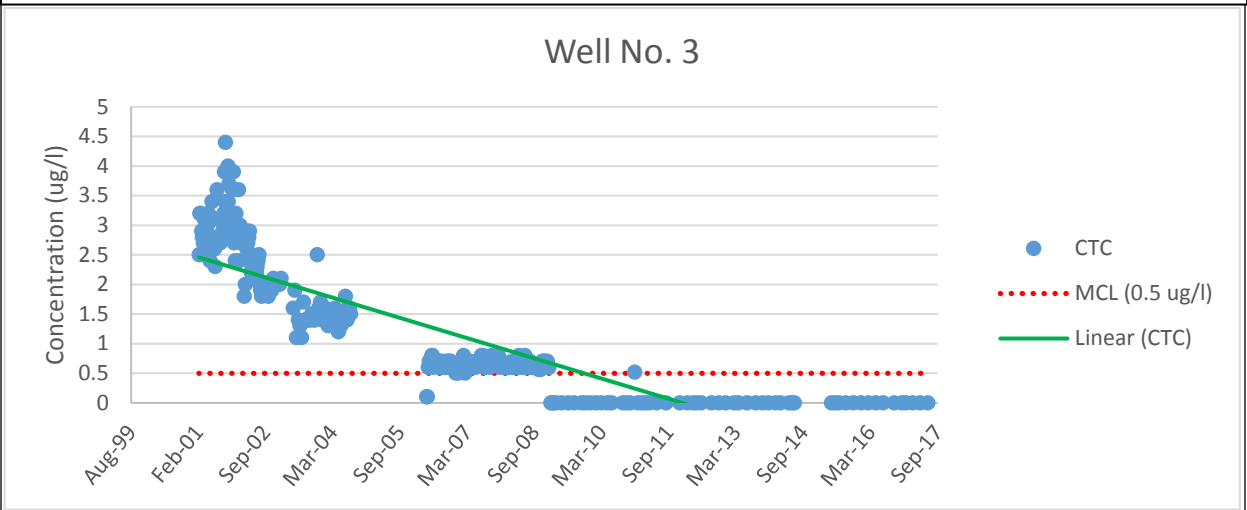
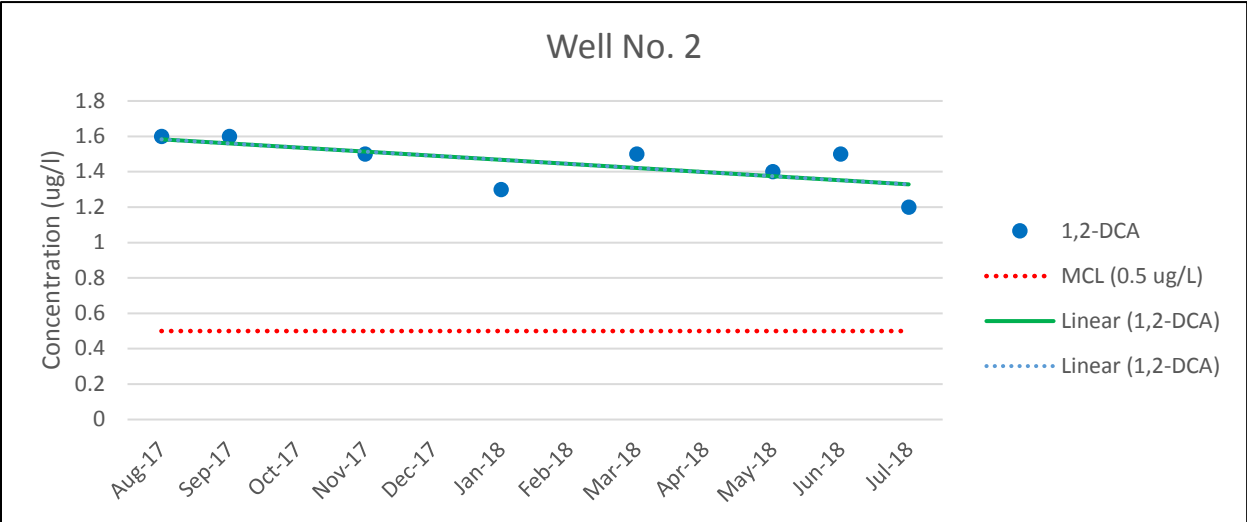
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**FIGURE 2B**  
HISTORICAL RAW WATER  
TETRACHLOROETHYLENE (PCE) CONCENTRATIONS  
2001 – 2017



112 N First St.  
La Puente, CA 91744

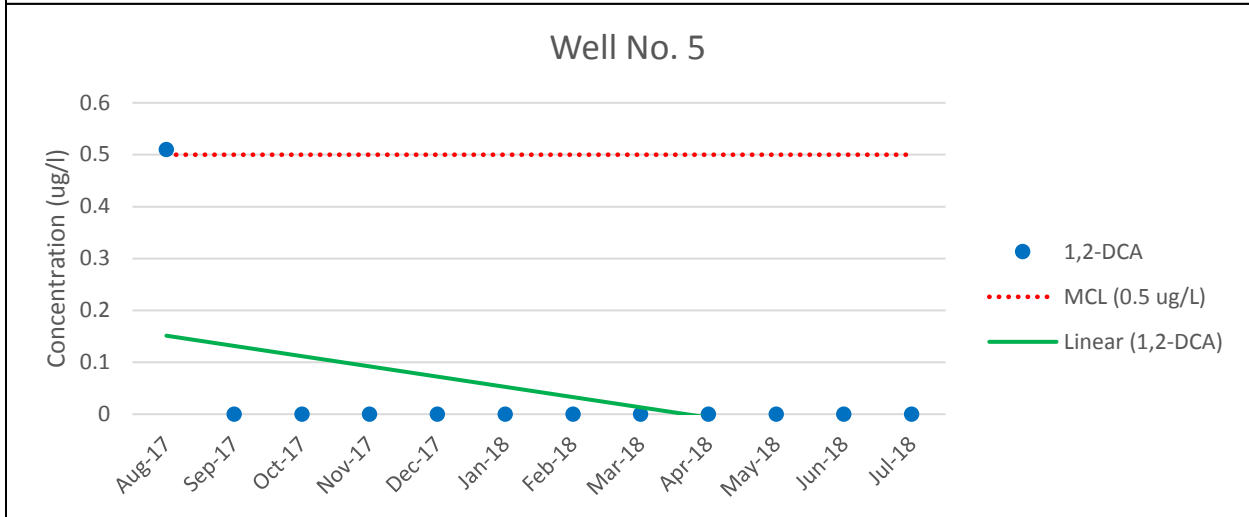
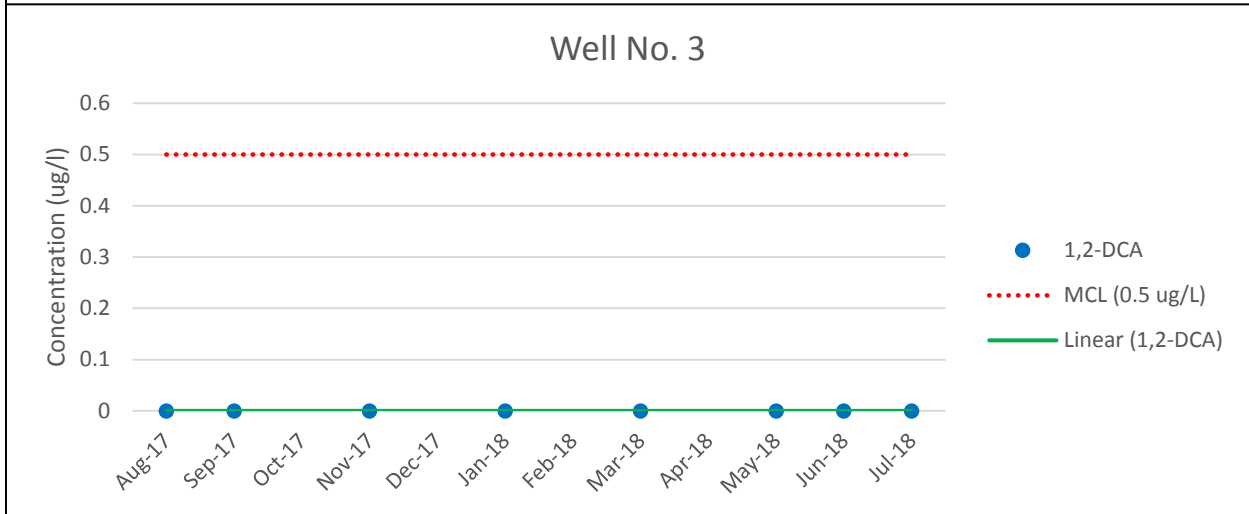
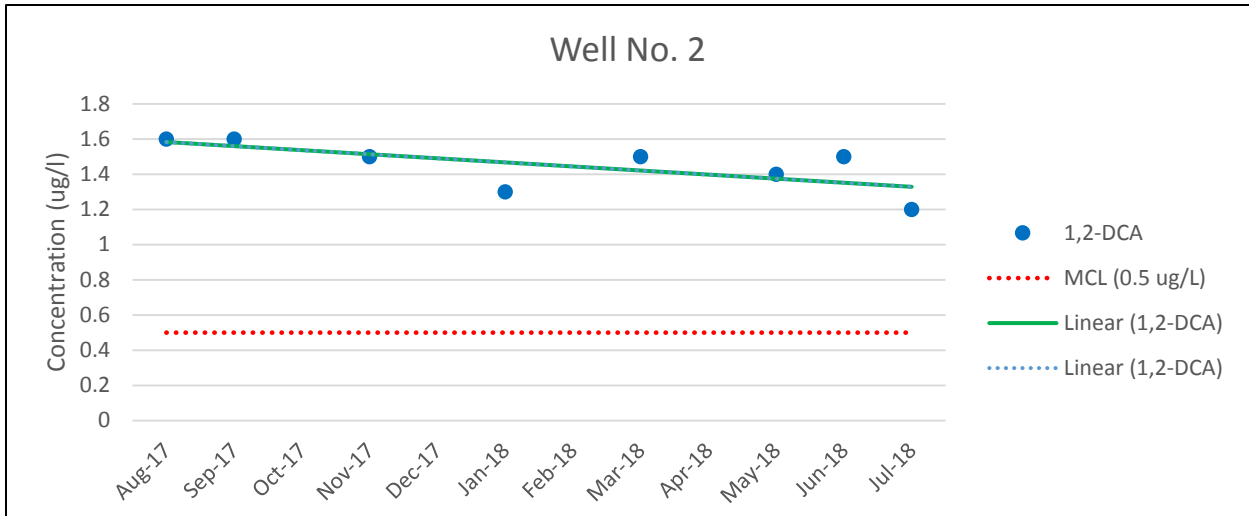
**FIGURE 3A**  
RAW WATER  
CARBON TETRACHLORIDE (CTC) CONCENTRATIONS  
AUGUST 2017 – JULY 2018





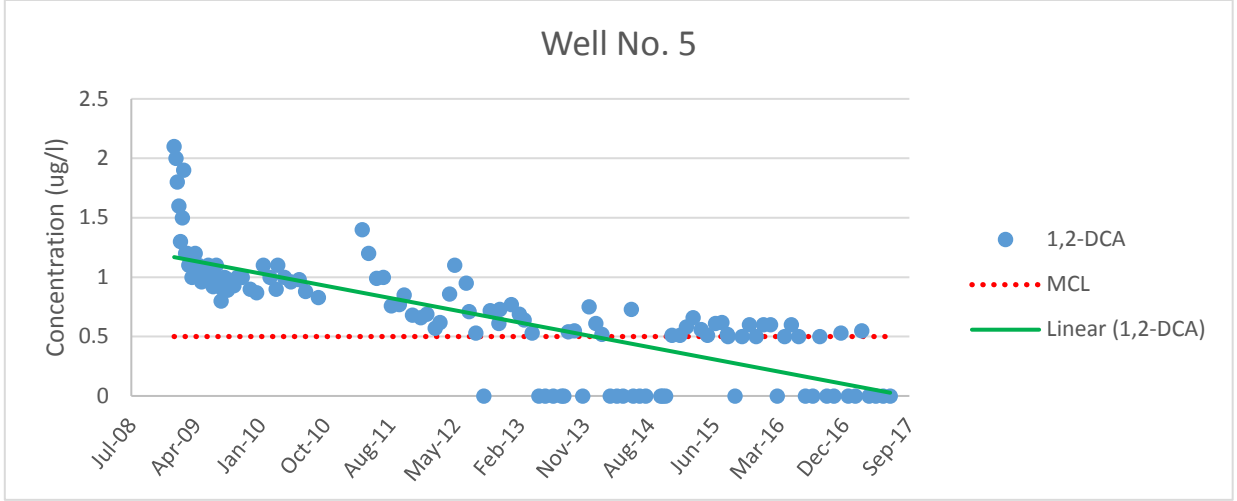
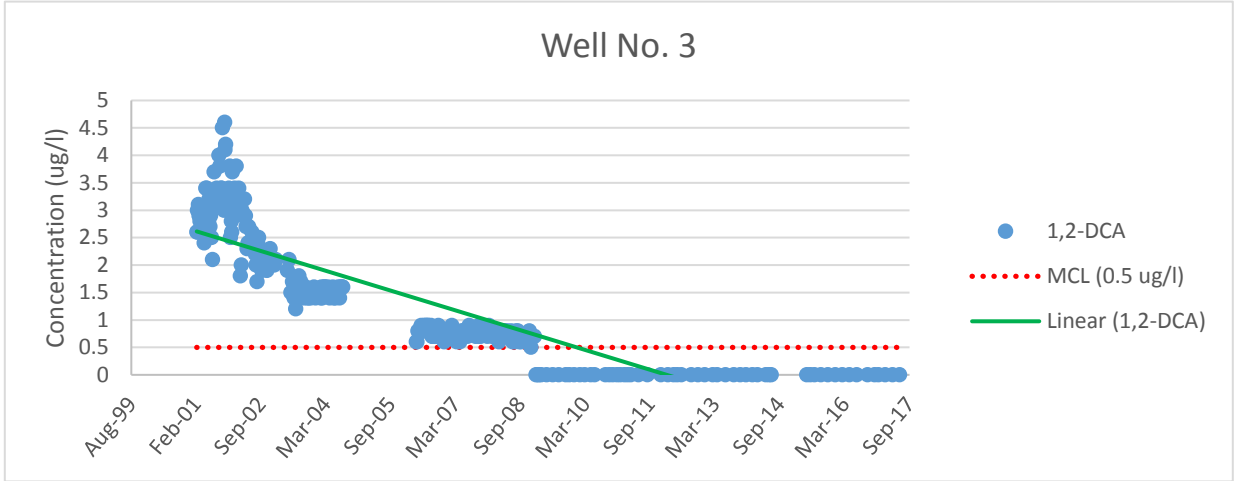
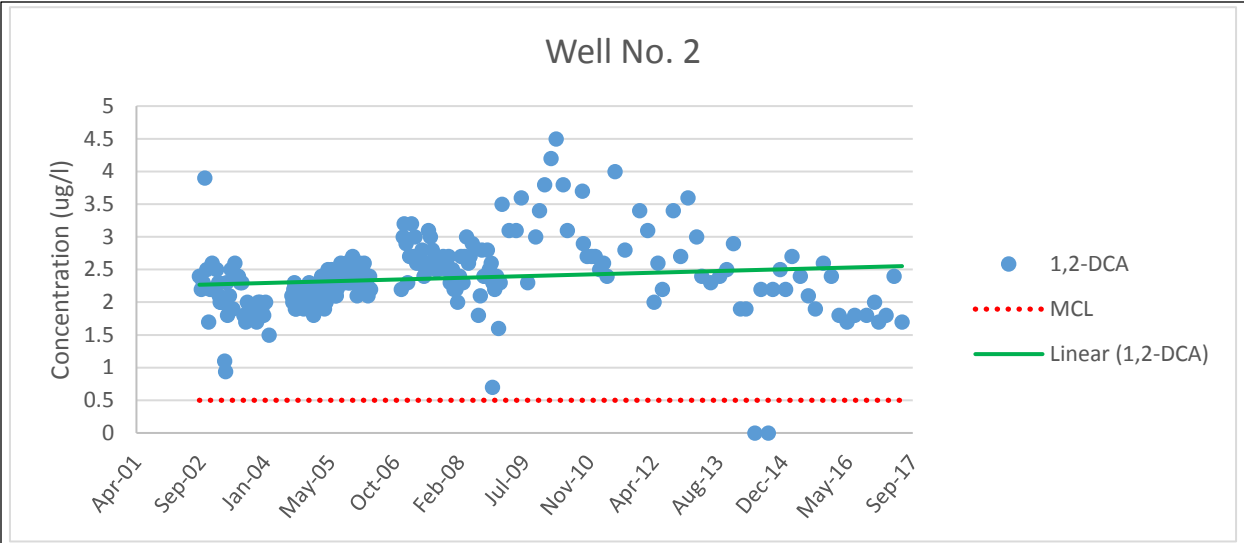
112 N First St.  
La Puente, CA 91744

