

CRESCENTA VALLEY WATER DISTRICT

**2700 Foothill Boulevard
La Crescenta, California**

**Agenda for the
Regular Meeting of the Board of Directors
of the Crescenta Valley Water District
to be held on Tuesday October 8, 2019 at 7:00 p.m.**

Posted: October 4, 2019 at 3:00 p.m.

Any written materials distributed to the Board in connection with this agenda will be made available at the same time for public inspection at the District office located at the above address.

Call to Order and Determination of Quorum

Pledge of Allegiance

Adoption of Agenda

Public Comments

At this time the public shall have an opportunity to comment on any non-agenda item relevant to the subject matter jurisdiction of the Board. This opportunity is non-transferable, and speakers are limited to one three-minute (3) comment.

Foothill Municipal Water District Report

1. Report on activities at Foothill Municipal Water District.

Consent Calendar

1. Consideration and approval of the Minutes of the Adjourned Regular Meeting on September 24, 2019.

Action Calendar

The public shall have an opportunity to comment on any action item as each item is considered by the Board prior to action being taken. This opportunity is non-transferable, and speakers are limited to one two-minute (2) comment.

1. **Steel Reservoir Rehabilitation at Markridge Reservoir, Project E-1006**
 - a. Consideration and motion to authorize the General Manager to award a contract to the lowest responsible bidder, J. Colon Coatings, Inc. for the rehabilitation of Markridge Reservoir at a cost of \$387,550 including alternative bid items.
 - b. Consideration and motion to authorize the General Manager to enter into an agreement with Harper & Associates Engineers, Inc for Quality Control Inspection Services for the rehabilitation of Markridge Reservoir at a cost not to exceed \$36,020.
2. **TTHM Study and Disinfection Process Upgrades, Project E-995** – Consideration and motion to waive the Bid Procurement and Purchasing Policy per Article 18.01 of CVWD's Rules and Regulations and allow the General Manager to select and negotiate with consultants and contractors for the installation of chloramination systems at Pickens Canyon Reservoir and Well 2 at a cost not to exceed \$225,000.

Information Items

Written Communications to District/Board of Directors

General Manager's Report

Attorney Report

Reports of Committees

- Engineering Committee
- Finance Committee
- Employee Relations Committee
- Policy Committee
- Community Relations/Water Conservation Committee
- Emergency Planning Committee

Director's Oral Reports

Report on issues, meetings, or activities attended by Directors.

Closed Session

Employee Performance Evaluation

- Title: General Manger

Board Members' Request for Future Agenda Items

Adjournment

**CRESCENTA VALLEY WATER DISTRICT
ADJOURNED REGULAR MEETING, BOARD OF DIRECTORS**

September 24, 2019

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District, made at the Regular Meeting on September 10, 2019 an Adjourned Regular Meeting was held on September 24, 2019, at 7:00 p.m. at the District office at 2700 Foothill Blvd., La Crescenta, California, with President James D. Bodnar presiding.

At roll call, the following Directors and staff members were present:

Directors:

**James D. Bodnar
Kerry D. Erickson
Kenneth R. Putnam
Sharon S. Raghavachary
Judy L. Tejeda**

Attorney:

Thomas Bunn

General Manager:

Nem Ochoa

Director of Finance & Administration: James Lee

Director of Engineering:

David S. Gould

Others Present:

**Mark Hass, Information Technology Manager
Christy Scott, Regulatory & Public Affairs Manager
Wendy Holloway, Customer Service Manager
Dennis Maxwell, Director of Operations & Maintenance
Ron Mitchell, Secretary Treasurer
Brook Yared, Senior Engineer
Arturo Montes, Accountant
Frank Colcord, FMWD Director**

PLEDGE OF ALLEGIANCE

President Bodnar opened the meeting by asking Director Tejeda to lead the Directors and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA

It was moved by Director Putnam, seconded by Director Tejeda and carried by a 5-0 vote that the Agenda for the Adjourned Regular Meeting of September 24, 2019 be adopted as presented.

PUBLIC COMMENTS - None

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – Mr. Colcord reported that CVWD's water purchase remains low, with the consumption at 14% of the 2013 Baseline. He also talked about two CIP projects that will take place this year. One is a pipeline inspection at Alta Canyada & Briggs this December, and the other is the restoration of the La Crescenta Reservoir.

CONSENT CALENDAR

It was moved by Director Putnam, seconded by Director Erickson, and carried by a 5-0 vote to approve the Minutes of the Regular Board Meeting held on September 10, 2019, ratify the disbursements for August 2019, and approve the attendance of the 2019 ACWA Fall Conference with Director Putnam and Director Tejeda attending.

Payment of demands against the Crescenta Valley Water District on or before August 31, 2019 the same having been approved by the General Manager, and heretofore paid, be ratified and approved subject to audit, in the aggregate sum of Nine Hundred Forty Two Thousand, Seventy Seven Dollars and Eighty Nine cents (942,077.89), which is composed of the individual items set forth herein.

ACTION CALENDAR

Appeal of a High Water Bill – Mr. Mitchell reported that Rhonda Suhrie is the owner at 2851 Frances Avenue. While reading the meter for the August 31, 2019 billing, staff discovered that she had a high usage for 132,000 gallons. A meter download showed 140 gallons per hour was going through the meter, which stopped when Ms. Suhrie closed the irrigation valve. Ms. Suhrie indicated that she has had more than one plumber out to find the leak, and they were unable to find it. On August 2018, she had a leak, repaired it and received the maximum adjustment of \$300.00. Staff cannot grant any more additional relief, so this is why she is appealing to the Board. In similar situations, the Board has directed staff to recalculate the bill charging only tier 2 rate for all usage over the average consumption for that period. Staff has prepared a re-calculated bill which shows the billing for that period would be \$1,194.57 instead of \$1,504.97, which is a difference of \$310.40.

Following discussion:

It was moved by Director Raghavachary, seconded by Director Erickson and carried by a 5-0 vote to approve a relief in the amount of \$310.40.

Adoption of Salary Scale – Mr. Lee reported that CalPERS notified us earlier this year that the District is out of compliance with reporting the current and past pay scales and that longevity pay be available to all employees without qualifications. Staff has worked with PERS, and the recommended action is to bring back retroactively the salary scales dating back to 2012. It is staff's recommendation that the Board adopt the pay scales retroactively back to 2012, and going forward post the pay scales on the website per CalPERS regulations.

Following discussion:

It was moved by Director Erickson, seconded by Director Putnam and carried by a 5-0 vote to adopt the current pay schedule and past pay schedules retroactively for the last 7 years.

8-inch Water Main Replacement on the 3200 & 3300 Blocks of Brookhill Street – Project E-1002 – Mr. Gould reported that on August 13, 2019, the Board authorized the General Manager to advertise for bids for this project. A mandatory pre-bid meeting was held on September 4, 2019, and it was attended by ten (10) contractors. On September 18, 2019, the District opened and read the bid proposals. After staff reviewed the bids, they determined that J. DeSigio Construction was the lowest responsible bidder. The low bid came in at \$372,645, which is 33% less than the engineer's estimate at \$560,000. A pre-

construction meeting will be set as soon as the contract is awarded. This project is exempt from California Environmental Quality Act (CEQA) Guidelines pursuant to Section 15301 of the CEQA Guidelines.

Following discussion:

It was moved by Director Tejeda, seconded by Director Raghavachary and carried by a 5-0 vote to authorize the General Manager to award a contract to the lowest responsible bidder, J. De Sigio Construction, Inc. for the construction of 1,500 lineal feet of pipeline replacement on the 3200 & 3300 Blocks of Brookhill St. at a cost of \$372,645 and establish a contingency amount of \$37,265 (10% of contract) to cover the cost of unforeseen or additional work.

Discussion Regarding the District's Public Outreach Programs – At the request of Director Raghavachary, Ms. Scott discussed the District's community outreach program, including community events and the District's new Facebook page. It is staff's recommendation that the District continue to participate in community events at no cost to the community or organization sponsoring the event. The discussion yielded direction for staff, including: invite board members to volunteer for various events; include the Sherriff's Station as a venue (in addition to the Glenwood Plant) for National Night Out; and potentially conducting a board workshop to produce a more detailed public outreach programs plan.

INFORMATION ITEMS – ACWA Committee Consideration form request by Director Tejeda. Director Raghavachary expressed a potential interest as well.

WRITTEN COMMUNICATIONS TO DISTRICT – Letter from Marilyn Tyler regarding Outreach – CVWD Credibility. Proposition 218; Water and Sewer Cost of Service Study; rate increases. Mr. Tom Bunn, Legal Counsel presented a written response to Ms. Tyler's letter, which was also discussed with the Board.

REPORTS OF PERSONNEL

GENERAL MANAGER – Mr. Ochoa reported that Ron Mitchell will retire as of September 27, 2019. He has been a valuable employee and has worked for 26 years. He has been a mentor to many and has served many functions including Board Secretary, handling accounting and finance, and customer service. The District will be having a retirement luncheon on Friday, and the Board is invited to attend. Mr. Ochoa also updated the Board on the pipelines that are in the ground. He said that in the next 15 years there will be a spike of pipelines that will need to be replaced. We will need to talk about how to fund this in the years to come, and staff will be working on a plan to bring back to the Board in the next couple of months.

Mr. Gould gave an update on the pipeline replacement on Pennsylvania. We have replaced 450 ft of pipe, and the contractors have run into a couple of problems, where they ran into an abandoned 15' culvert and had to cut part of it out to run the pipeline. We should be done with the project in the next two weeks.

Mr. Ochoa expressed his appreciation to staff and crews for the work they have done on the Pennsylvania pipeline, making sure there is access to walk by and for traffic to drive by.

ATTORNEY – Mr. Bunn reported on a Proposition 218 case with Western Municipal Water District. The court has upheld the tiered rate structure for the first time at the trial court level. This will most likely be appealed.

REPORTS OF COMMITTEES

Engineering Committee – Director Erickson reported that the Committee had not met; however a meeting will be scheduled as needed.

Finance Committee – Director Putnam reported that the Committee had not met; however, a meeting will be scheduled as needed.