**FIGURE 3B**  
HISTORICAL RAW WATER  
CARBON TETRACHLORIDE (CTC) CONCENTRATIONS



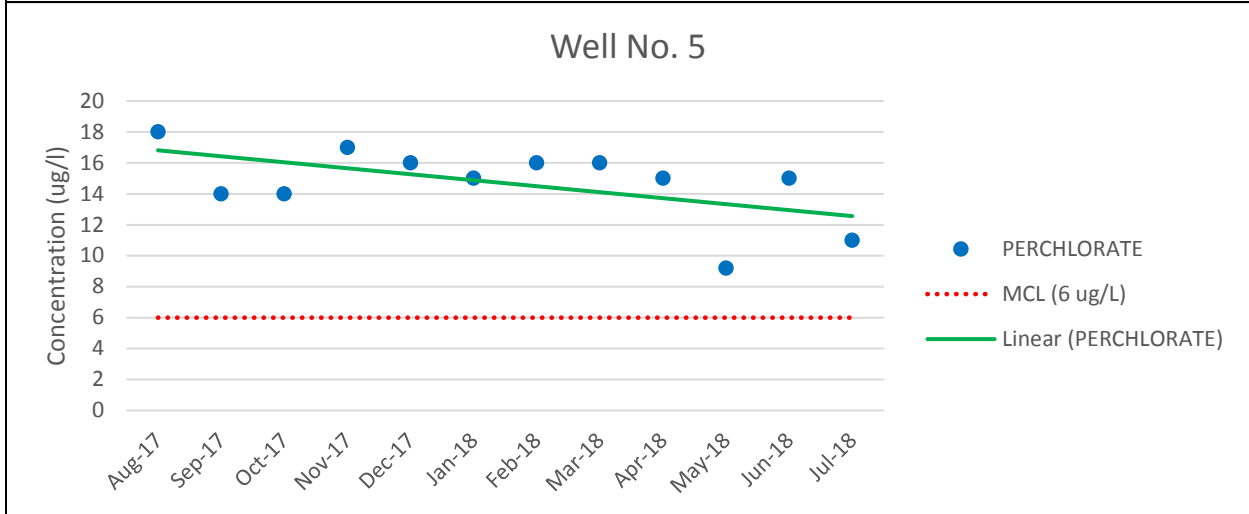
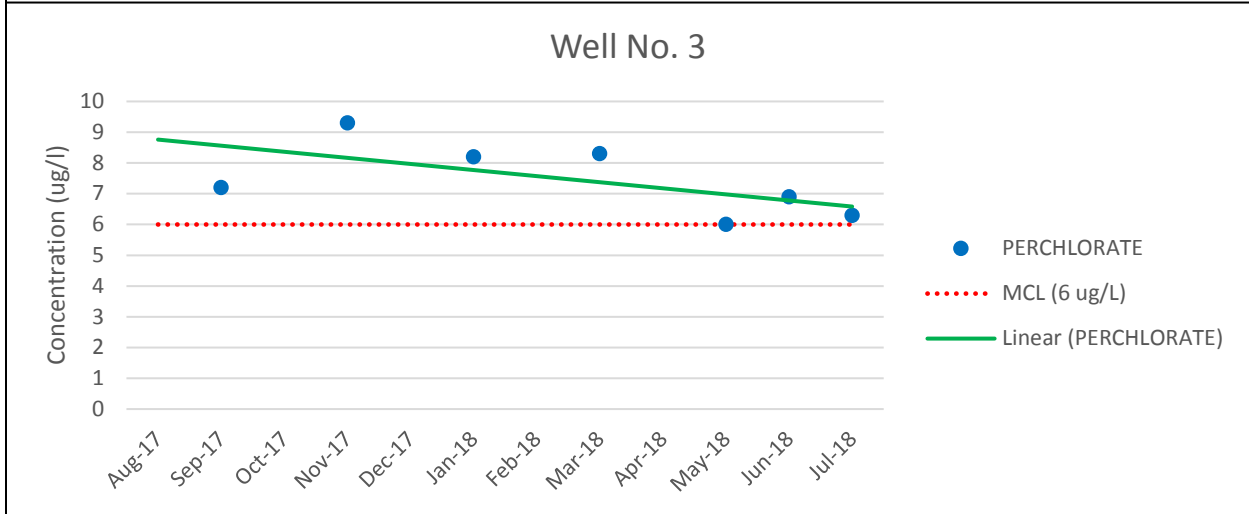
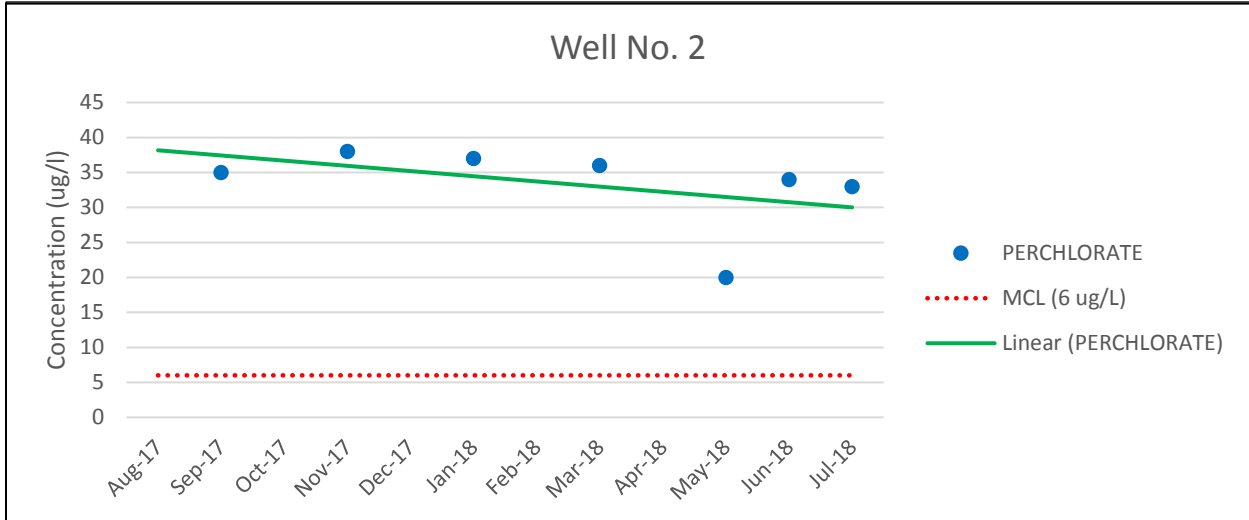


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**FIGURE 4A**  
RAW WATER  
1,2-DICHLOROETHANE (1,2-DCA) CONCENTRATIONS  
AUGUST 2017 – JULY 2018



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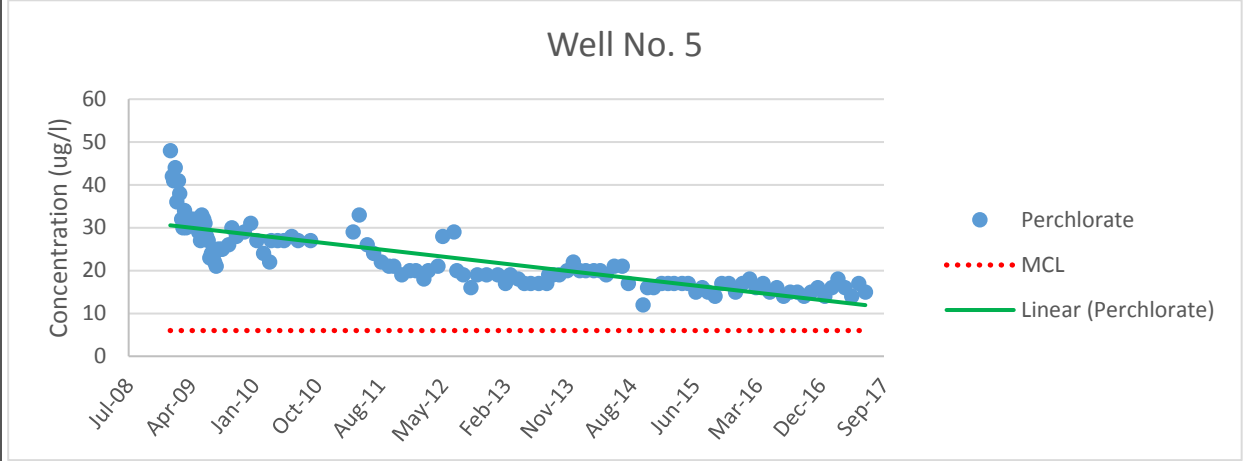
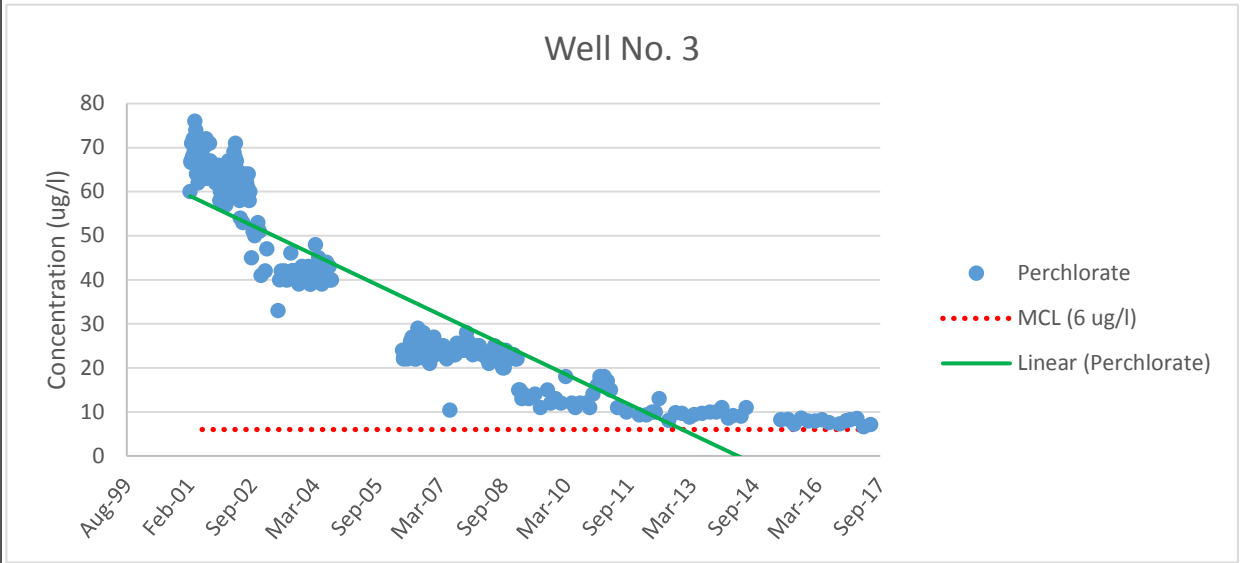
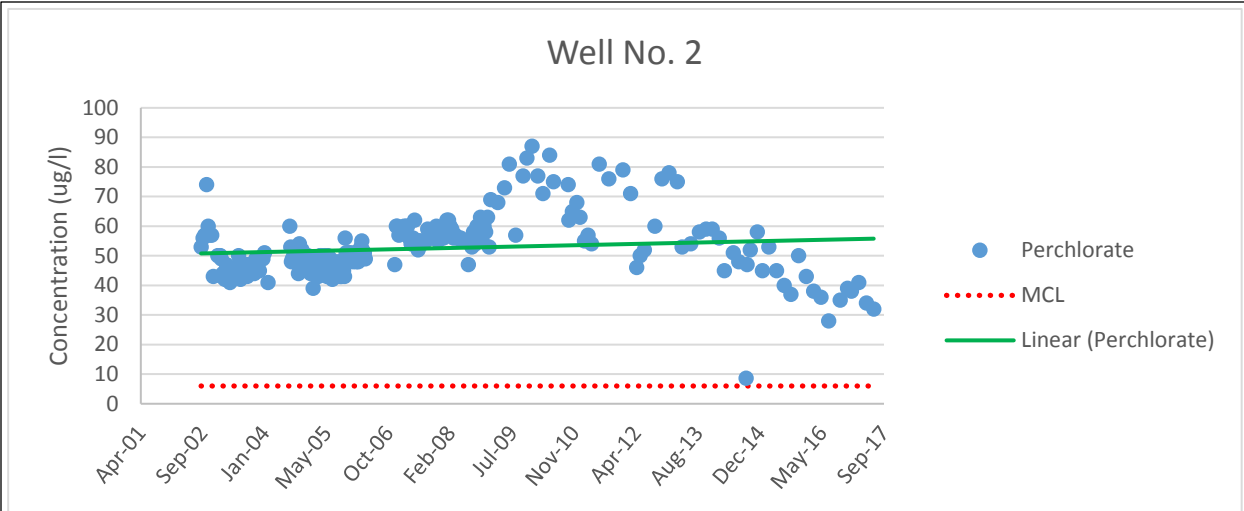
**FIGURE 4B**  
HISTORICAL RAW WATER  
1,2-DICHLOROETHANE (1,2-DCA) CONCENTRATIONS

112 N First St.  
La Puente, CA 91744

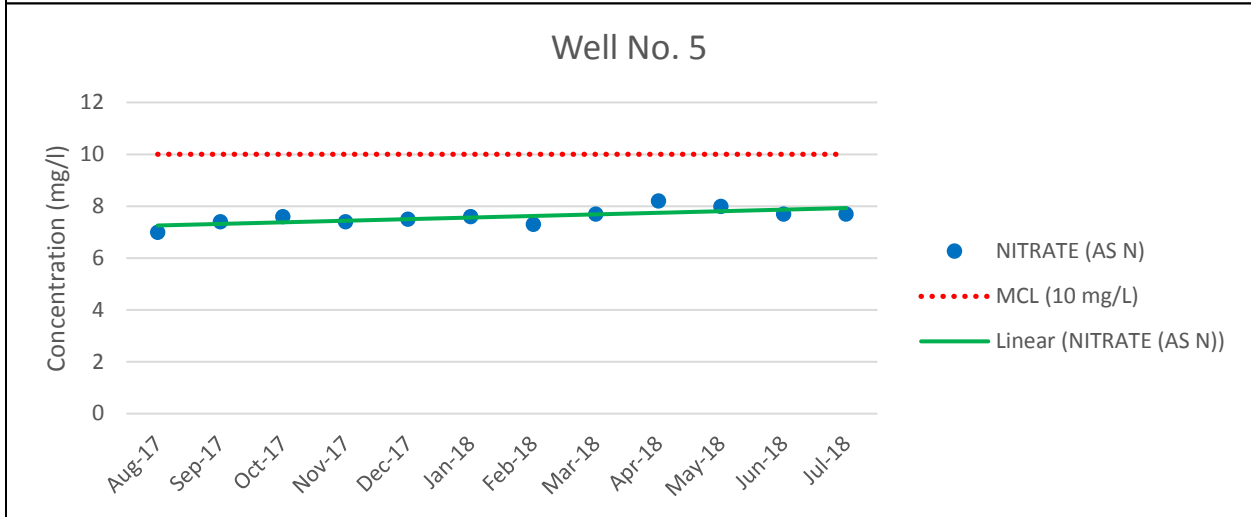
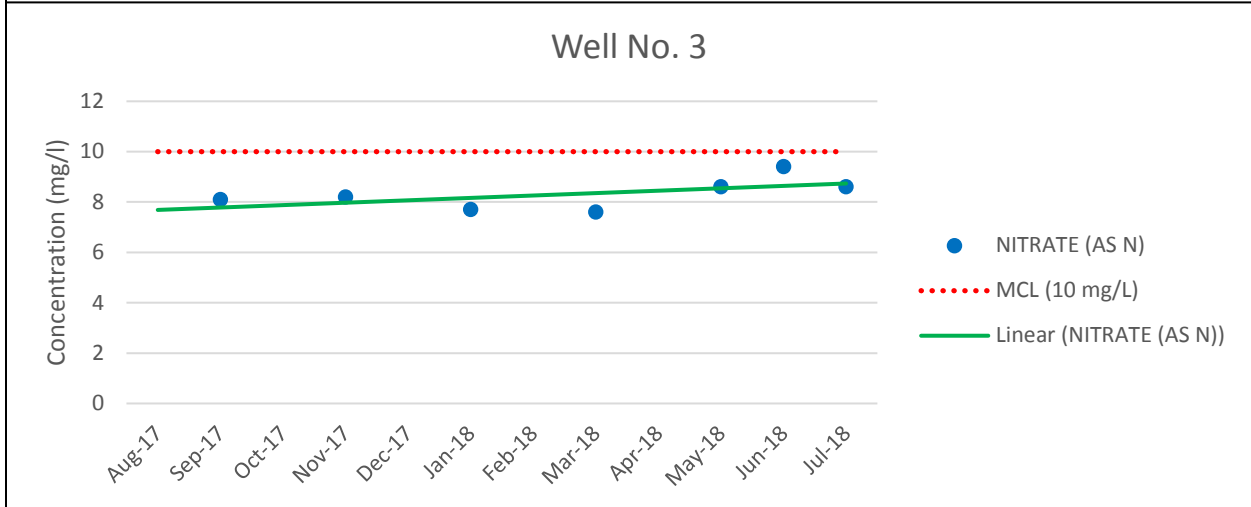
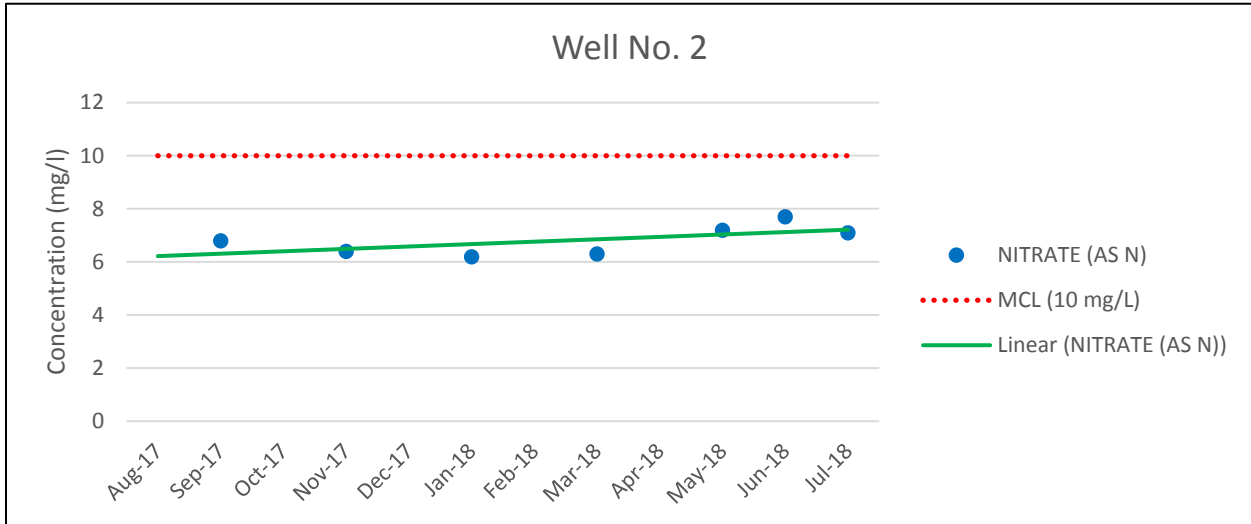
**FIGURE 5A**  
RAW WATER  
PERCHLORATE CONCENTRATIONS  
AUGUST 2017 – JULY 2018





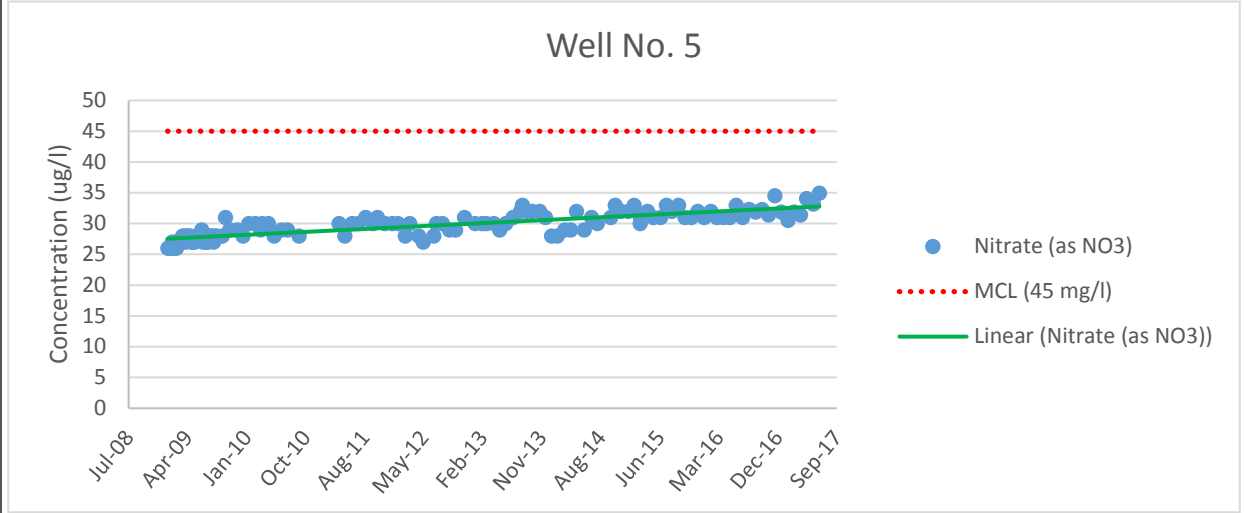
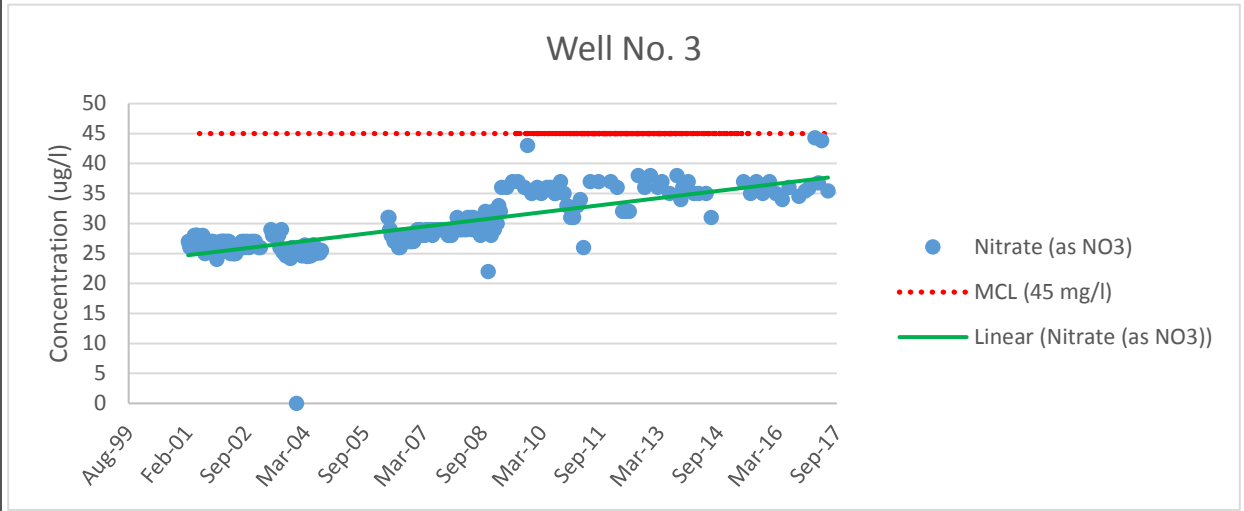
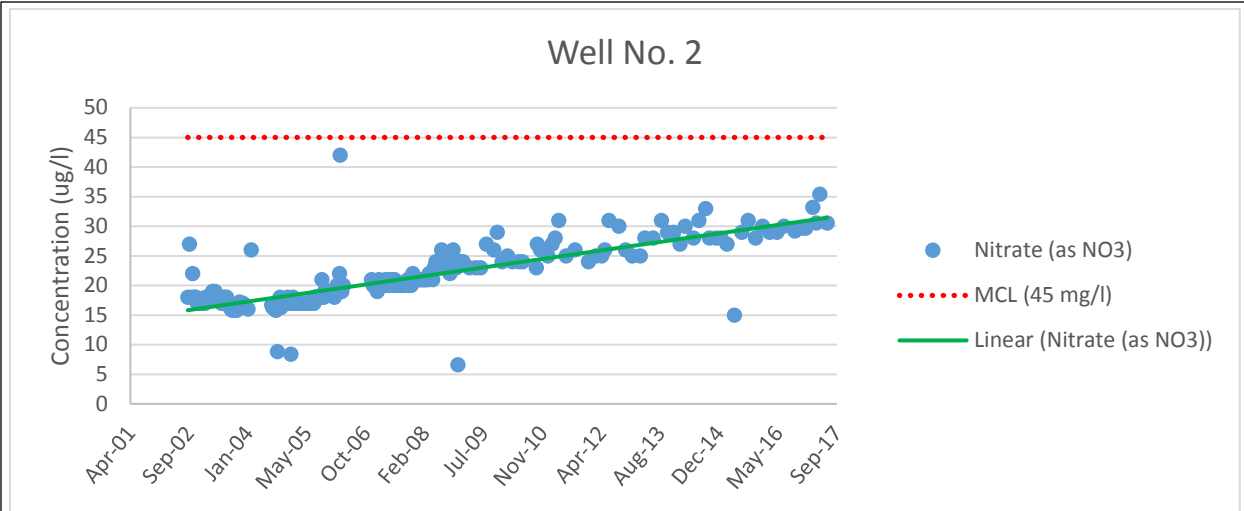

112 N First St.  
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**FIGURE 5B**  
HISTORICAL RAW WATER  
PERCHLORATE CONCENTRATIONS