Employee Relations Committee – Director Bodnar reported that the Committee met on September 20, 2019 at 9:00 a.m. and discussed Management Terms and Conditions, General Manager Goals and Evaluations, and the status of personnel issues.

Policy Committee – Director Raghavachary reported that the Committee had not met; however, a meeting will be scheduled as needed.

Community Relations/Water Conservation Committee – Director Tejeda reported that the Committee had not met; however, a meeting will be scheduled as needed.

Emergency Planning Committee – Director Tejeda reported that the Committee had not met; however, a meeting will be scheduled as needed.

Executive Committee – Director Bodnar reported that the Committee had not met; however, a meeting will be scheduled as needed.

DIRECTORS ORAL REPORTS

Director Bodnar reported he attended on September 21, 2019 the 135th Anniversary for Crescenta Valley. He emphasized the importance of the Water District, and if we were not here we would not have a community, and it would be difficult to live in this area.

Director Raghavachary thanked Dennis Maxwell and his crew who replaced her meter and the lateral to her property. The meter is now flush with the street.

Director Tejeda reported that she attended the ACWA Regional 8 meeting at Brookside Park last Friday. Las Virgenes gave a presentation on the Woolsey fire and how they dealt with the crisis.

Director Putnam – No Report

Director Erickson reported that he attended the 135th Anniversary of Crescenta Valley over at St. Lutheran Church and saw Director Bodnar there with his family. He talked about the fires that were in Altadena and Sunland, and that we need to be aware of the fire danger.

CLOSED SESSION – No reportable items.

ADJOURNMENT

There being no other business to come before the Board, at 10:15 p.m. it was moved by Director Bodnar, seconded by Director Erickson and carried by a 3-0 vote that the meeting be adjourned in recognition of Ron Mitchell with his 26 years of service with Crescenta Valley Water District to October 8, 2019, at 7:00 p.m.

APPROVED

James D. Bodnar
President

James Lee
Director of Finance & Administration

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 1

October 8, 2019

To: Honorable President and Members of the Board of Directors

From: David S. Gould, P.E. – District Engineer

Subject: Award of Contract - Steel Reservoir Rehabilitation - Markridge Reservoir, Project E-1006

ACTION ITEM:

Steel Reservoir Rehabilitation at Markridge Reservoir, Project E-1006

- a) Consideration and motion to authorize the General Manager to award a contract to the lowest responsible bidder, J. Colon Coatings, Inc. for the rehabilitation of Markridge Reservoir at a cost of \$387,550 including alternative bid items.
- b) Consideration and motion to authorize the General Manager to enter into an agreement with Harper & Associates Engineers, Inc for Quality Control Inspection Services for the rehabilitation of Markridge Reservoir a cost not-to-exceed \$36,020.

BACKGROUND:

Crescenta Valley Water District (CVWD) owns a 0.5 MG steel tank at its Markridge Reservoir site located at 3150 Markridge Ave that was built in 1951. In 1996, an assessment was performed by Harper & Associates Engineering, Inc. (Harper) of the District's 17 reservoirs and it was determined that the Markridge Reservoir needed to be re-coated to extend the life of the steel tanks. The re-coating of the reservoir also included seismic structural upgrades and was completed in 2001.

- In 2004, Markridge was inspected, it was discovered that there was advanced corrosion on the interior surface between the water line and the top of the roof.
- In 2006, CVWD hired a contractor to re-coat the interior surface and add new exterior vents.
- In 2008, Markridge was inspected. There was minor corrosion occurring and a high level of chlorine vapor.
- In 2009, Malcom Pirine performed an investigation into the cause of the advanced corrosion at Markridge and they concluded it was the exposure to the chlorine vapor.
- In 2015, Markridge was inspected and the report stated that the underside of the roof and structural elements are in poor condition. It was recommended to sand blast, remove the coating and corrosion, re-coat the interior roof and shell and replace any structural members damaged by the corrosion should be replaced. Staff placed Markridge Reservoir on the reservoir rehabilitation list as part of the annual CIP program.
- In early 2019, Harper inspected Markridge again and observed a large accumulation of sediment and corroded steel material on the bottom, as well as structural tie-rods that had fallen from the roof. Harper also indicated that the condition of the roof, rafters and structural members above the water surface for both reservoirs had deteriorated to a worse condition than seen in 2015.

DISCUSSION:

Bid Proposal:

On August 23, 2019, the Board authorized the General Manager to advertise for bids for the subject project. A mandatory pre-bid meeting was held on September 18, 2019, which was attended by four (4) contractors. CVWD specifications indicate that only contractors who attend this meeting are allowed to bid on the project.

On September 25, 2019, at 2:00 PM, the District opened and read the following bid proposals for this project:

	<u>Bidder</u>	<u>Total Bid Amount</u>
Low	J. Colon Coatings, Inc.	\$387,550
2	Advanced Industrial Services, Inc	\$409,150
3	Spiess Construction Co. Inc.	\$416,325

J. Colon Coatings, Inc. (J. Colon) was the apparent low bidder at a cost of \$387,550, which included alternative bids items as shown in the attached bid summary. The bid was 11% or \$38,450 higher than the engineers cost estimate of \$349,100.

J. Colon has worked on numerous steel reservoir re-coating projects throughout Southern California with such agencies as Valley Center Municipal Water District, Desert Water Agency, Rowland Water District, and Lake Arrowhead Community Water District over the last five (5) years. Staff contacted their references and general consensus was that Colon is capable of performing the work, the majority of the projects were within the project schedule and change orders were minimal. In addition, J. Colon worked for CVWD on the re-coating of the steel forebay at the Mills Plant in 2003.

Quality Control Inspection Services:

Staff requested a proposal from Harper & Associates Engineers, Inc (Harper) to provide quality control inspection services for the structural modifications, removal and re-coating of the interior and exterior surfaces and the new cathodic protection system from Harper for \$36,020. CVWD's inspector will provide day to day construction administration for the project.

RECOMMENDATION:

Staff's recommendation is to award the contract for the subject project to the lowest responsible bidder, J. Colon Coatings, Inc for the Steel Reservoir Rehabilitation at Markridge Reservoir at a cost of \$387,550. Staff has been recommending in previous construction projects to include a 10% contingency for unforeseen or extra work. The bid proposal for this project included alternative bid items for work items that typically are extra work during a rehabilitation of a steel tank. Staff has included the alternative bid items in the overall cost in lieu of the 10% contingency.

Staff also recommends awarding a contract to Harper for specialty quality control inspection for installation of the structural upgrades, re-coating process for the interior of the reservoir and installation of the cathodic protection system.

Christina Olmedo will be the project manager and Cory Whitman will be the daily construction administration. It is anticipated that construction will start in late November 2019 that should take about four (4) months and should be completed by the end of February 2020. In addition, staff will have a community meeting with the local residents before the beginning of construction.

ENVIRONMENTAL REVIEW:

This project is exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the CEQA Guidelines. This exemption covers the repair of existing facilities involving negligible or no expansion of existing use.

FUNDING AVAILABILITY:

There are sufficient funds available in the following account for the project:

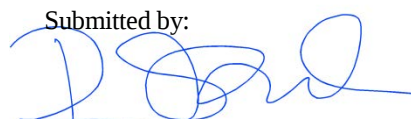
Account Description	Amount
FY 19/20 Water CIP– Water Storage	\$435,000
Construction Cost includes contingency cost for Alternative Bid Item	(\$387,550)
Specialty Quality Control Inspection Services	(\$36,020)
CVWD Construction Administration costs	(\$8,500)
Total Cost Estimate	(\$432,070)
Amount Remaining in Water CIP – Water Storage	\$2,930

Prepared by:



Christina Olmedo
Assistant Engineer

Submitted by:



David S. Gould, P.E.
District Engineer

Attachments:

1. Bid Summary

CRESCENTA VALLEY WATER DISTRICT

Page 1 of 3
CVWD's Office

Title: Markridge Steel Reservoir Rehabilitation, Project E-1006
 E-Job No: E-1006
 Engineer's Estimate: \$368,000
 Project Manager: Christina Olmedo