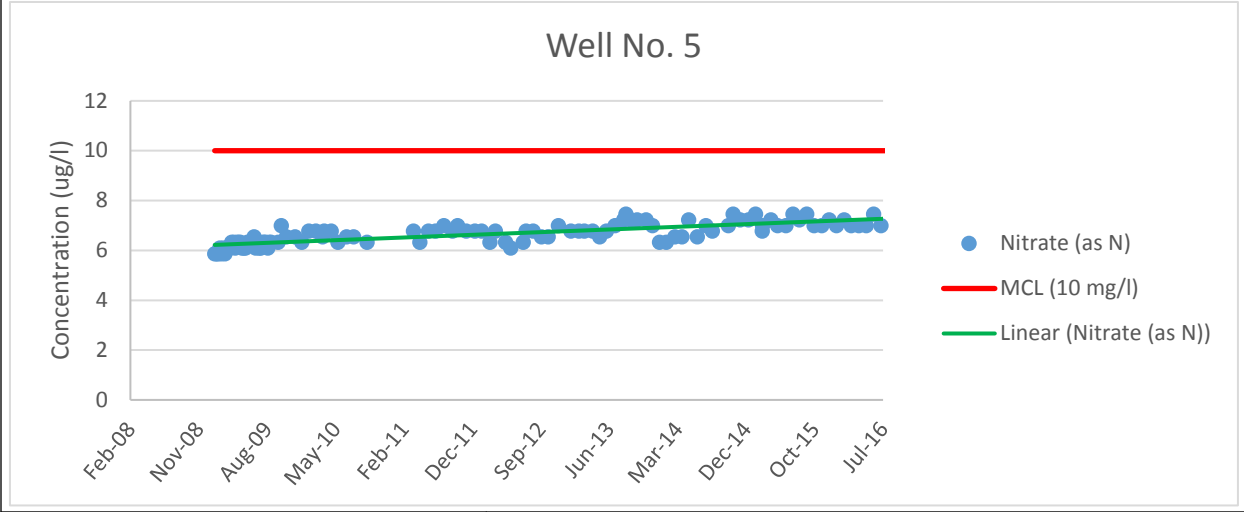
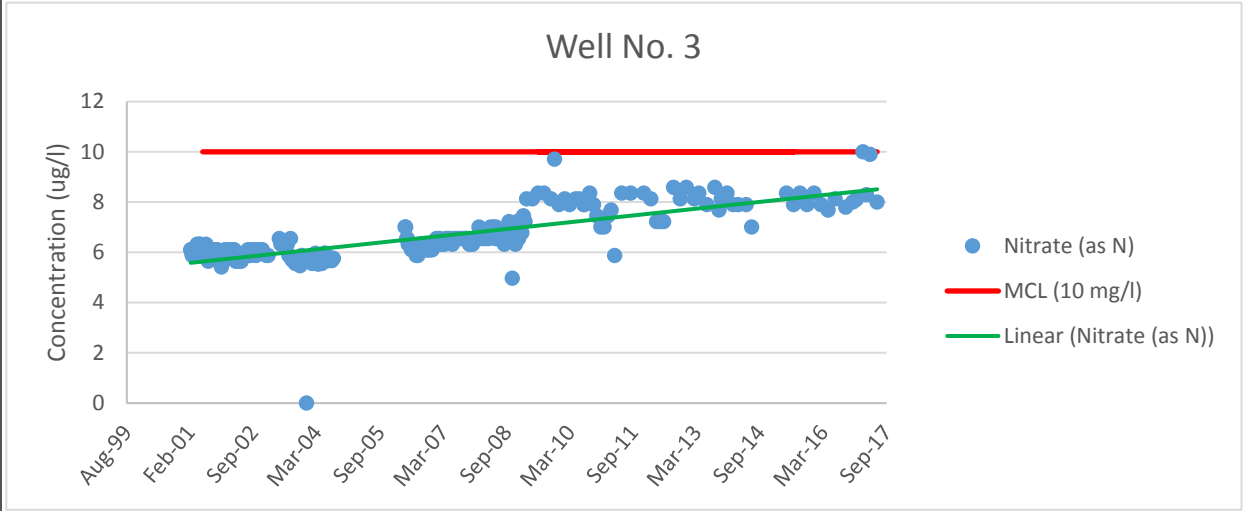
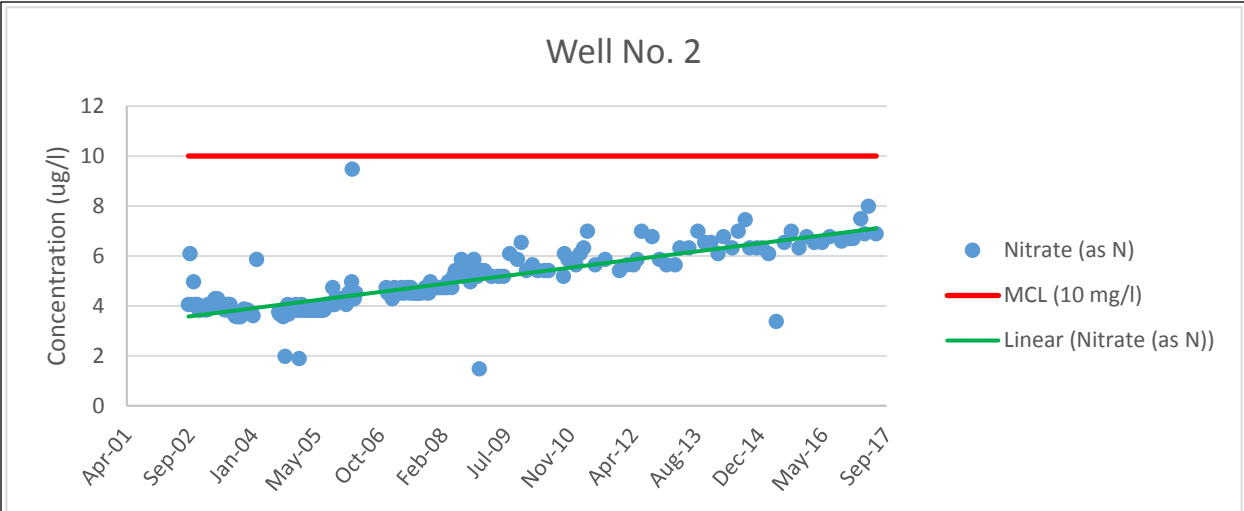
112 N First St.  
La Puente, CA 91744

**FIGURE 6A**  
RAW WATER  
NITRATE (AS N) CONCENTRATIONS  
AUGUST 2017 – JULY 2018

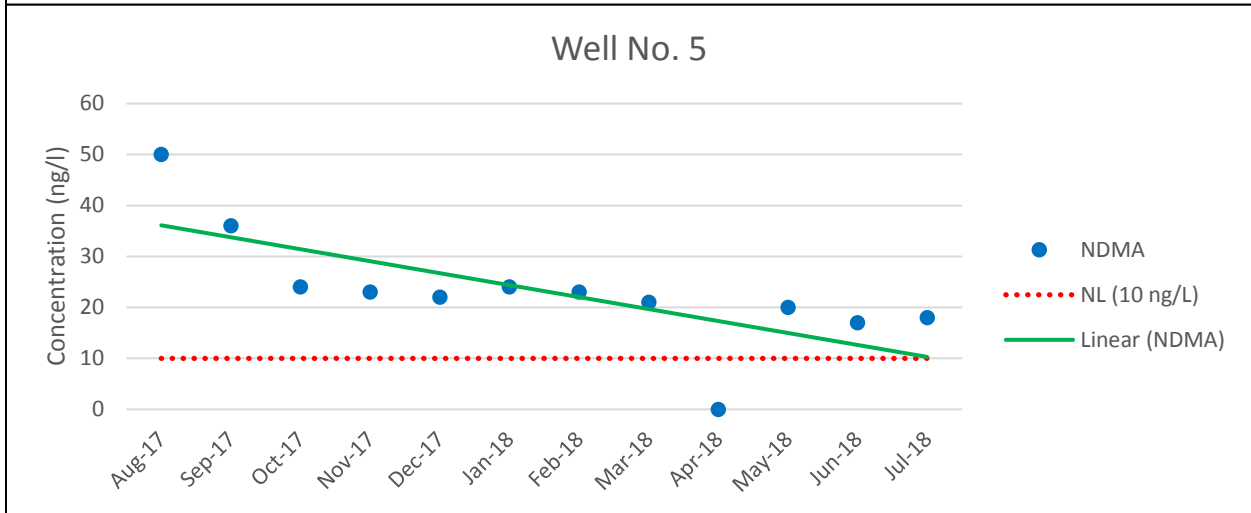
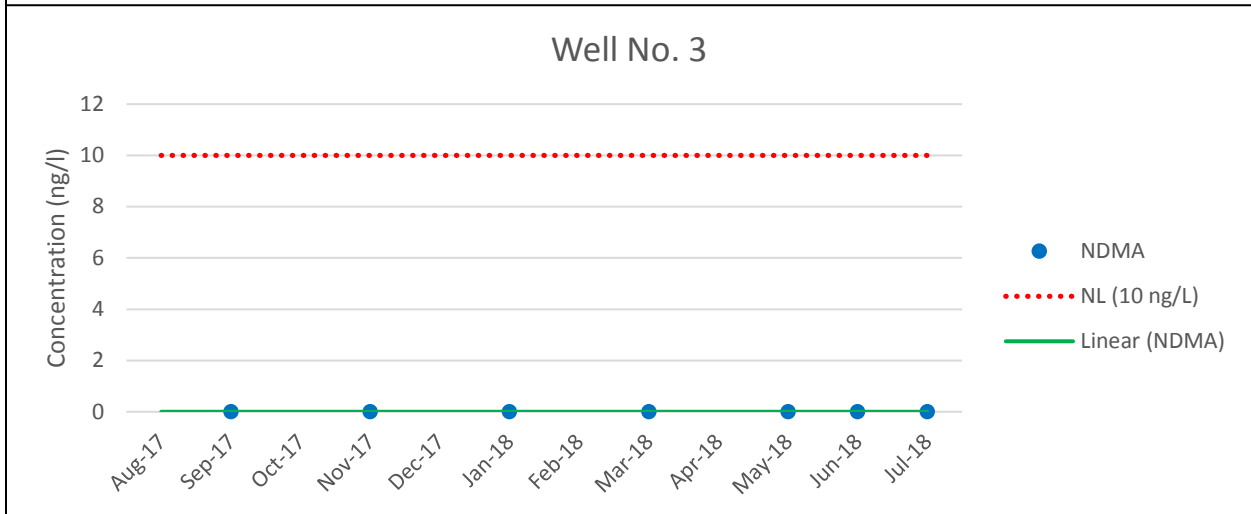
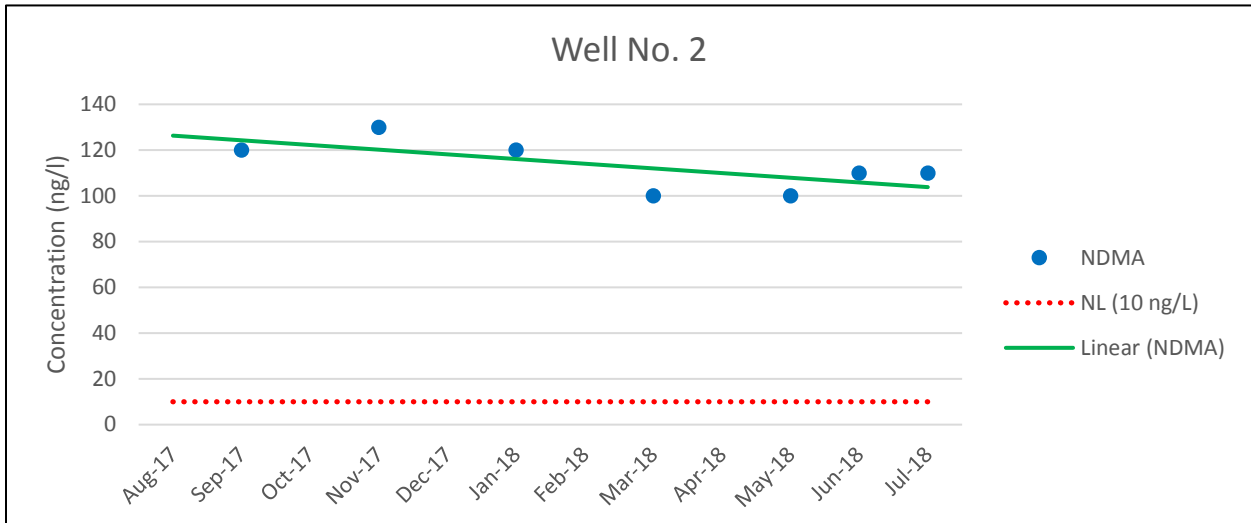


112 N First St.  
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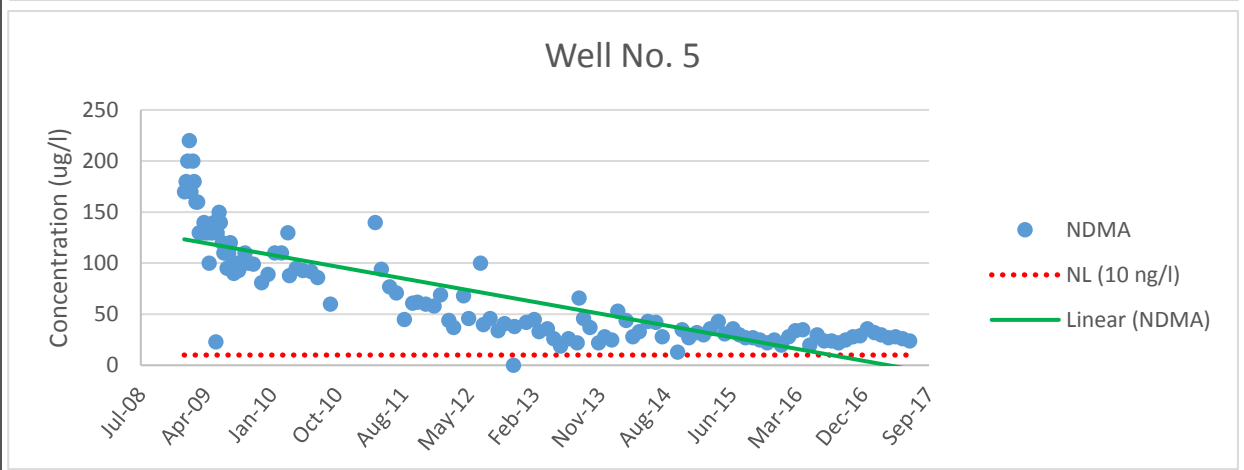
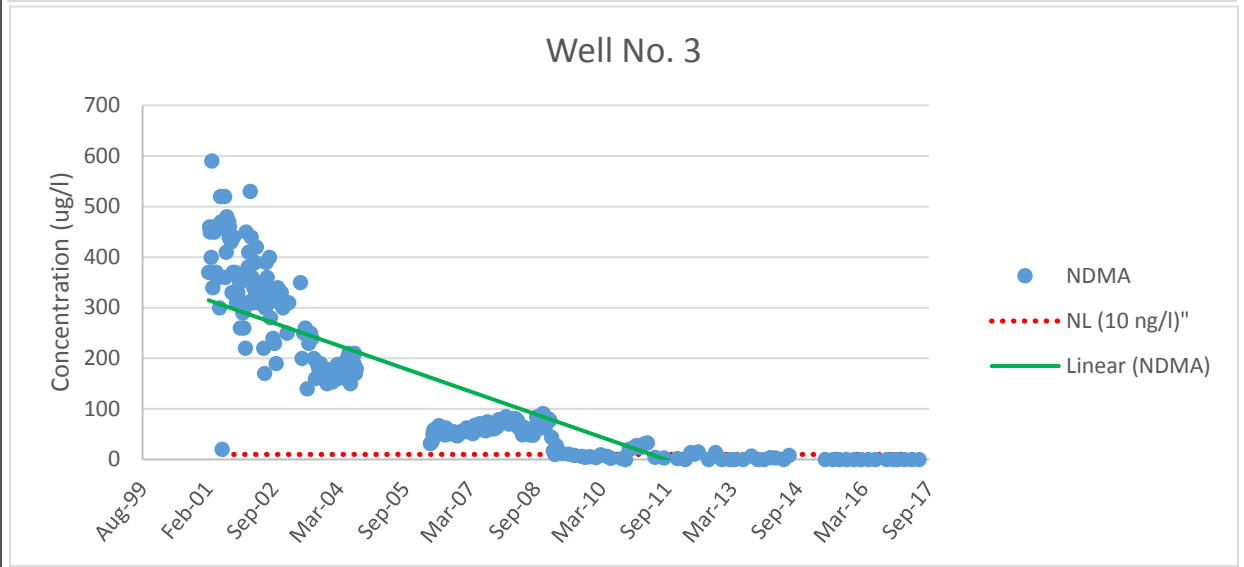
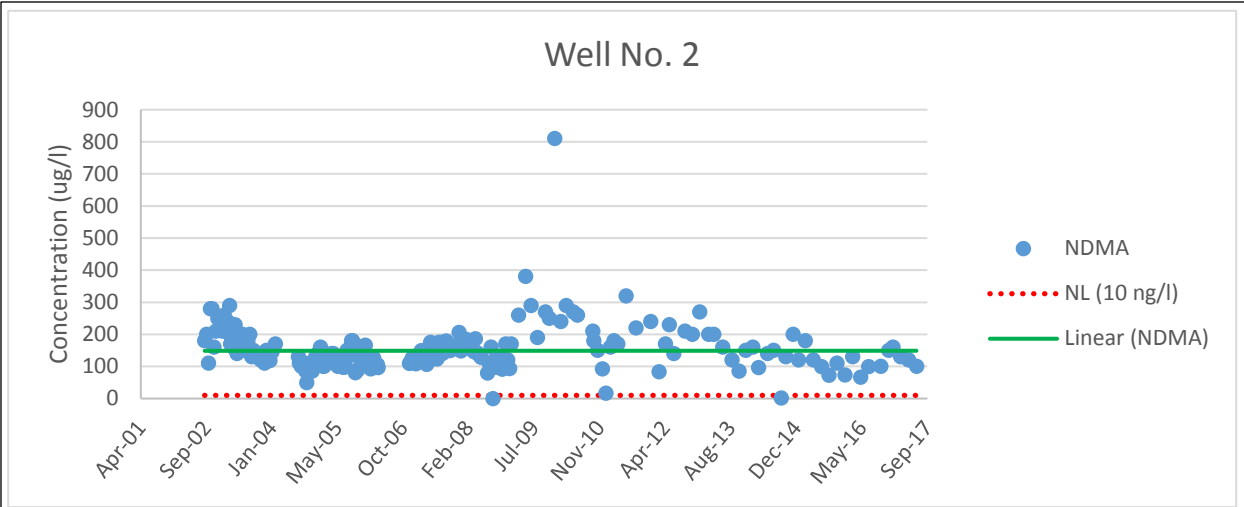
**FIGURE 6B**  
HISTORICAL RAW WATER  
NITRATE (AS NO<sub>3</sub>) CONCENTRATIONS




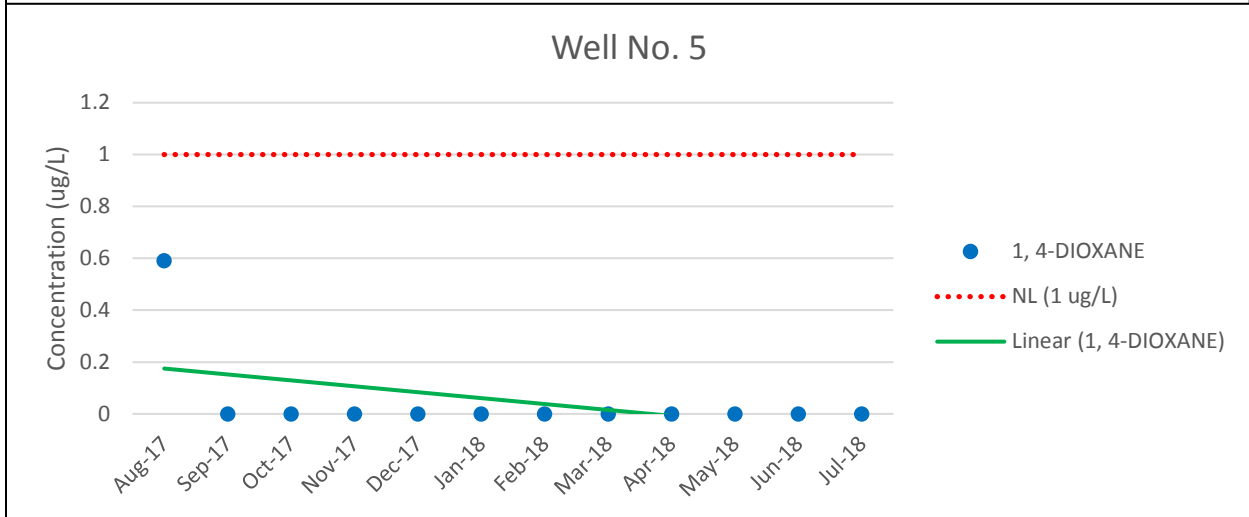
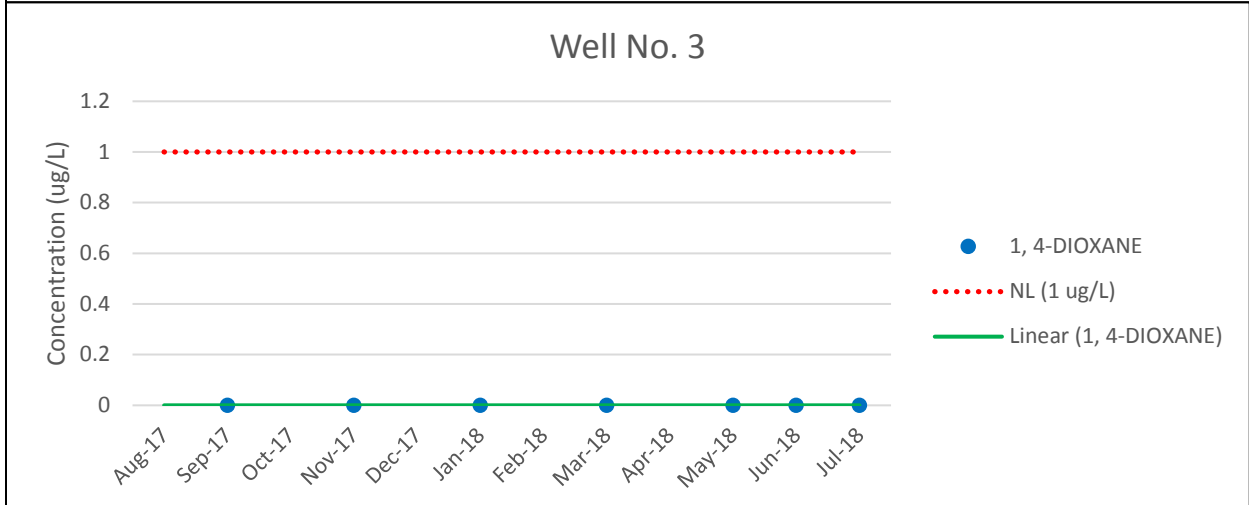
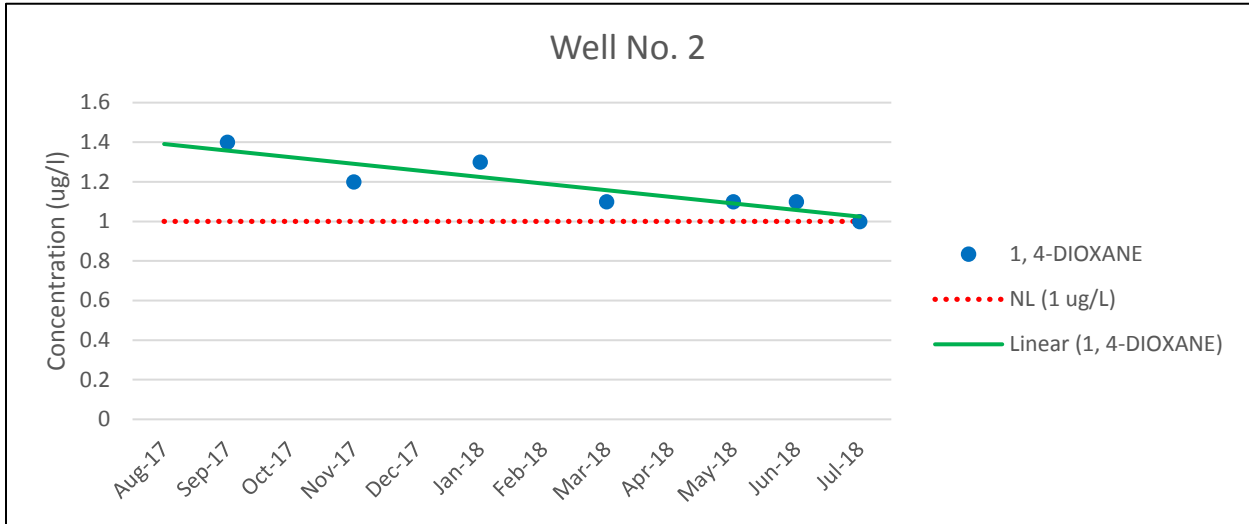
**FIGURE 6C**  
HISTORICAL RAW WATER  
NITRATE (AS N) CONCENTRATIONS