BID LOCATION: _____
 TIME: 2:00 PM
 DATE: 9/25/2019
 BY: CO CHECKED: DSG

ITEM	Markridge- DESCRIPTION	QUANTITY		Engineers Estimate		J. Colon Coatings, Inc.		Advanced Industrial Services		Spiess Construction Co., Inc.	
				UNIT	AMOUNT	UNIT	AMOUNT	UNIT	AMOUNT	UNIT	AMOUNT
1	Interior Coating: Furnish all labor, materials, and equipment to prepare surfaces and coat interior with 100% solids epoxy coatings, in accordance with the specifications.	1	LS	\$128,000.00	\$128,000.00	\$163,000.00	\$163,000.00	\$191,000.00	\$191,000.00	\$199,990.00	\$199,990.00
2	Disinfection: Furnish all labor, materials, and equipment to prepare surfaces and disinfect interior.	1	LS	\$2,500.00	\$2,500.00	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00	\$2,300.00	\$2,300.00
3	Exterior Painting: Furnish all labor, materials, and equipment to prepare designated exterior surfaces and paint designated exterior surfaces with and epoxy/urethane paint system, in accordance with the specifications.	1	LS	\$28,000.00	\$28,000.00	\$12,500.00	\$12,500.00	\$36,900.00	\$36,900.00	\$17,050.00	\$17,050.00
4	Interior Caulking: Furnish all labor, materials, and equipment to caulk all designated voids on the interior surfaces in accordance with the specifications.	1	LS	\$3,000.00	\$3,000.00	\$4,500.00	\$4,500.00	\$3,500.00	\$3,500.00	\$2,550.00	\$2,550.00
5	Guardrailing: Remove and dispose of designated guardrailing and fabricate and install guardrailing, in accordance with the plans. <u>Guardrailing: Remove and dispose of designated guardrailing and fabricate and install guardrailing, in accordance</u>	1	LS	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	\$2,400.00	\$2,400.00	\$5,650.00	\$5,650.00
6	Center and Auxiliary Vent Screen: Furnish all labor, materials and equipment to remove the existing center vent and install a new aluminum screen, in accordance with the specifications.	1	LS	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,400.00	\$2,400.00	\$2,750.00	\$2,750.00
7	Vent Fans: Furnish all labor, materials, and equipment to furnish and install vent fans, solar panels, conduit, junction box, and wiring and modify the existing vents, in accordance with the plans.	1	LS	\$15,600.00	\$15,600.00	\$17,900.00	\$17,900.00	\$6,200.00	\$6,200.00	\$12,200.00	\$12,200.00
8	Lateral Braces: Furnish all labor, materials and equipment to remove the existing tie-rods and lateral braces and furnish and install new lateral braces, in accordance with the plans and specifications.	1	LS	\$10,500.00	\$10,500.00	\$9,700.00	\$9,700.00	\$16,900.00	\$16,900.00	\$14,800.00	\$14,800.00
9	Interior Saf-T-Climb: Remove and dispose of existing Saf-T-Climb. Furnish and install a galvanized Saf-T-Climb fall prevention device on the interior ladder including dismount section, harness and locking sleeve.	1	LS	\$3,500.00	\$3,500.00	\$9,000.00	\$9,000.00	\$5,800.0	\$5,800.00	\$5,050.00	\$5,050.00
10	Fall Restraint System: Furnish all labor, materials, and equipment to furnish and install fall restraint stainless steel cables, attachments, and necessary mounting hardware on the roof in accordance with the plans.	1	LS	\$3,500.00	\$3,500.00	\$5,000.00	\$5,000.00	\$2,400.00	\$2,400.00	\$3,250.00	\$3,250.00
11	Stairway: Remove the existing exterior ladder and cage and furnish and install a new spiral stairway at location noted on the plans.	1	LS	\$50,000.00	\$50,000.00	\$43,500.00	\$43,500.00	\$49,000.00	\$49,000.00	\$40,500.00	\$40,500.00
12	Liquid Level Indicator: Remove the existing liquid level indicator gauge board. Furnish and install new liquid level indicator half travel gauge board.	1	LS	\$2,500.00	\$2,500.00	\$6,000.00	\$6,000.00	\$3,500.00	\$3,500.00	\$5,500.00	\$5,500.00

ITEM	Markridge- DESCRIPTION	QUANTITY		Engineers Estimate		J. Colon Coatings, Inc.		Advanced Industrial Services		Spiess Construction Co., Inc.	
				UNIT	AMOUNT	UNIT	AMOUNT	UNIT	AMOUNT	UNIT	AMOUNT
13	Grade Band: Remove and dispose of the dirt and vegetation within the steel grade band a minimum of 6" below the bottom plate extension and place new clean gravel up to the bottom plate extension.	1	LS	\$3,000.00	\$3,000.00	\$7,500.00	\$7,500.00	\$4,200.00	\$4,200.00	\$12,100.00	\$12,100.00
14	Cathodic Protection: Furnish all labor, materials, and equipment to remove and dispose of the existing system and furnish and install a galvanic cathodic protection system in accordance with the specs.	1	LS	\$10,000.00	\$10,000.00	\$9,500.00	\$9,500.00	\$17,000.00	\$17,000.00	\$11,050.00	\$11,050.00
Markridge Reservoir - Total - Bid Items 1 - 14					\$267,100.00		\$298,600.00		\$344,700.00		\$334,740.00
Alternaive Bid Items				Engineers Estimate		J. Colon Coatings, Inc.		Advanced Industrial Services		Spiess Construction Co., Inc.	
15	Dehumidification: Furnish all labor, materials and equipment to use dehumidification system for interior work, including curing of coatings, in accordance with the specifications.	7	wks	\$2,500.00	\$17,500.00	\$1,800.00	\$12,600.00	\$1,000.00	\$7,000.00	\$2,800.00	\$19,600.00
16	Pit/Perforation Treatment: Furnish all labor, material and equipment to fill pits or weld plates over pitted or corroded areas, as determined necessary by the Engineer.	16	hrs	\$350.00	\$5,600.00	\$500.00	\$8,000.00	\$300.00	\$4,800.00	\$280.00	\$4,480.00
17	Grinding: Furnish all labor, materials and equipment to grind smooth sharp edges of the rafter and girder flanges, as determined necessary by the engineer.	16	hrs	\$300.00	\$4,800.00	\$250.00	\$4,000.00	\$250.00	\$4,000.00	\$280.00	\$4,480.00
18	Inspection Spot Blasting: Furnish all labor, materials and equipment to abrasively blast clean severely corroded surfaces, as determined necessary by the Engineer.	8	hrs	\$450.00	\$3,600.00	\$750.00	\$6,000.00	\$1,000.00	\$8,000.00	\$462.50	\$3,700.00
19	Rafter Replacement: Furnish all labor, materials and equipment to remove the existing rafters and furnish and install new rafters in like kind, as determined necessary by the Engineer.	15	EA	\$2,100.00	\$31,500.00	\$1,450.00	\$21,750.00	\$1,250.00	\$18,750.00	\$1,700.00	\$25,500.00
20	Nuts and Bolts: Furnish all labor, materials, and equipment to replace existing nuts and bolts at the structural connections, as determined necessary by the Engineer. Each is based on a set of two bolts per connection.	15	EA	\$300.00	\$4,500.00	\$166.66	\$2,500	\$80.00	\$1,200.00	\$215.00	\$3,225.00
21	Auxiliary Vent: Furnish all labor, materials, and equipment to remove existing auxiliary vent and furnish and install new vent, in accordance with the plans and as determined necessary by the Engineer.	1	LS	\$4,500.00	\$4,500.00	\$5,800.00	\$5,800.00	\$4,200.00	\$4,200.00	\$3,600.00	\$3,600.00
22	Overflow: Furnish all labor, materials, and equipment to replace existing nuts and bolts at the structural connections, as determined necessary by the Engineer. Each is based on a set of two bolts per connection.	1	LS	\$10,000.00	\$10,000.00	\$28,300.00	\$28,300.00	\$16,500.00	\$16,500.00	\$17,000.00	\$17,000.00
Total - Alternative Bid Items 15- 22					\$82,000.00		\$88,949.9		\$64,450.00		\$81,585.00
Total - Bid Items 1 - 22				EE	\$349,100	LOW	\$387,550	2ND	\$409,150	3RD	\$416,325

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2

October 8, 2019

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – District Engineer
Subject: TTHM Mitigation and Disinfection Process Upgrades, Project E-995

ACTION ITEM:

TTHM Mitigation and Disinfection Process Upgrades, Project E-995 - Consideration and motion to waive the Bid Procurement and Purchasing Policy per Article 18.01 of CVWD's Rules and Regulations and allow the General Manager to select and negotiate with consultants and contractors for the installation of chloramination systems at Pickens Canyon Reservoir and Well 2 at a cost not to exceed \$225,000.

BACKGROUND:

The District uses chlorine as a disinfectant to treat drinking water. Chlorine can create disinfection by-products during treatment, also known as Total Trihalomethanes or TTHMs as chlorine reacts with naturally occurring organic matter in imported water. CVWD's imported water supplied by FMWD/MWD is from either the Colorado River (CRW) or the State Water Project (SWP). Typically, CVWD's water supply blend is 60% groundwater and 40% imported water. Since August 2018, the system operators have made operational changings such as reducing the amount of water storage, the length of time that water is stored and adjusting chlorine residual levels, which has resulted in significant reduction in the TTHM levels over the last year.

DISCUSSION:

Operational Changes:

Staff is watching the TTHM levels in September as water demands did increase for the month. As shown on the attached charts, TTHM levels went up and down based on operations and water demand.

Conversion to Chloramines:

Staff and its consultants have been working on a new design for adding ammonia stations at Well 2 and Pickens Canyon Reservoir. Also, staff has been working on a design to replace the calcium hypochlorite (tablets) station at Pickens Tunnel with a new sodium hypochlorite station.

This part of the project includes the following:

- o 30% design plans from Carollo at Pickens Canyon Reservoir & Well 2.
- o Construction of a new sodium hypochlorite and ammonia station with upgrading piping, new chemical building with concrete pad, electrical equipment and SCADA equipment at Pickens Canyon Reservoir
- o New ammonia station with electrical equipment and SCADA equipment upgrades at Well 2.
- o SCADA programming and integration for Pickens Canyon Reservoir and Well 2.
- o Coordination with DDW for approval of amended permit.

Updated Project Costs:

Staff also updated the cost estimate to complete this work and determined as shown from the table below that the estimated cost is \$225,000 for the additional work, which is based on quotes from vendors, preliminary discussions with contractors and prior costs from the project.

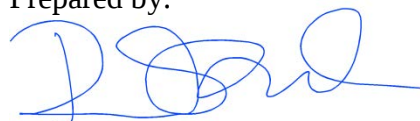
FUNDING AVAILABILITY:

Account Description	Amount - 9/10/19	Amount - 10/8/19	Difference
Transfer from MTBE Reserve Fund (9/25/18)	\$410,000	\$410,000	\$0
Transfer from MTBE Reserve Fund - (11/20/18)	\$500,000	\$500,000	\$0
Transfer from MTBE Reserve Fund - (5/28/19)	\$90,000	\$90,000	\$0
FY 19/20 - Additional Funding (Estimate)	\$0	\$225,000	\$0
Total Estimated Cost for Project	\$1,000,000	\$1,225,000	\$0
Consultants - Planning, Design & Construction Admin			
WQTS - Planning & Design	\$144,240	\$144,240	\$0
Hazen & Sawyer - Water Quality	\$11,971	\$11,971	\$0
John Robinson Consulting - Project Management	\$45,225	\$45,225	\$0
<i>Grace Environmental Services (3 months part-time service) (Estimate)</i>	\$0	\$0	\$0
Apex Manufacturing Solution - SCADA programing and integration	\$54,165	\$54,165	\$0
Apex Manufacturing Solution - SCADA programing and integration for Pickens (Estimate)	\$0	\$25,000	\$25,000
Apex Manufacturing Solution - SCADA programing and integration for Well 2 (Estimate)	\$0	\$15,000	\$15,000
New Chlorine Analyzers - 6 locations - Hazen and Sawyer - Design	\$44,505	\$44,505	\$0
Public Notification - CV Strategies	\$4,935	\$4,935	\$0
WQ Sampling - 9/1/18 to 6/30/19 (FY 18/19)	\$55,125	\$55,125	\$0
WQ Sampling - 7/1/19 to 9/1/19 (FY 19/20)	\$8,370	\$8,370	\$0
<i>WQ Sampling - 9/1/19 to 12/31/19 (Estimate)</i>	<i>\$37,000</i>	<i>\$37,000</i>	<i>\$0</i>
Subtotal	\$405,536	\$445,536	\$40,000
Construction			
Ammonia Injection Skids (2)	\$41,166	\$41,166	\$0
SCADA - Equipment (RTU's, Communication, cabinets, etc..)	\$14,642	\$14,642	\$0
Concrete Pad & Grading at Mills	\$7,011	\$7,011	\$0
Ammonia Inject Vault at Glenwood	\$74,588	\$74,588	\$0
Ammonia Tank at Mills	\$6,922	\$6,922	\$0
Static Mixer & Ammonia Injection System	\$11,236	\$11,236	\$0
Conduits/Wiring/Electrical Materials	\$11,542	\$11,542	\$0
Upgrade Chlorine Analyzers (Mills & Glenwood)	\$18,647	\$18,647	\$0
Safety - Eye Wash, Containment, etc.. (materials only)	\$10,230	\$10,230	\$0
On-site Welding	\$4,249	\$4,249	\$0
Misc	\$75	\$75	\$0
Pickens Canyon Reservoir - Ammonia/Chlorine System Equipment & Installation (Estimate)	\$0	\$58,000	\$58,000
Pickens Canyon Reservoir - Concrete Pad/Grading (Estimate)	\$0	\$17,500	\$17,500
Pickens Canyon Reservoir - Piping Materials & Installation (Estimate)	\$0	\$35,000	\$35,000
Pickens Canyon Reservoir - SCADA Equipment (Estimate)	\$0	\$7,500	\$7,500
Well 2 - Ammonia System Equipment & Installation (Estimate)	\$0	\$30,000	\$30,000
Well 2 - Ammonia System SCADA Equipment (Estimate)	\$0	\$7,500	\$7,500
Subtotal	\$200,307	\$355,807	\$155,500
Operations & Maintenance			
Upgrade Chlorine Analyzers - 4 locations Equipment (Hach)	\$27,555	\$27,555	\$0
Upgrade Chlorine Analyzers - 7 locations Equipment (ProMinent)	\$36,372	\$36,372	\$0
New Chlorine Analyzers - 6 locations - APEX SCADA Programing	\$36,405	\$36,405	\$0
New Chlorine Analyzers - 6 locations - SCADA Equipment	\$70,681	\$70,681	\$0
New Chlorine Analyzers - 6 locations - Equipment (Hach)	\$63,792	\$63,792	\$0
Dead-ends Water Main Flushing - Valvetek	\$154,624	\$154,624	\$0
Misc	\$1,078	\$1,078	\$0
Subtotal	\$390,508	\$390,508	\$0
Total Cost	\$996,351	\$1,191,851	\$195,500
Amount Remaining	\$3,649	\$33,149	

RECOMMENDATION:

It is staff's recommendation to authorize the General Manager to select and negotiate with consultants and contractors for the installation of chloramination systems at Pickens Canyon Reservoir & Well 2 for a not-to-exceed cost of \$225,000.

Prepared by:



David S. Gould, P.E.
Director of Engineering

Submitted by:



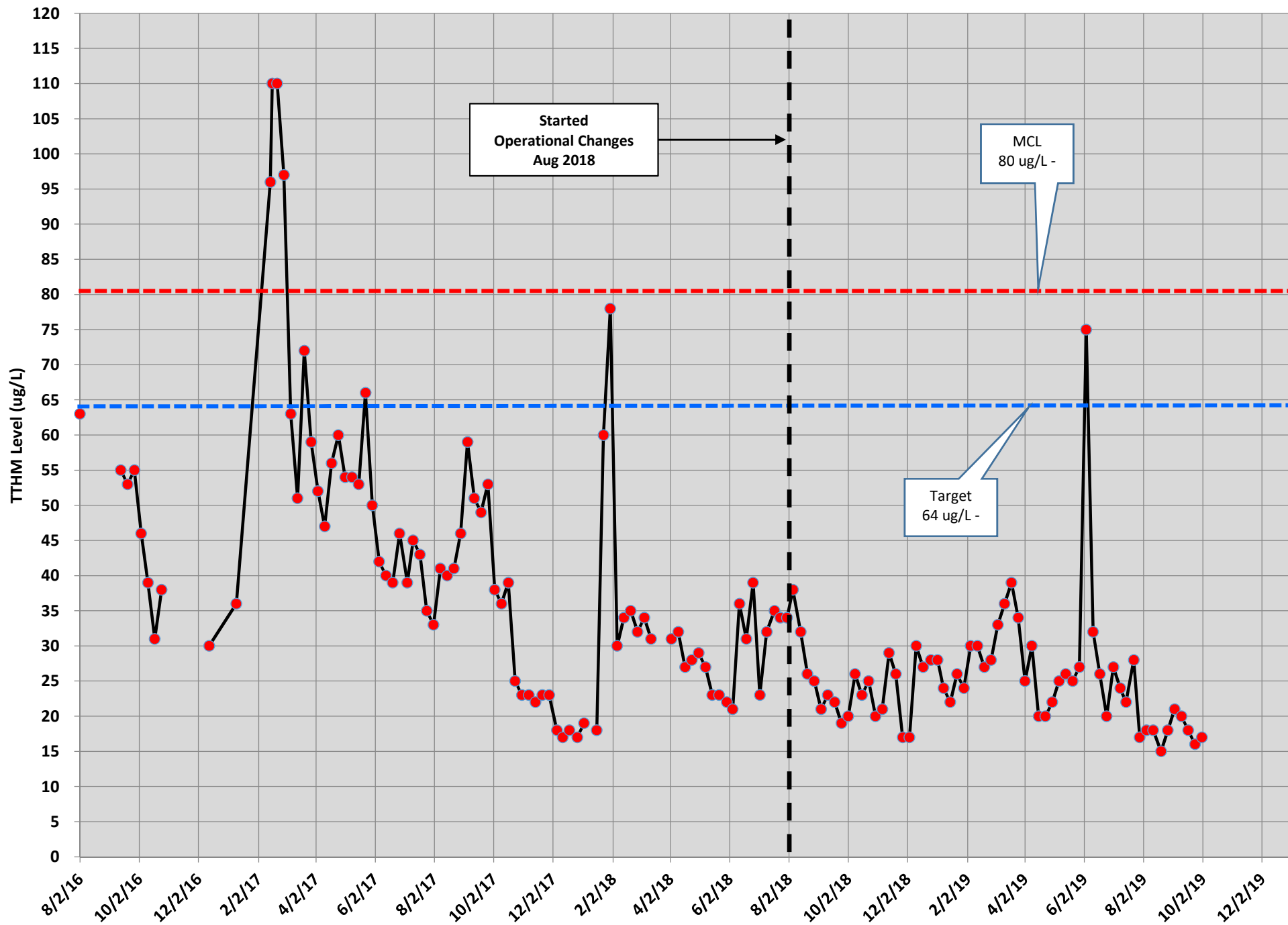
Nem Ochoa
General Manager

Attachments:

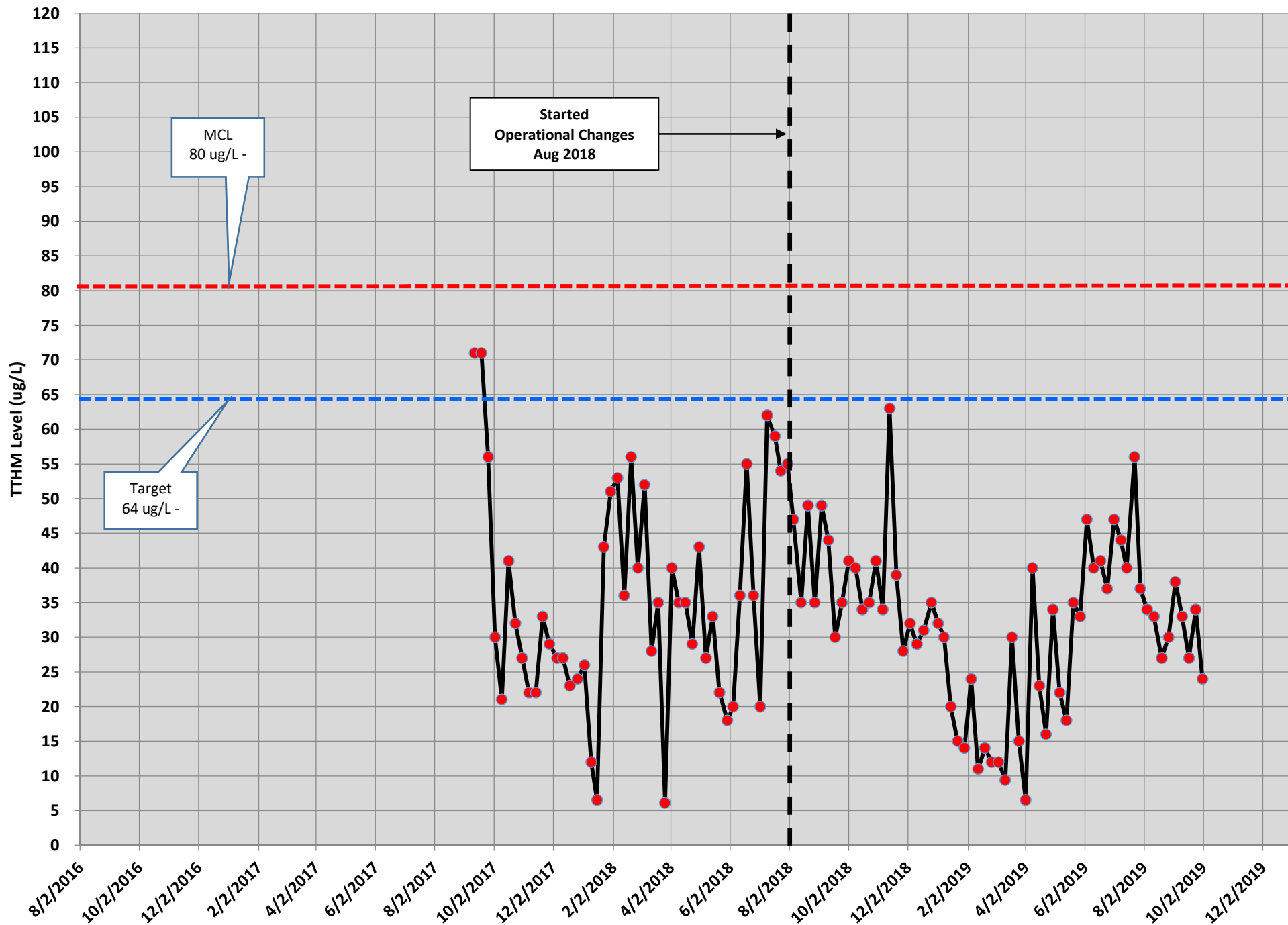
1. TTHM Charts dated 09-03-19

g:\management\board meeting staff reports\2019\10-08-19 board memo - e-995 disinfection process upgrades - request for funds.docx