**FIGURE 7A**  
RAW WATER  
N-NITROSODIMETHYLAMINE (NDMA) CONCENTRATIONS  
AUGUST 2017 – JULY 2018

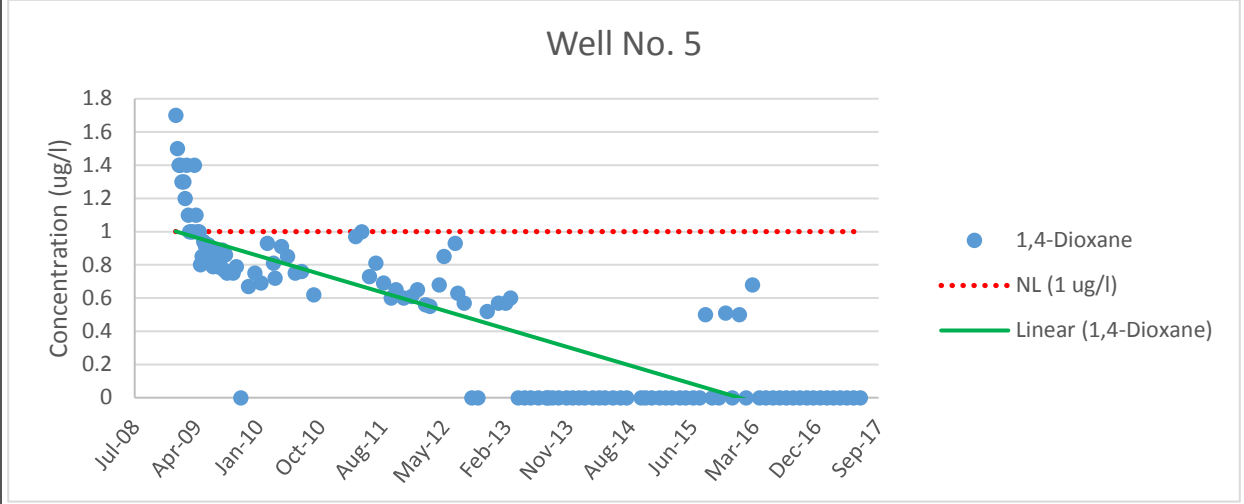
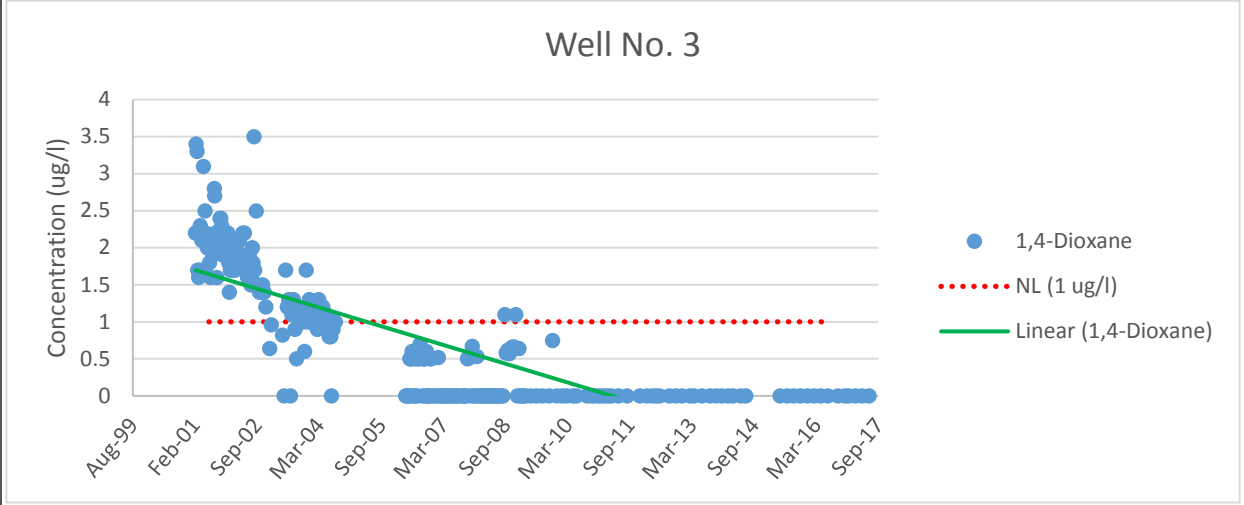
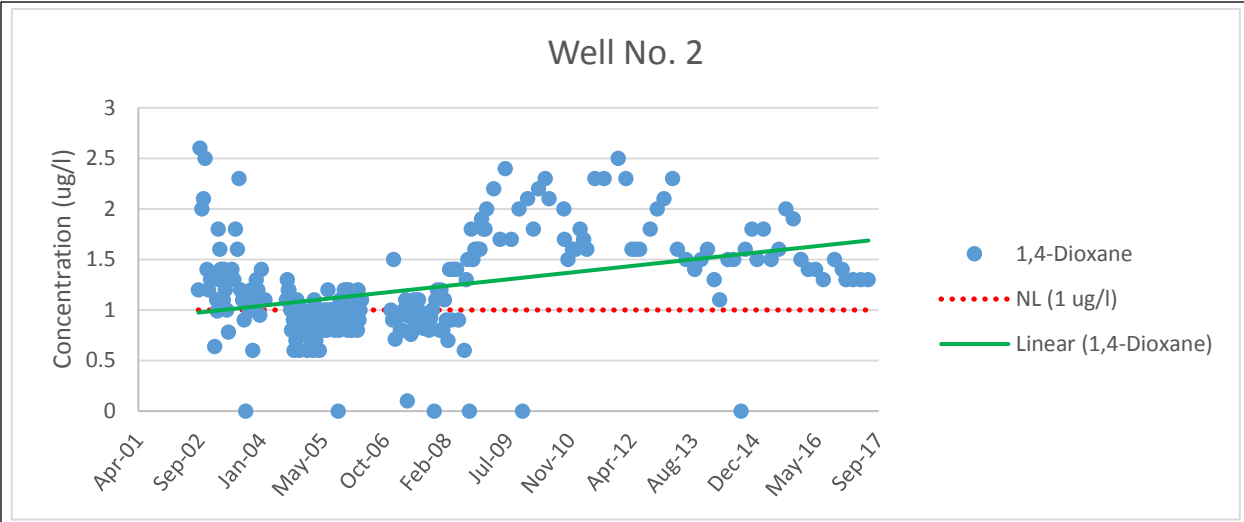


 <p>112 N First St. La Puente, CA 91744</p>	<p><b>FIGURE 7B</b> HISTORICAL RAW WATER N-NITROSODIMETHYLAMINE (NDMA) CONCENTRATIONS</p>
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La Puente, CA 91744

**FIGURE 8A**  
RAW WATER  
1,4-DIOXANE CONCENTRATIONS  
AUGUST 2017 – JULY 2018

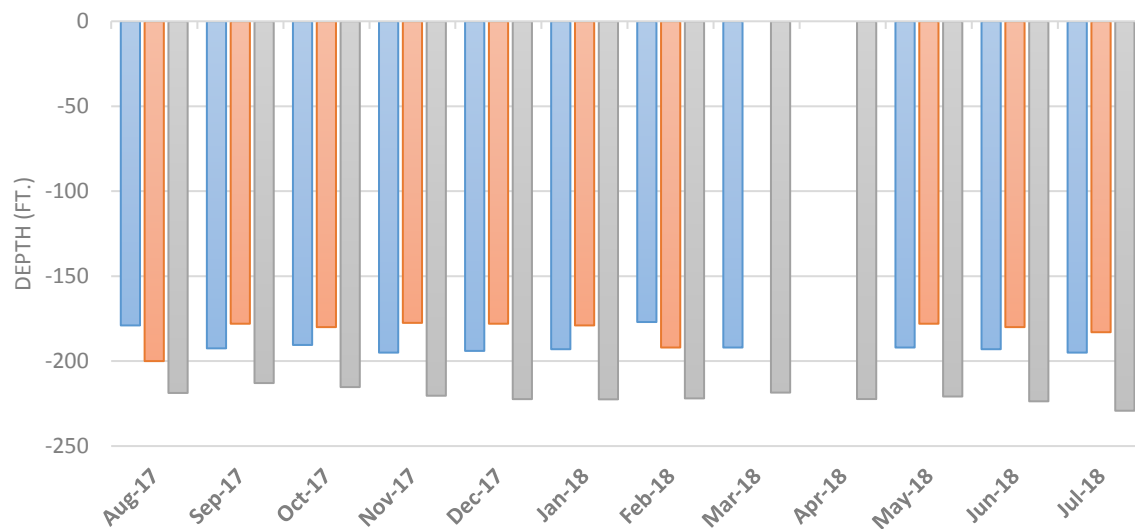


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**FIGURE 8B**  
HISTORICAL RAW WATER  
1,4-DIOXANE CONCENTRATIONS



## Wells No. 2, No. 3, and No. 5 Pumping Water Levels

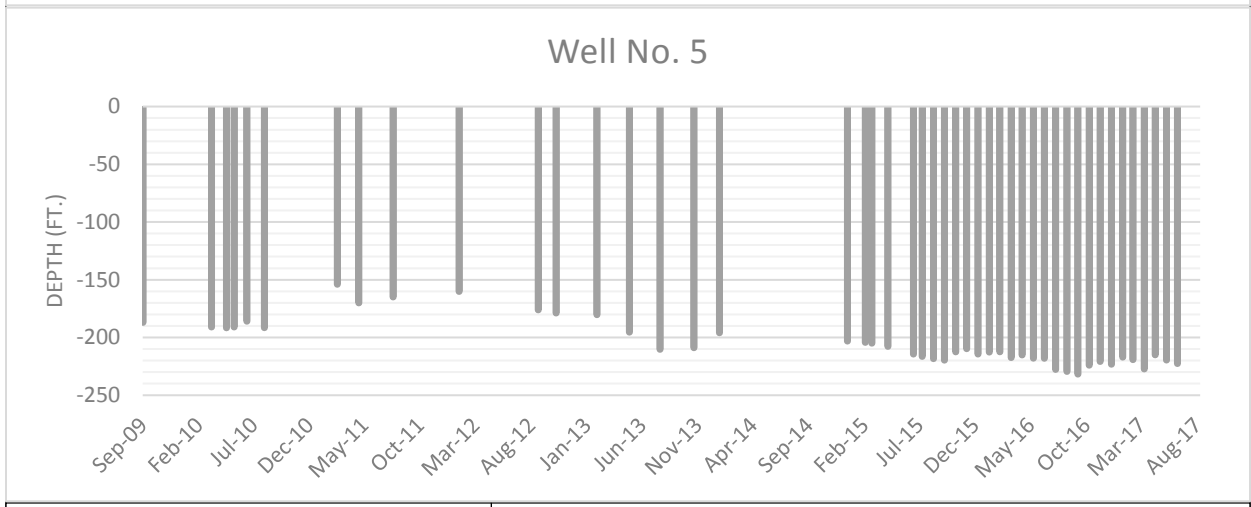
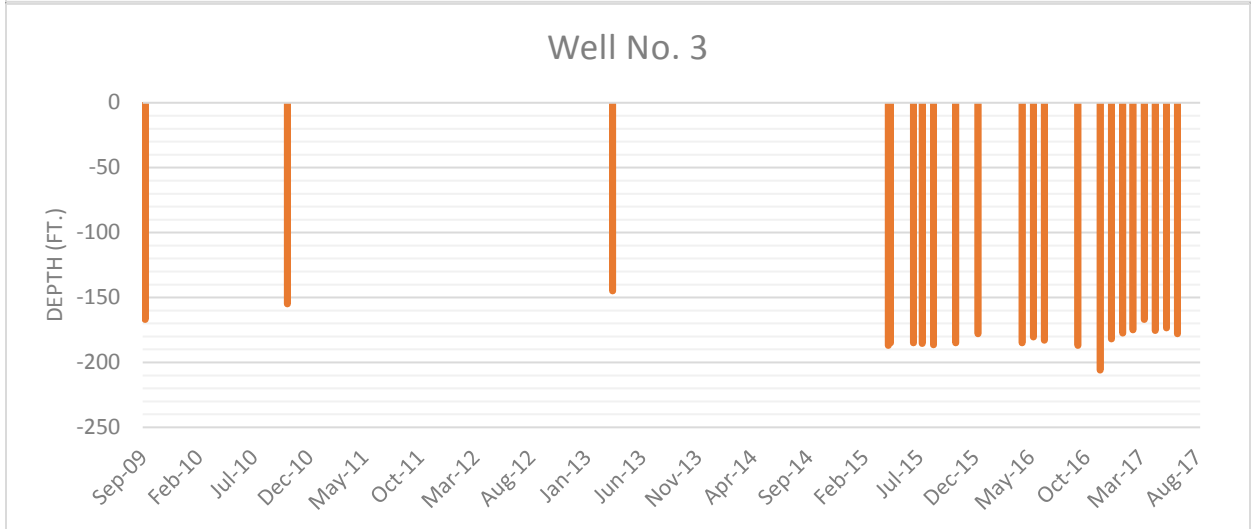
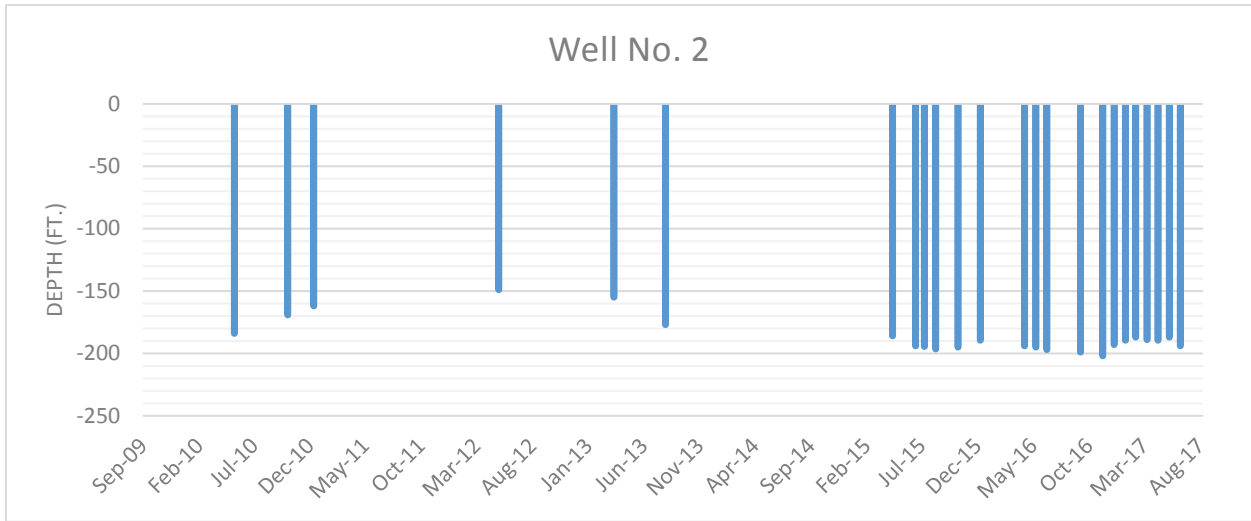


	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18
Well 2	-179	-192.5	-190.5	-195	-194	-193	-177	-192		-192	-193	-195
Well 3	-200	-178	-180	-177.5	-178	-179	-192			-178	-180	-183
Well 5	-218.75	-212.92	-215.29	-220.38	-222.38	-222.51	-221.95	-218.54	-222.33	-220.84	-223.67	-229.21



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**FIGURE 9**  
PUMPING WATER LEVELS  
WELL NO. 2, NO. 3, AND NO. 5  
AUGUST 2017 – JULY 2018




112 N First St.  
La Puente, CA 91744

**FIGURE 10**  
HISTORICAL PUMPING LEVELS  
WELL NO. 2, NO. 3, AND NO. 5

## TABLES

# Monthly Average Water Production


## August 2017 – July 2018

Month	Well Production			Total Amount of Water Processed (AF)	Plant Peak Flow (gpm)	Air Stripper 1		Air Stripper 2		Trojan	Average Hydrogen Peroxide Dosage (ppm)	Average Chlorine Residuals (ppm)		Average pH	
	Well No. 2	Well No. 3	Well No. 5			Air: Water Ratio (min.)	Average Flow (gpm)	Air: Water Ratio (min.)	Average Flow (gpm)			Number of banks in Operation	TP Effluent	TP Effluent	
Aug-17	98.56	114.28	93.35	306.19	<2500	49	1000	60	1275	16 / 16	6.86	1.18	7.81		
Sep-17	3.68	4.26	264.39	272.33	<2500	49	1000	60	1192	16 / 16	7.01	1.25	7.83		
Oct-17	9.29	10.84	268.31	288.44	<2500	47	1000	60	1210	16 / 16	6.69	1.23	7.82		
Nov-17	4.90	5.77	300.47	311.14	<2500	47	1000	61	1435	16 / 16	6.84	1.25	7.82		
Dec-17	14.73	17.26	266.14	298.13	<2500	45	1000	60	1322	16 / 16	6.93	1.27	7.84		
Jan-18	4.37	5.08	291.98	301.43	<2500	43	1000	53	1380	16 / 16	6.88	1.23	7.85		
Feb-18	4.85	5.59	273.48	283.92	<2500	43	1000	51	1401	16 / 16	6.61	1.24	7.83		
Mar-18	5.71	6.61	319.24	331.56	<2500	44	1000	51	1430	16 / 16	6.50	1.22	7.79		
Apr-18	0.00	0.00	300.5	300.50	<2500	45	1000	52	1353	16 / 16	3.34	1.23	7.77		
May-18	4.74	5.54	315.32	325.60	<2500	43	1000	N/A	N/A	16 / 16	0.11	1.22	7.68		
Jun-18	4.00	4.69	308.42	317.11	<2500	42	1000	52	1433	16 / 16	3.67	1.23	7.79		
Jul-18	18.34	22.09	291.21	331.64	<2500	42	1000	52	1442	16 / 16	3.66	1.18	7.82		

TOTALS	173.17	202.01	3292.81	3667.99
AVERAGE	14.43	16.83	274.40	305.67
MIN	0.00	0.00	93.35	272.33
MAX	98.56	114.28	319.24	331.64

**Notes:**

AF = acre-feet  
 gpm = gallons per minute  
 ppm = part per million

 <p>112 N First St. La Puente, CA 91744</p>	<p><b>TABLE 1</b></p> <p>MONTHLY AVERAGE WATER PRODUCTION</p> <p>AUGUST 2017 – JULY 2018</p>
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**Raw Water  
Trichloroethylene (TCE) Concentrations  
MCL = 5 ug/l**

TCE Concentrations August 2017 – July 2018			
Date	Well 2	Well 3	Well 5
Aug-17	62	1.2	18
Sep-17	55	0.69	12
Oct-17			12
Nov-17	70	0.63	12
Dec-17			12
Jan-18	53	0.52	12
Feb-18			12
Mar-18	61	0	12
Apr-18			10
May-18	50	0	9.5
Jun-18	55	0	10
Jul-18	43	0.51	9.6
AVERAGE	56.1	0.4	11.8
MINIMUM	46	0	9.5
MAXIMUM	70	1.2	18

NOTES:

All units reported in micrograms per liter (ug/l)

MCL = Maximum Contaminant Level

Concentrations levels listed in **RED** are at or above the MCL



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**TABLE 2**  
RAW WATER  
TRICHLOROETHYLENE (TCE) CONCENTRATIONS  
AUGUST 2017 – JULY 2018

**Raw Water  
Tetrachloroethylene (PCE) Concentrations  
MCL = 5 ug/l**

PCE Concentrations August 2017 – July 2018			
Date	Well 2	Well 3	Well 5
Aug-17	3.1	0	1.6
Sep-17	3.2	0	1.1
Oct-17			1.1
Nov-17	3.4	0	1
Dec-17			1.1
Jan-18	2.9	0	1
Feb-18			0.89
Mar-18	2.6	0	0.84
Apr-18			0.98
May-18	3.3	0	0.82
Jun-18	2.9	0	0.88
Jul-18	2.5	0	0.89
AVERAGE	3.0	0	1.02
MINIMUM	2.5	0	0.82
MAXIMUM	3.4	0	1.6

NOTES:

All units reported in micrograms per liter (ug/l)

MCL = Maximum Contaminant Level

Concentrations levels listed in **RED** are at or above the MCL



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La Puente, CA 91744

**TABLE 3**  
RAW WATER  
TETRACHLOROETHYLENE (PCE) CONCENTRATIONS  
AUGUST 2017 – JULY 2018

**Raw Water  
Carbon Tetrachloride (CTC) Concentrations  
MCL = 0.5 ug/l**

CTC Concentrations August 2017– July 2018			
Date	Well 2	Well 3	Well 5
Aug-17	2.1	0	0.62
Sep-17	2.2	0	0
Oct-17			0
Nov-17	3	0	0.55
Dec-17			0.58
Jan-18	2.2	0	0.51
Feb-18			0
Mar-18	2.3	0	0.52
Apr-18			0
May-18	2.2	0	0
Jun-18	2	0	0
Jul-18	1.5	0	0
AVERAGE	2.2	0	0.23
MINIMUM	1.5	0	0
MAXIMUM	3	0	0.62

NOTES:

All units reported in micrograms per liter (ug/l)

MCL = Maximum Contaminant Level

Concentrations levels listed in **RED** are at or above the MCL



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**TABLE 4**  
RAW WATER  
CARBON TETRACHLORIDE (CTC) CONCENTRATIONS  
AUGUST 2017 – JULY 2018

**Raw Water**  
**1,2-Dichloroethane (1,2-DCA) Concentrations**  
**MCL = 0.5 ug/l**

1,2-DCA Concentrations August 2017 – July 2018			
Date	Well 2	Well 3	Well 5
Aug-17	1.6	0	0.51
Sep-17	1.6	0	0
Oct-17			0
Nov-17	1.5	0	0
Dec-17			0
Jan-18	1.3	0	0
Feb-18			0
Mar-18	1.5	0	0
Apr-18			0
May-18	1.4	0	0
Jun-18	1.5	0	0
Jul-18	1.2	0	0
AVERAGE	1.5	0	0.0
MINIMUM	1.2	0	0
MAXIMUM	1.6	0	0.51

NOTES:

All units reported in micrograms per liter (ug/l)

MCL = Maximum Contaminant Level

Concentrations levels listed in **RED** are above the MCL



112 N First St.  
La Puente, CA 91744

**TABLE 5**  
**RAW WATER**  
**1,2-DICHLOROETHANE (1,2-DCA) CONCENTRATIONS**  
**AUGUST 2017 – JULY 2018**



**Raw Water  
Perchlorate Concentrations  
MCL = 6 ug/l**

Perchlorate Concentrations August 2017– July 2018			
Date	Well 2	Well 3	Well 5
Aug-17			18
Sep-17	35	7.2	14
Oct-17			14
Nov-17	38	9.3	17
Dec-17			16
Jan-18	37	8.2	15
Feb-18			16
Mar-18	36	8.3	16
Apr-18			15
May-18	20	6	9.2
Jun-18	34	6.9	15
Jul-18	33	6.3	11
AVERAGE	33.3	7	14.7
MINIMUM	20	6	9.2
MAXIMUM	38	9.3	18

NOTES:

All units reported in micrograms per liter (ug/l)

MCL = Maximum Contaminant Level

Concentrations levels listed in **RED** are above the MCL



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La Puente, CA 91744

**TABLE 6**  
RAW WATER  
PERCHLORATE CONCENTRATIONS  
AUGUST 2017 – JULY 2018

**Raw Water  
Nitrate Concentrations  
MCL = 10 mg/l**

Nitrate Concentrations August 2017 – July 2018			
Date	Well 2	Well 3	Well 5
Aug-17			7
Sep-17	6.8	8.1	7.4
Oct-17			7.6
Nov-17	6.4	8.2	7.4
Dec-17			7.5
Jan-18	6.2	7.7	7.6
Feb-18			7.3
Mar-18	6.3	7.6	7.7
Apr-18			8.2
May-18	7.2	8.6	8.0
Jun-18	7.7	9.4	7.7
Jul-18	7.1	8.6	7.7
AVERAGE	6.8	8	7.6
MINIMUM	6.2	7.6	7
MAXIMUM	7.7	9.4	8.2

NOTES:

All units reported in milligrams per liter (mg/l)

MCL = Maximum Contaminant Level

Concentrations levels listed in **RED** are above the MCL



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**TABLE 7**  
RAW WATER  
NITRATE CONCENTRATIONS  
AUGUST 2017 – JULY 2018

**Raw Water  
NDMA Concentrations  
MCL = 10 ng/l**

NDMA Concentrations August 2017 – July 2018			
Date	Well 2	Well 3	Well 5
Aug-17			50
Sep-17	120	0	36.00
Oct-17			24.00
Nov-17	130	0	23.00
Dec-17			22.00
Jan-18	120	0	24.00
Feb-18			23.00
Mar-18	100	0	21.00
Apr-18			0.00
May-18	100	0	20.00
Jun-18	110	0	17.00
Jul-18	110	0	18.00
AVERAGE	112.9	0	23.2
MINIMUM	100	0	0
MAXIMUM	130	0	50

NOTES:

All units reported in Nano grams per liter (ng/l)

MCL = Maximum Contaminant Level

Concentrations levels listed in **RED** are above the MCL



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**TABLE 8**  
RAW WATER  
NDMA CONCENTRATIONS  
AUGUST 2017 – JULY 2018

**Raw Water  
1,4-Dioxane Concentrations  
MCL = 1 ug/l**

1,4-Dioxane Concentrations August 2017 – July 2018			
Date	Well 2	Well 3	Well 5
Aug-17			0.59
Sep-17	1.4	0	0
Oct-17			0
Nov-17	1.2	0	0
Dec-17			0
Jan-18	1.3	0	0
Feb-18			0
Mar-18	1.1	0	0
Apr-18			0
May-18	1.1	0	0
Jun-18	1.1	0	0
Jul-18	1	0	0
AVERAGE	1.2	0	0
MINIMUM	1	0	0
MAXIMUM	1.4	0	0.59

NOTES:

All units reported in micrograms per liter (ug/l)

MCL = Maximum Contaminant Level

Concentrations levels listed in **RED** are above the MCL



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**TABLE 9**  
RAW WATER  
1,4-DIOXANE CONCENTRATIONS  
AUGUST 2017 – JULY 2018

**Well No. 2  
(600 - 940 feet below ground surface)**

Contaminant	Design Concentration (ug/l)*				Historic High (ug/l)*	2017-2018 Water Quality Statistics (ug/l)*		
	AS 1	AS 2	SPIX	UV/Peroxide		Min.	Mean	Max.
TCE	28.4	43.9			120	43	56.1	70
PCE					6.6	2.5	3	3.4
CTC	2.6	7			6.1	1.5	2.2	3
1,2-DCA		12.5			6.1	1.2	1.5	1.6
Perchlorate			60		180	20	33.3	38
Nitrate					9.5 mg/l	6.2 mg/l	6.8 mg/l	7.7 mg/l
NDMA				3000 ng/l	870 ng/l	100 ng/l	112.9 ng/l	130 ng/l
1,4-Dioxane				3.4	3.2	1	1.2	1.4

**Well No. 3  
(620 - 770 feet below ground surface)**

Contaminant	Design Concentration (ug/l)*				Historic High (ug/l)*	2017-2018 Water Quality Statistics (ug/l)*		
	AS 1	AS 2	SPIX	UV/Peroxide		Min.	Mean	Max.
TCE	28.4	43.9			90	0	0.4	1.2
PCE					6.3	0	0	0
CTC	2.6	7			7.1	0	0	0
1,2-DCA		12.5			7.1	0	0	0
Perchlorate			60		160	6	7	9.3
Nitrate					10 mg/l	7.6 mg/l	8 mg/l	9.4 mg/l
NDMA				3000 ng/l	160 ng/l	0 ng/l	0 ng/l	0 ng/l
1,4-Dioxane				3.4	3.4	0	0	0

**Well No. 5  
(590 - 770 feet below ground surface)**

Contaminant	Design Concentration (ug/l)*				Historic High (ug/l)*	2017-2018 Water Quality Statistics (ug/l)*		
	AS 1	AS 2	SPIX	UV/Peroxide		Min.	Mean	Max.
TCE	28.4	43.9			40	9.5	11.8	18
PCE					3.8	0.8	1	1.6
CTC	2.6	7			2.2	0	0.2	0.6
1,2-DCA		12.5			2.5	0	0	0.5
Perchlorate			60		60	9.2	14.7	18
Nitrate					7.9 mg/l	7 mg/l	7.6 mg/l	8.2 mg/l
NDMA				3000 ng/l	250 ng/l	0 ng/l	23.2 ng/l	50 ng/l
1,4-Dioxane				3.4	1.8	0	0	0.6

\* or as listed



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**TABLE 10**  
Raw Water Design Parameters

**Treatment Facility Efficiency  
Treated Water (SP6)  
August 2017 – July 2018**

Treatment Facility Efficiency August 2017 – July 2018							
Date	TCE	PCE	CTC	1,2-DCA	ClO <sub>4</sub>	NDMA	1,4 - Dioxane
Aug-17	ND	ND	ND	ND	ND	ND	ND
Sep-17	ND	ND	ND	ND	ND	ND	ND
Oct-17	ND	ND	ND	ND	ND	ND	ND
Nov-17	ND	ND	ND	ND	ND	ND	ND
Dec-17	ND	ND	ND	ND	ND	ND	ND
Jan-18	ND	ND	ND	ND	ND	ND	ND
Feb-18	ND	ND	ND	ND	ND	ND	ND
Mar-18	ND	ND	ND	ND	ND	ND	ND
Apr-18	ND	ND	ND	ND	ND	ND	ND
May-18	ND	ND	ND	ND	ND	ND	ND
Jun-18	ND	ND	ND	ND	ND	ND	ND
Jul-18	ND	ND	ND	ND	ND	ND	ND

Removal Efficiency (%)	100	100	100	100	100	100	100
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**TABLE 11**  
TREATED WATER  
AUGUST 2017 – JULY 2018

## SP 10 Combined SPIX Nitrate Effluent Concentrations

### MCL = 10 mg/l

Date Sampled	EPA Method	Results
8/7/17	EPA 353.2	7.2
8/14/17	EPA 353.2	7.0
8/21/17	EPA 353.2	7.6
8/28/17	EPA 353.2	7.2
9/5/17	EPA 353.2	7.5
9/11/17	EPA 300.0	8.0
9/14/17	EPA 353.2	5.1
9/18/17	EPA 353.2	7.4
9/25/17	EPA 353.2	7.4
10/2/17	EPA 353.2	7.3
10/9/17	EPA 353.2	7.6
10/16/17	EPA 353.2	7.5
10/16/17	EPA 353.2	7.6
10/23/17	EPA 353.2	7.7
11/1/17	EPA 353.2	7.3
11/6/17	EPA 353.2	7.5
11/14/17	EPA 353.2	6.8
11/20/17	EPA 353.2	7.2
11/27/17	EPA 353.2	6.8
12/4/17	EPA 353.2	7.6
12/11/17	EPA 353.2	7.3
12/18/17	EPA 353.2	7.2
12/26/17	EPA 353.2	7.5
1/2/18	EPA 353.2	7.6
1/8/18	EPA 353.2	7.6
1/16/18	EPA 353.2	7.5
1/22/18	EPA 353.2	7.2
1/30/18	EPA 353.2	6.7
2/5/18	EPA 353.2	7.3