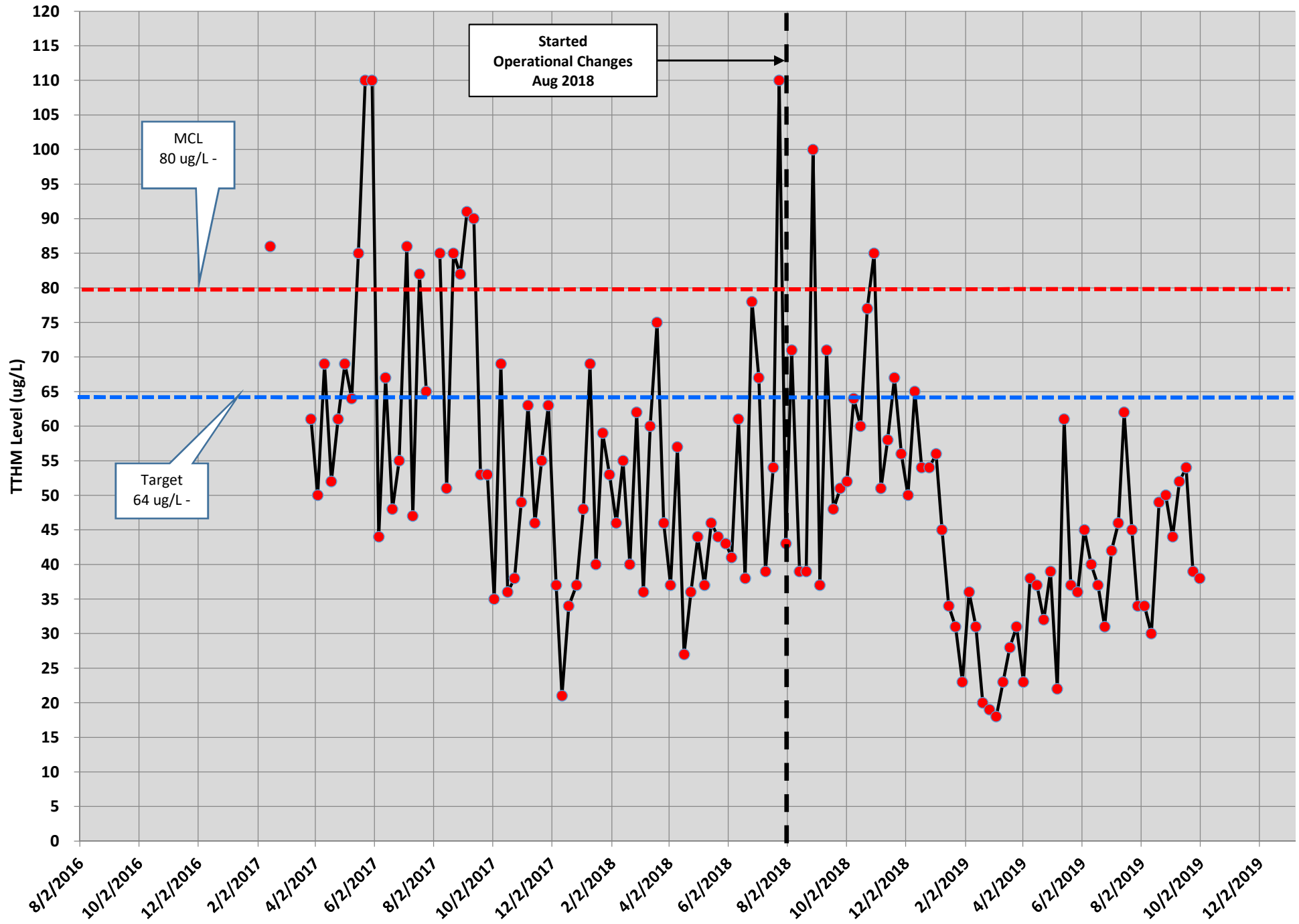
FMWD at Paschall Booster - TTHM's Levels



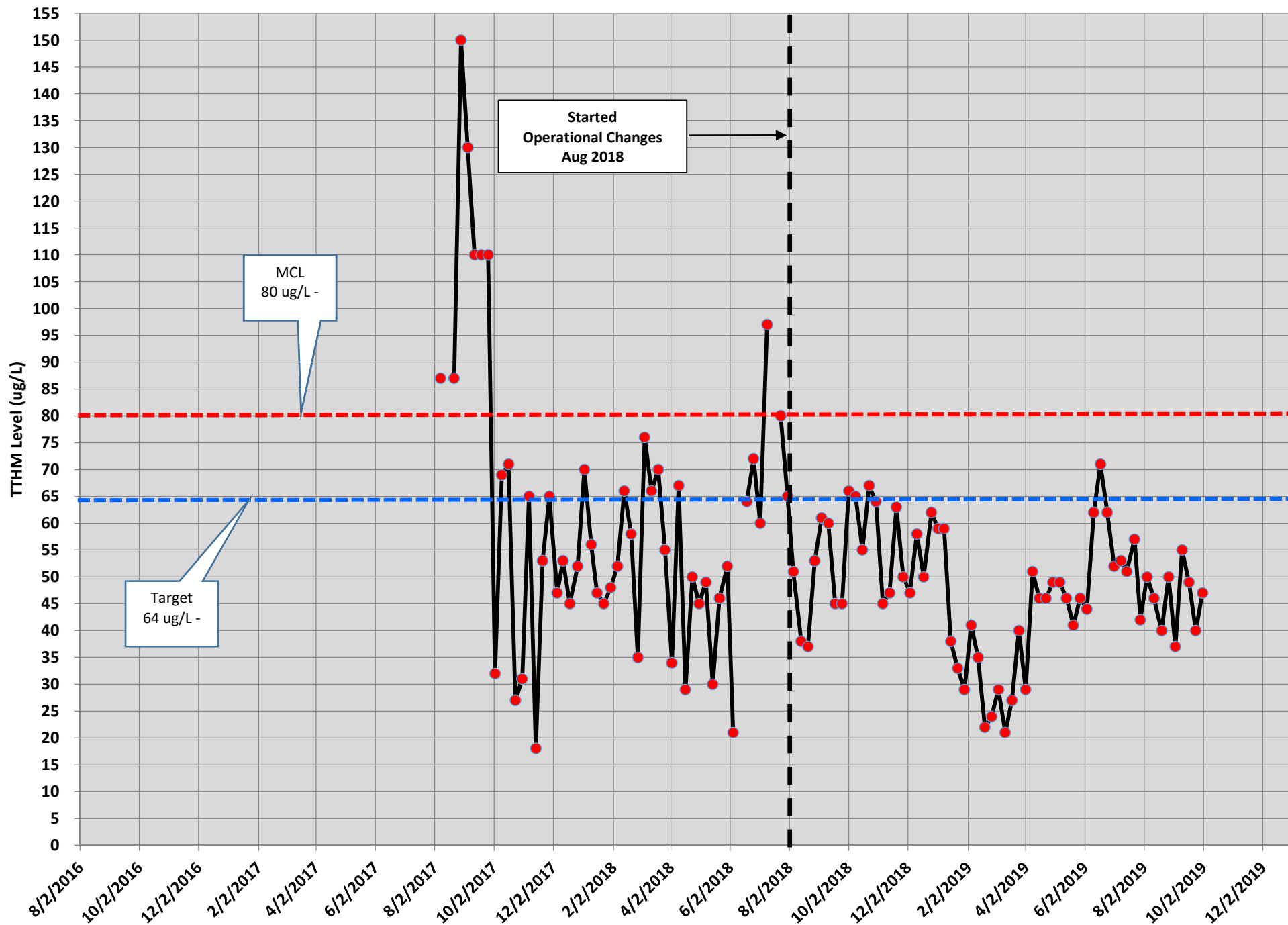
Encinal Reservoir (Zone 1) - TTHMs Levels



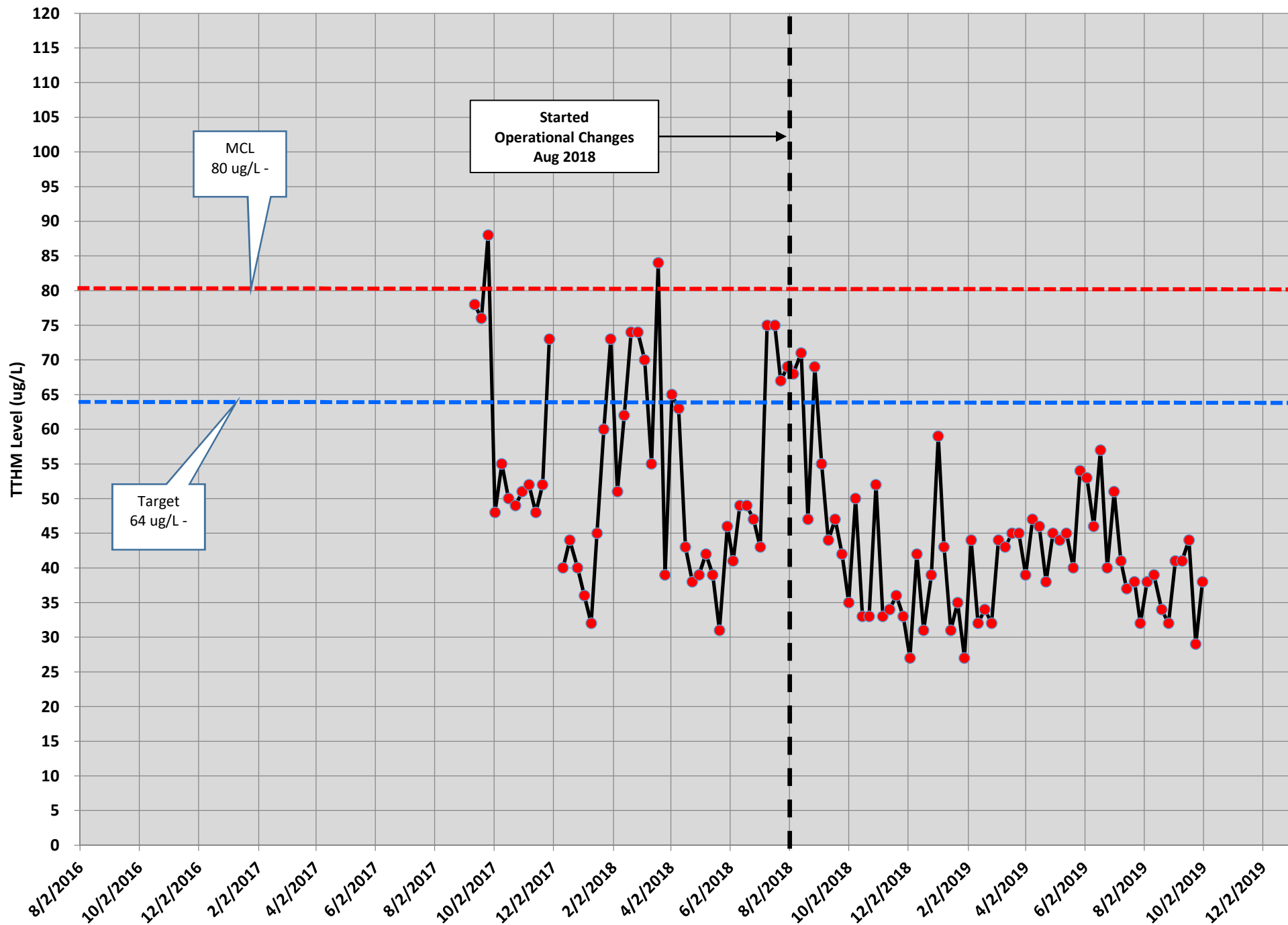
Williams Reservoir (Zone 2) - TTHMs Levels



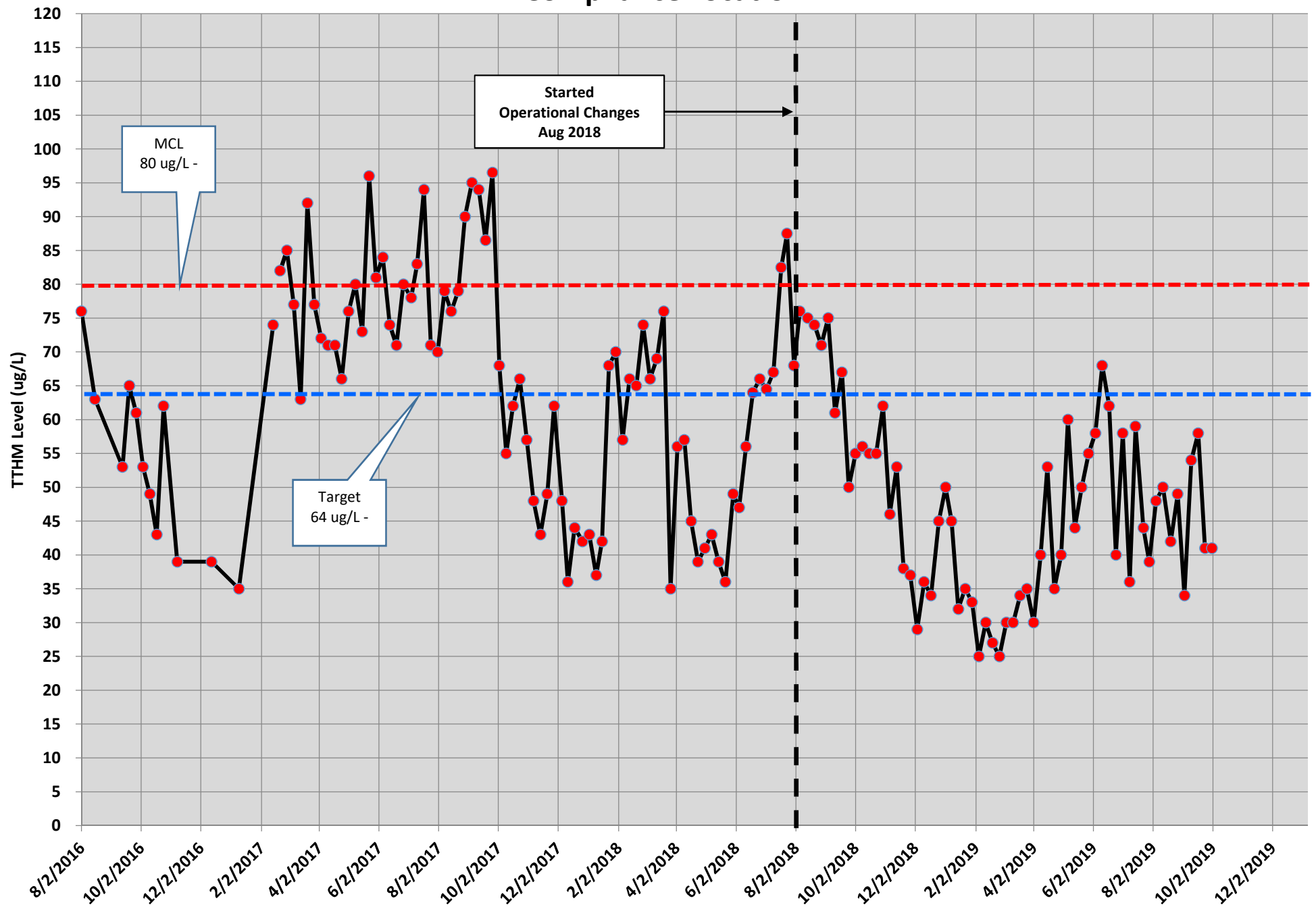
Ordunio Reservoir (Zone 2) - TTHMs Levels



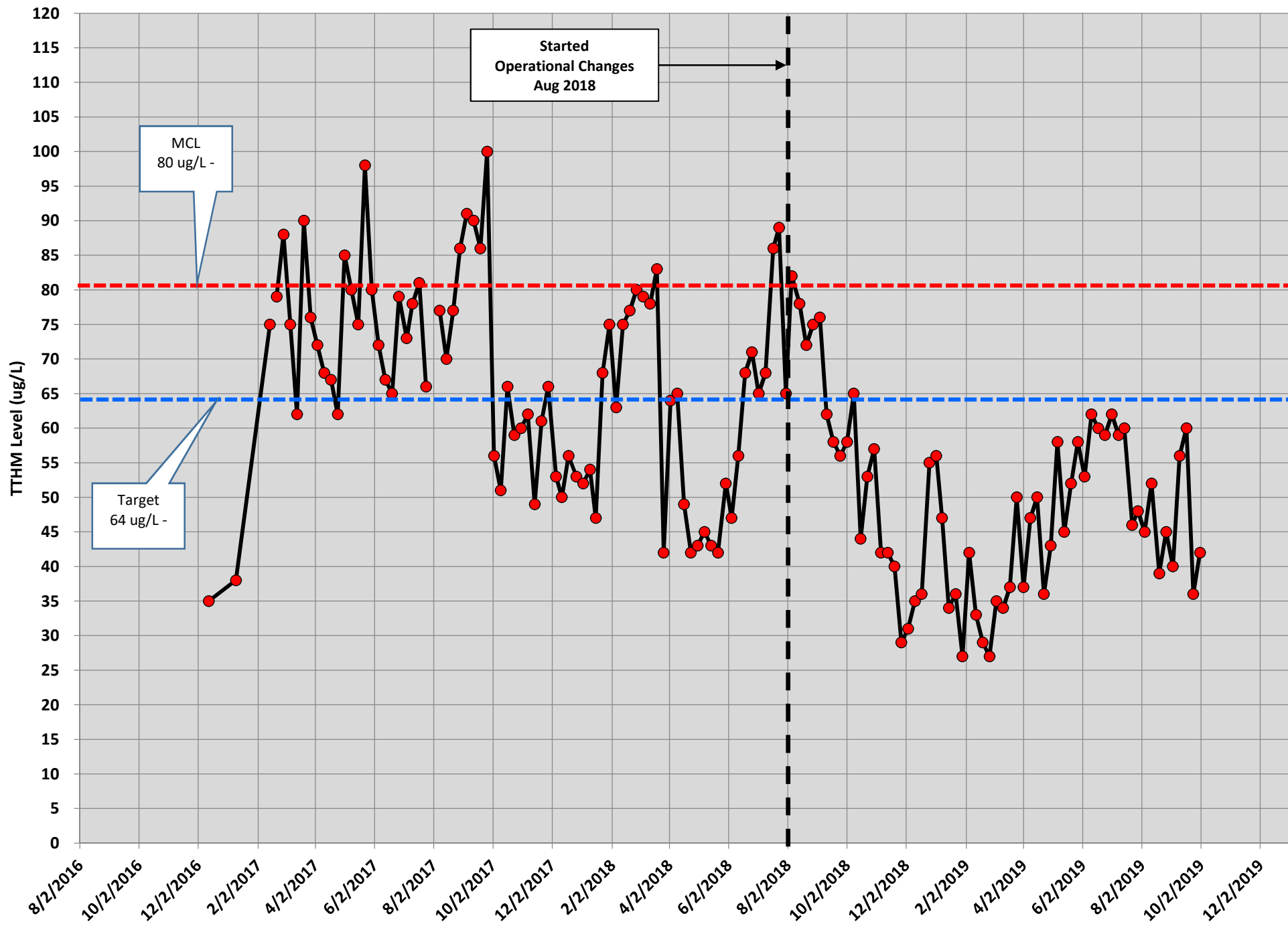
Rosemont Reservoir (Zone 3) - TTHMs Levels