Date Sampled	EPA Method	Results
2/13/18	EPA 353.2	7.6
2/21/18	EPA 353.2	7.7
2/27/18	EPA 353.2	7.4
3/5/18	EPA 353.2	7.6
3/13/18	EPA 353.2	7.4
3/19/18	EPA 353.2	7.8
3/26/18	EPA 353.2	7.8
4/2/18	EPA 353.2	7.7
4/9/18	EPA 353.2	7.7
4/16/18	EPA 353.2	6.9
4/23/18	EPA 353.2	6.5
5/1/18	EPA 353.2	7.8
5/7/18	EPA 353.2	7.6
5/14/18	EPA 353.2	7.8
5/21/18	EPA 353.2	8.0
5/29/18	EPA 353.2	7.4
6/4/18	EPA 300.0	8.6
6/5/18	EPA 300.0	8.7
6/11/18	EPA 353.2	7.3
6/18/18	EPA 353.2	7.8
6/25/18	EPA 353.2	8.2
7/2/18	EPA 353.2	7.6
7/9/18	EPA 300.0	8.0
7/9/18	EPA 353.2	7.7
7/16/18	EPA 300.0	7.9
7/16/18	EPA 353.2	7.0
7/23/18	EPA 300.0	7.7
7/23/18	EPA 353.2	6.3
7/30/18	EPA 300.0	7.9
7/30/18	EPA 353.2	7.7

AVERAGE	7.46
MINIMUM	5.1
MAXIMUM	8.7



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**TABLE 11A**  
SP-10 COMBINED SPIX NITRATE EFFLUENT  
NITRATE CONCENTRATIONS  
AUGUST 2017 – JULY 2018

## Treatment Facility Operational Incidents August 2017 – July 2018

<i>Operational Incidents</i>	<i>Date</i>	<i>Time (hrs)</i>	<i>Planned?</i>	<i>Corrective Action Taken</i>
Edison Power Outage	8/2/2017	0.85	NO	Scada reset and plant restarted
Switch Wells 2 & 3 to Well 5	8/21/2017	0.30	YES	Switch power to Well 5 and restarted plant
Edison Power Outage	8/30/2017	1.75	NO	Power restored by Edison
Well NO. 5 VFD Fault, Overtemp	9/1/2017	0.33	NO	Cooled, reset and plant restarted
Switch Well 5 to Well 2 & 3	9/18/2018	0.21	YES	Switch power to Well 2 and restarted plant
Switch Wells 2 & 3 to Well 5	9/19/2017	0.26	YES	Switch power to Well 5 and restarted plant
Switch Wells for monthly run, Well 5 to Wells 2 & 3	10/10/2017	0.20	YES	Switch power to Well 2 and restarted plant
Switch Wells back from monthly run, Wells 2 & 3 to Well 5	10/11/2017	0.28	YES	Switch power to Well 5 and restarted plant
Switch Wells for SGVWC Request for DEHP	10/16/2017	0.20	YES	Switch power to Well 2 and Well 5 and restarted plant
Switch Wells back from SGVWC Request for DEHP	10/17/2017	0.28	YES	Switch power to Well 2 and Well 5 and restarted plant
Carbon Change Out for both Air Strippers	10/26/2017	7.88	YES	Performed maintenance and restarted plant
Switch Wells for quarterly run, Well 5 to Wells 2 & 3	11/13/2017	0.16	YES	Switch power to Well 5 and restarted plant
Switch Wells back from quarterly run, Wells 2 & 3 to Well 5	11/14/2017	0.26	YES	Switch power to Well 5 and restarted plant
Well NO. 5 VFD Fault- Cooling fan failure	12/17/2017	2.66	NO	Cooled, reset and plant restarted
Switch Wells back from 2 & 3 to Well 5 after repairs, Well NO.5 Breaker Failure	12/20/2017	1.61	YES/NO	Repaired and restarted
Edison Maintenance Power Outage	1/12-1/13 2018	16.40	NO	Power restored by Edison
Edison Maintenance Power Outage	1/23-1/24 2018	15.33	NO	Power restored by Edison
Switch Well NO. 5 to Wells 2 & 3	1/29/2018	0.26	YES	Switch power to Well 2 and restarted plant
Switch Wells 2 & 3 to Well NO. 5	1/30/2018	0.28	YES	Switch power to Well 5 and restarted plant
Switched from Well 5 to Wells 2 & 3, for monthly run	2/21/2018	0.18	YES	Switch power to Well 2 and restarted plant
Switched back from Wells 2 & 3 to Well 5, Normal Operations	2/22/2018	0.20	YES	Switch power to Well 5 and restarted plant
Switch Wells for Quarterly Sampling, Well 5 to Wells 2 & 3	3/14/2018	0.20	YES	Switch power to Well 2 and restarted plant
Switch Wells after quarterly Sampling, Wells 2 & 3 to Well 5	3/15/2018	0.25	YES	Switch power to Well 2 and restarted plant
Edison Outage/Surge, No Faults, Well # 5 Shut Down	3/19/2018	0.86	NO	Power restored by Edison



## Treatment Facility Operational Incidents August 2017 – July 2018

<i>Operational Incidents</i>	<i>Date</i>	<i>Time (hrs)</i>	<i>Planned?</i>	<i>Corrective Action Taken</i>
Edison Outage/Surge, Blower Motor # 2 Fault	3/25/2018	1.60	NO	Power restored by Edison
Influent Booster #2 VFD Faulted-Over Temp, VFD Fan Failed, Replaced	3/28/2018	1.16	NO	Repaired and restarted plant
Edison Outage/Surge, INF. Boosters VFD's Faulted & EFF. Booster 1 VFD Faulted	3/31/2018	1.81	NO	Power restored by Edison
Chlorine Pump Feed Line Failure in Clamshell	4/25/2018	1.03	NO	Repaired and restarted plant
Switch from Well No. 5 to Wells 2 & 3	4/30/2018	0.20	YES	Switch power to Well 2 and restarted plant
Switch from Wells 2 & 3 to Well 5	5/1/2018	0.28	YES	Switch power to Well 5 and restarted plant
Blower Motors NO. 1 and NO. 2, Faulted, Edison Power	5/2/2018	4.76	NO	Power restored by Edison
Plant Shutdown, no faults, Edison Power Outage	5/11/2018	6.20	NO	Power restored by Edison
Switch from Well NO. 5 to Wells 2 & 3	6/5/2018	0.38	YES	Switch power to Well 2 and restarted plant
Switch from Well 2 & 3 to Well 5	6/6/2018	0.26	YES	Switch power to Well 5 and restarted plant
Air Stripper Inspections, Blower Belts Maintenance and TP Maintenance	6/15/2018	6.98	YES	Performed maintenance and restarted plant
Edison Power Outage or Surge	6/19/2018	0.83	NO	Power restored by Edison
Well 5 VFD Faulted on Over-Temperature	7/6/2018	1.22	NO	Reset and restarted plant
Switched back to Well 5 from Wells 2 & 3	7/10/2018	0.48	YES	Switch power to Well 2 and restarted plant



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**TABLE 12**  
OPERATIONAL INCIDENTS  
AUGUST 2017 – JULY 2018

## Annual Raw Water Sampling Results

CONTAMINANT	UNITS	MCL OR NL	Well 5
VOCs			
Dichlorodifluoromethane (Freon 12)	mg/l	1*	0.56
Tetrachloroethene	ug/l	5	0.98
Trichloroethene	ug/l	5	9.4
VOC TICs			ND
SVOCs			ND
SVOC TICs			ND
1,2,3-TCP	ug/l	0.005*	ND

NOTES:

\*NL = Notification Level

MCL = Maximum Contaminant Level

ug/l = micrograms per liter

mg/l = milligrams per liter

ND = Not Detect

Concentrations levels listed in **RED** are at or above the MCL



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**TABLE 13**  
ANNUAL RAW WATER SAMPLING  
AUGUST 2017 – JULY 2018

## Upgradient Water Quality Sampling Results August 2017 – July 2018\*

Contaminant	MCL or NL (ug/l)	LPVCDW Design Influent Concentration (ug/l)		Upgradient Surveillance Wells	
				VCWD Big Dalton @ 335' (ug/l)	SGVWC Well B6C (ug/l)
VOCs				--	--
TCE	5	28.4 AS 1	43.9 AS 2	ND	0.67
VOC TICs	--	--	--	ND	ND
SVOCs	--	--		ND	ND
SVOC TICs				ND	ND
Perchlorate	6	60 (SPIX)		11	14
1,4-Dioxane	1*	3.4 (UV/Peroxide)		ND	ND
NDMA	10 ng/l*	3000 ng (UV/Peroxide)		ND	ND
1,2,3-TCP	5 ng/l*	--		ND	ND
Nitrate as N	10 mg/l	--		17	22

\*Samples taken on 9/6/18 through DDW approval

**NOTES:**

SPIX = Single Pass Ion Exchange

MCL = Maximum Contaminant Level

Concentrations levels listed in **RED** are at or above the MCL

AS 1 = Air Stripper 1

AS 2 = Air Stripper 2

MCL = Maximum Contaminant Level

NL = Notification Level

ND = Not detected

\*NL

VCWD = Valley County Water District

SGVWC = San Gabriel Valley Water Company

VOCs = Volatile Organic Compounds

TICs = Tentatively-Identified Compounds

SVOCs = Semi-VOCs

ug/l = micrograms per liter

ng/l = nanograms per liter

mg/l = milligrams per liter



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### TABLE 14

UPGRADIENT WATER QUALITY SAMPLING RESULTS  
AUGUST 2017 – JULY 2018





## San Gabriel Valley Water Company Historical Levels for Well B6C

Contaminant	MCL or NL	San Gabriel Valley Water Company Well B6C											
		07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	
VOCs													
TCE (ug/l)	5 (ug/l)	9.5	7.6	4.6	72	2.5	3	3.1	1.3	1.3			0.67
PCE (ug/l)	5 (ug/l)	1	0.73	0.61	1.4	0.62	--	--	--	--			0
CTC (ug/l)	0.5 (ug/l)	0	0	0	--	--	--	--	--	--			0
1,2-DCA (ug/l)	0.5 (ug/l)	0.83	0.73	0.55	2.8	--	--	--	--	--			0
Carbon Disulfide (ug/l)	160 (ug/l)	0	--	--	--	--	--	--	--	--			0
Carbon Tetrachloride (ug/l)	0.5 (ug/l)	--	--	--	7.9	--	--	--	--	--			0
Chloroform (ug/l)	80 (ug/l)	0.88	0.78	0.74	2.2	--	--	0.75	0.59	0.62			0
cis-1,2-Dichloroethene	6 (ug/l)	--	0	0	1.2	--	--	--	--	--			0
Dibromochloromethane (ug/l)	80 (ug/l)	0	--	--	--	--	--	--	--	--			0
Dichlorodifluoromethane (ug/l)	1000* (ug/l)	0	0	0	1.4	--	--	--	--	--			0
VOC TICs		0		0	0	0	--	0	0	0			0
Unknown #1		--	2.1	--	--	--	--	--	--	--			--
Unknown #1 (possible ethanol)		--	--	--	--	--	1.8	--	--	--			--
SVOCs		0	0	0	0	0	0	0	0	0			0
Bis(2-chloroethyl)ether		--	--	0	--	--	--	--	--	--			--
Bis(2-Ethylhexyl) Phthalate (ug/l)		--	--	--	--	--	--	--	--	--			--
SVOC TICs				0	0		0	0		--			0
Benzenesulfonamide, N,4-dim.. (ug/l)		--	--	--	--	--	--	--	--	--			--
Butylated Hydroxytoluene (ug/l)		--	--	--	--	--	--	--	--	--			--
1-Decene (ug/l)		--	--	--	--	--	--	--	--	--			--
Cyclohexasiloxane, dodecamethyl- (ug/l)		--		--	--	2.6	--	--	--	--			--
2,5-Cyclohexadiene-1,4-dione,2 (ug/L)		--	--	--	--	--	--	--	--	--			--
Heptacosane (ug/l)		--	--	--	--	--	--	--	--	--			--
Heptacosane Isomer1 (ug/l)		--	--	--	--	--	--	--	--	--			--
Heptacosane Isomer2 (ug/l)		--	--	--	--	--	--	--	--	--			--
Tetratetracontane		--	--	--	--	--	--	--	--	--			--
Ukn (possible Furan, ug/l)		--	5.4	--	--	--	--	--	--	--			--
Ukn (possible carboxylic acid) (ug/l)		--	--	--	--	8	--	--	--	--			--
Ukn (possible column bleeding) (ug/l)		--	--	--	--	7.3	--	--	--	--			--
Unknown #1 (ug/l)		--	--	--	--	7.9	--	--	34	14			--
Unknown #2 (ug/l)		--	--	--	--	--	--	--	--	--			--
Unknown #3 (ug/l)		--	--	--	--	--	--	--	--	--			--
Atrazine (ug/l)	1 (ug/l)	0	0	--	--	--	--	--	--	--			--
Perchlorate (ug/l)	6 (ug/l)	29	28	23	71	22	22	23	16	18			14
1,4-Dioxane (ug/l)	3 (ug/l)	0	--	0	2	0	0	0	0	0			0
NDMA (ng/l)	10 (ng/l)	99	130	39	150	6.9	6.9	11	2.7	0			0
1,2,3-TCP (ng/l)	5 (ng/l)	0	0	0	0	0	0	0	0	0			0
Nitrate as N (mg/l)	10 (mg/l)	16.9	19.7	20.3	3.8	20.1	20.1	21	21.9	22			22
Chromium VI (ug/l)	10 (ug/l)	3.1	4	3.9	--	--	--	--	--	--			4.1
		0			1/2 MCL					>= MCL			



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**TABLE 17**  
HISTORICAL LEVELS FOR WELL 6BC  
2007-2018



*City of La Puente*

# *Holiday Parade*

## *And Tree Lighting Ceremony*

***Friday, December 7, 2018***

***Parade starts at 5:30 p.m.***

***Join us for the annual Tree Lighting Ceremony  
at City Hall at the conclusion of the parade.***

*The parade will start at the  
La Puente Community Center  
heading South on Glendora  
Ave. then East on Main St.  
ending at La Puente City Hall.  
15900 E. Main St.*



***For more information please call the  
La Puente Community Center (626) 855-1560.***