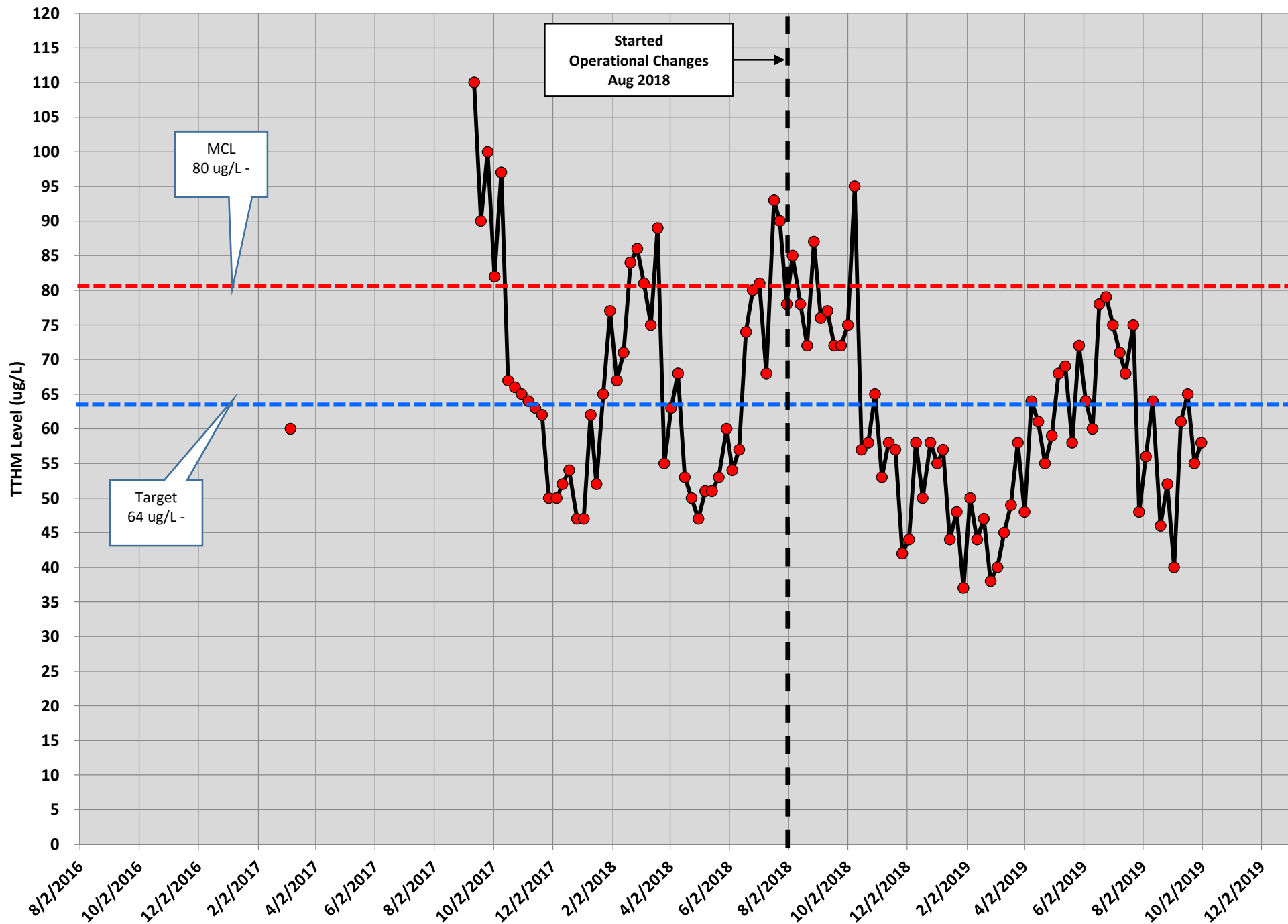
Oak Creek Reservoir (Zone 4) - TTHMs Levels Compliance Location



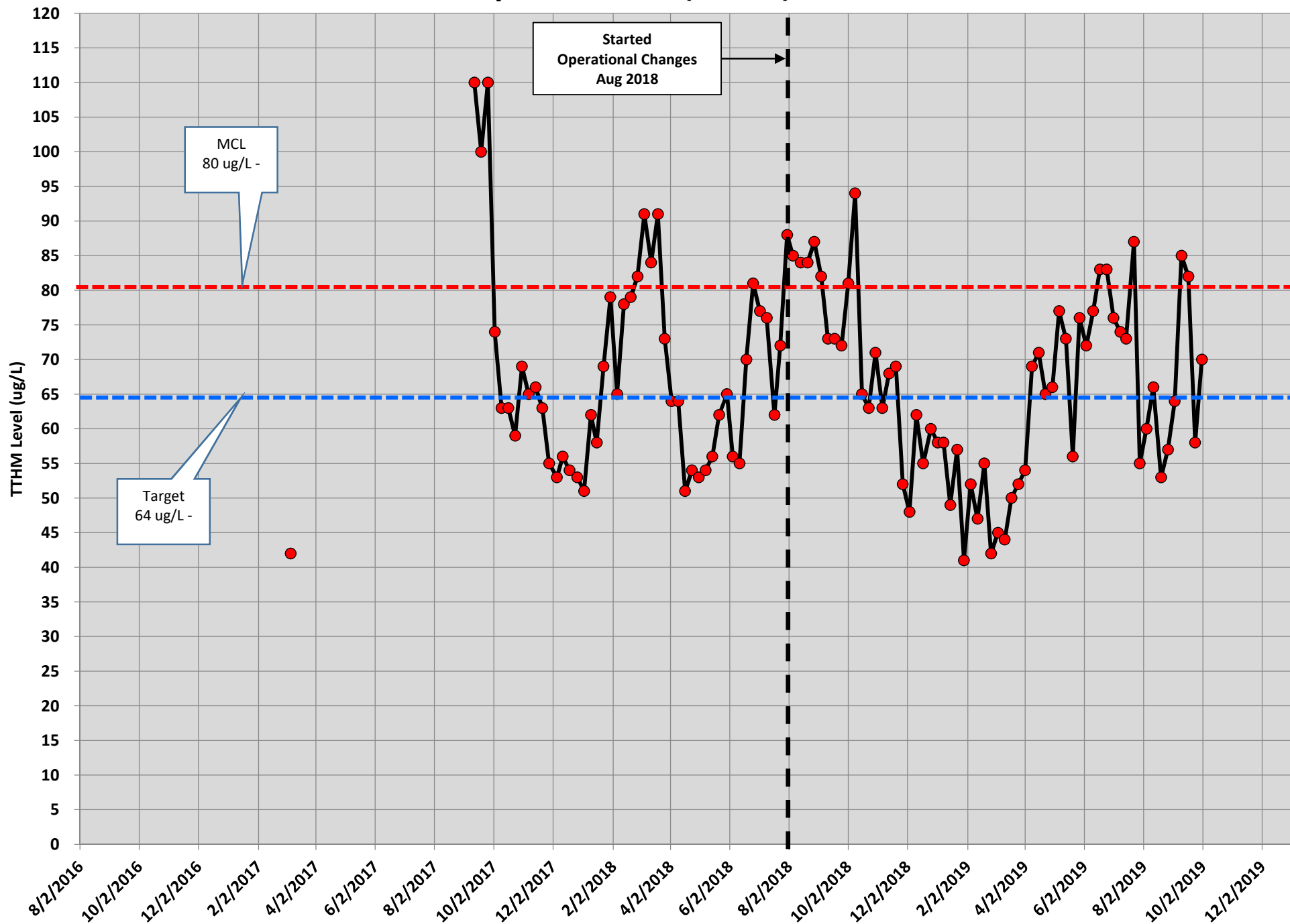
Markridge Reservoir (Zone 5) - TTHMs Levels



Eagle Canyon Reservoir (Zone 5) - TTHMs Levels

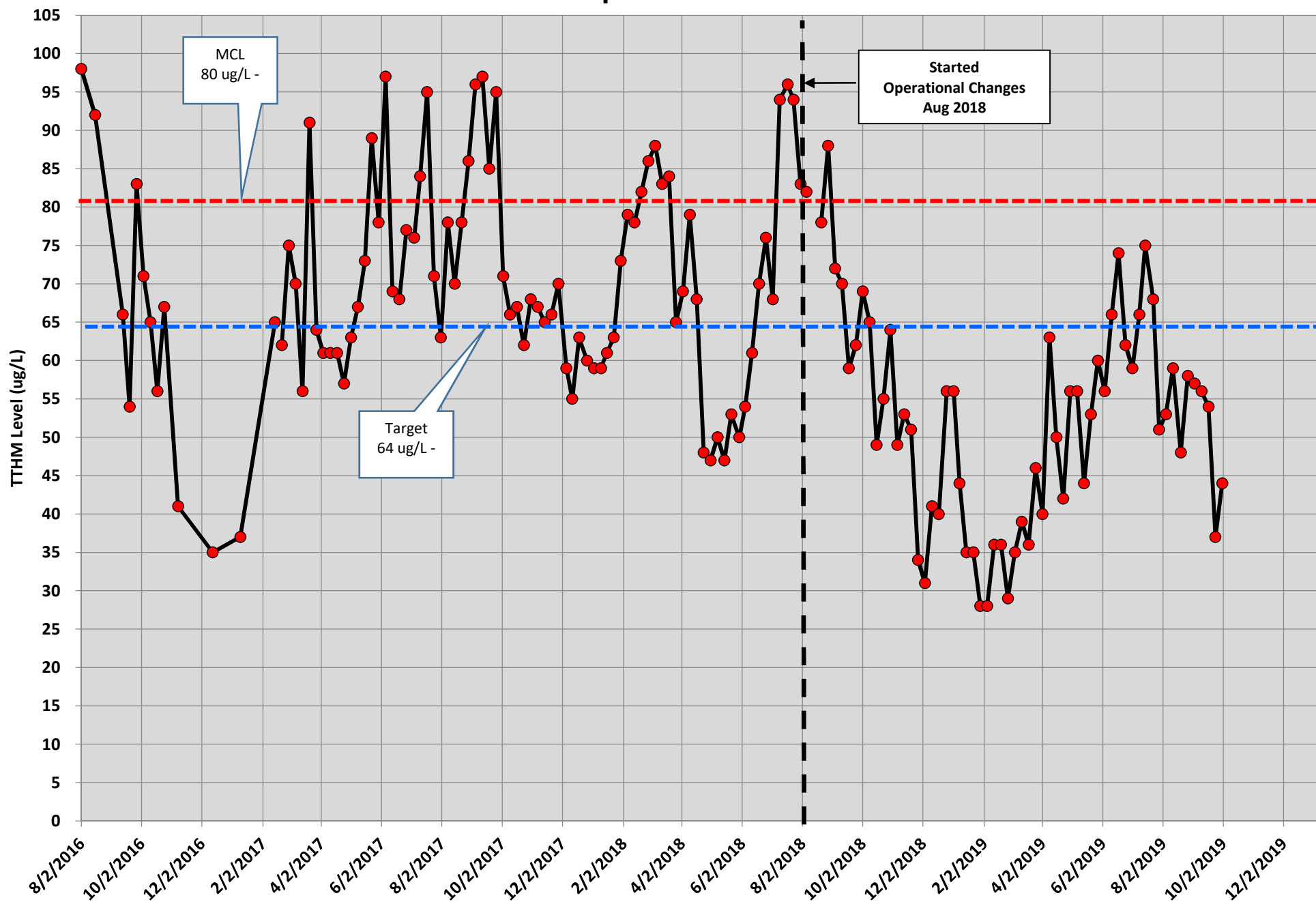


Goss Canyon Reservoir (Zone 6) - TTHMs Levels

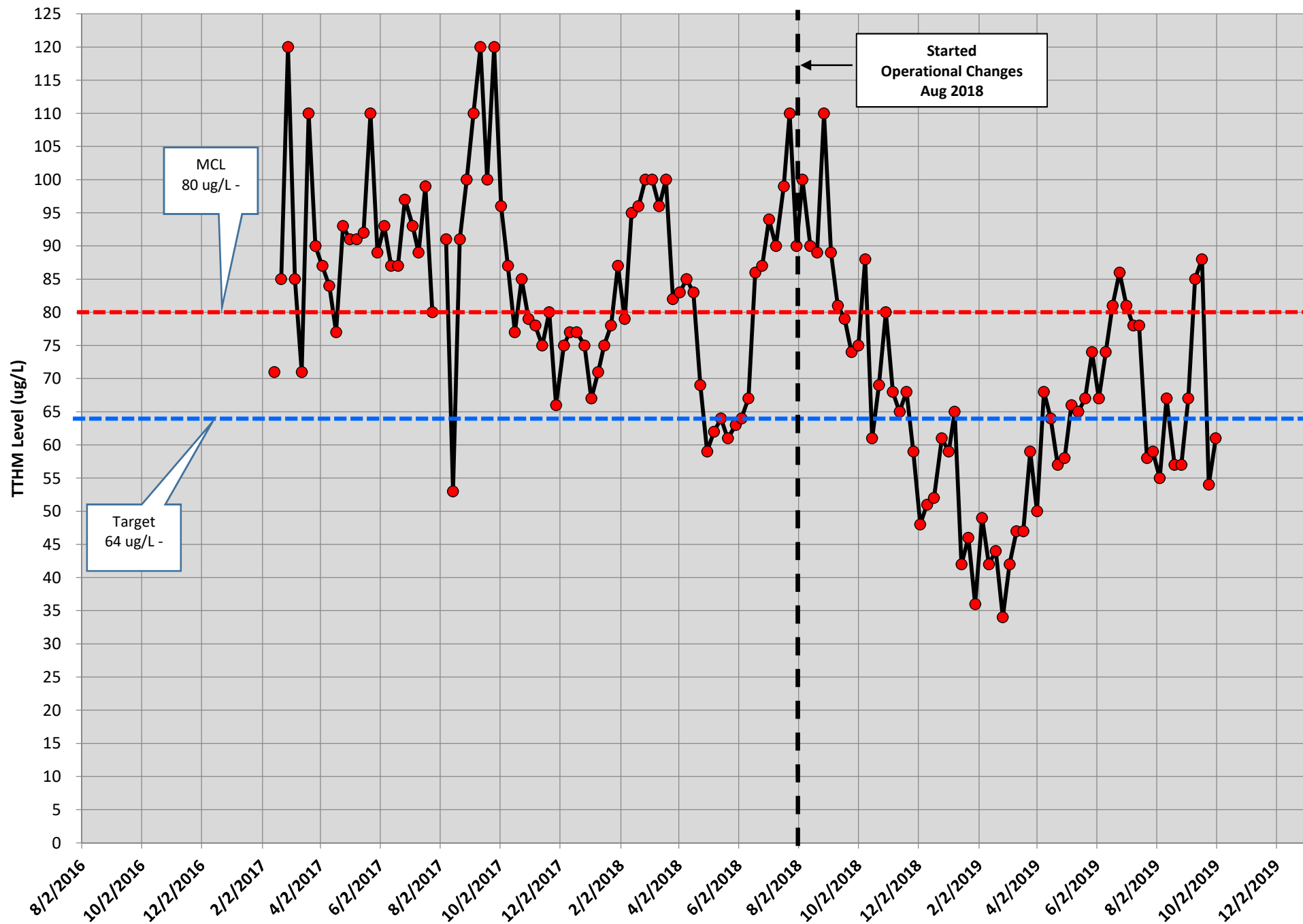


Dunsmore Reservoir (Zone 7) - TTHMs Levels

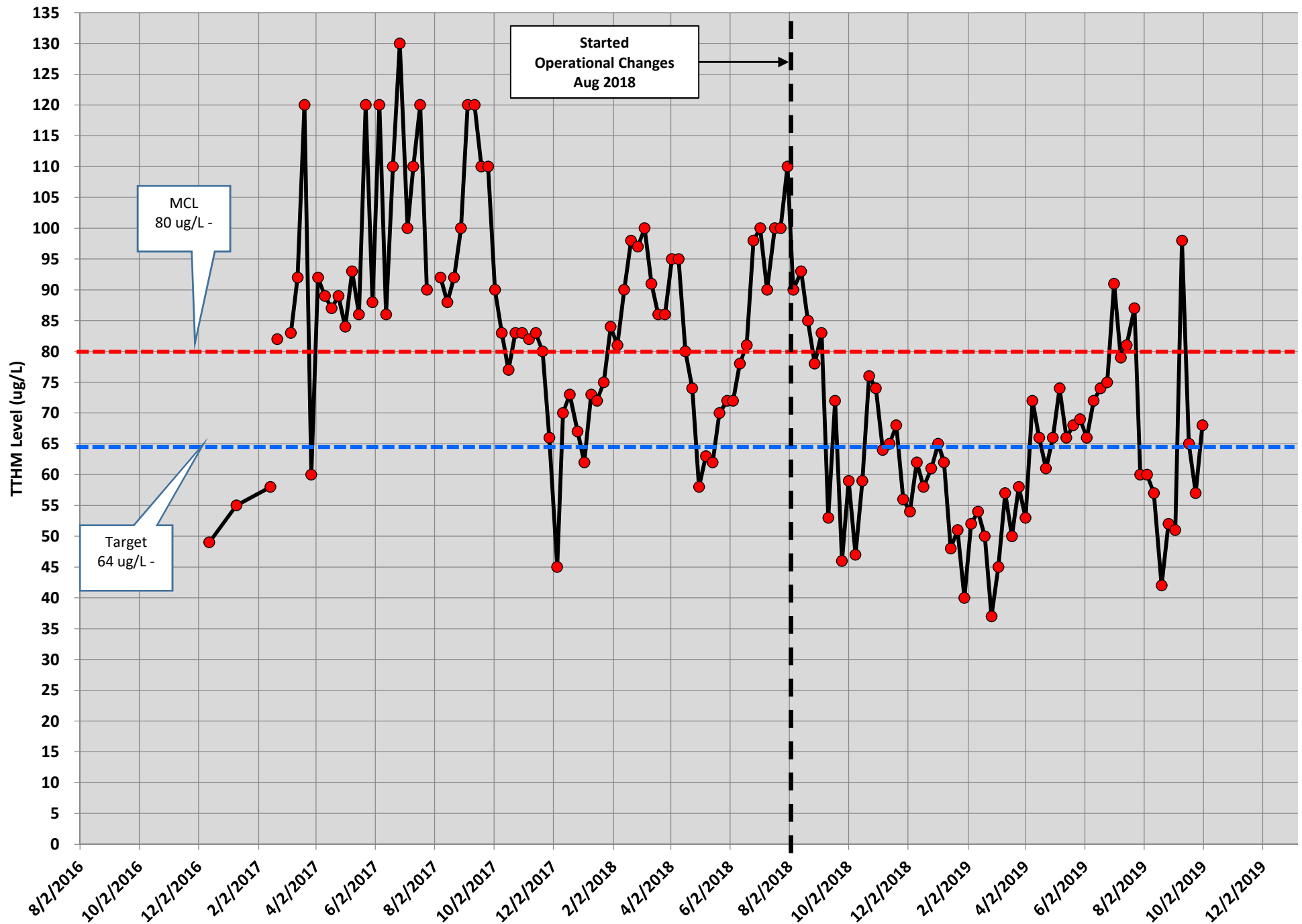
Compliance Location



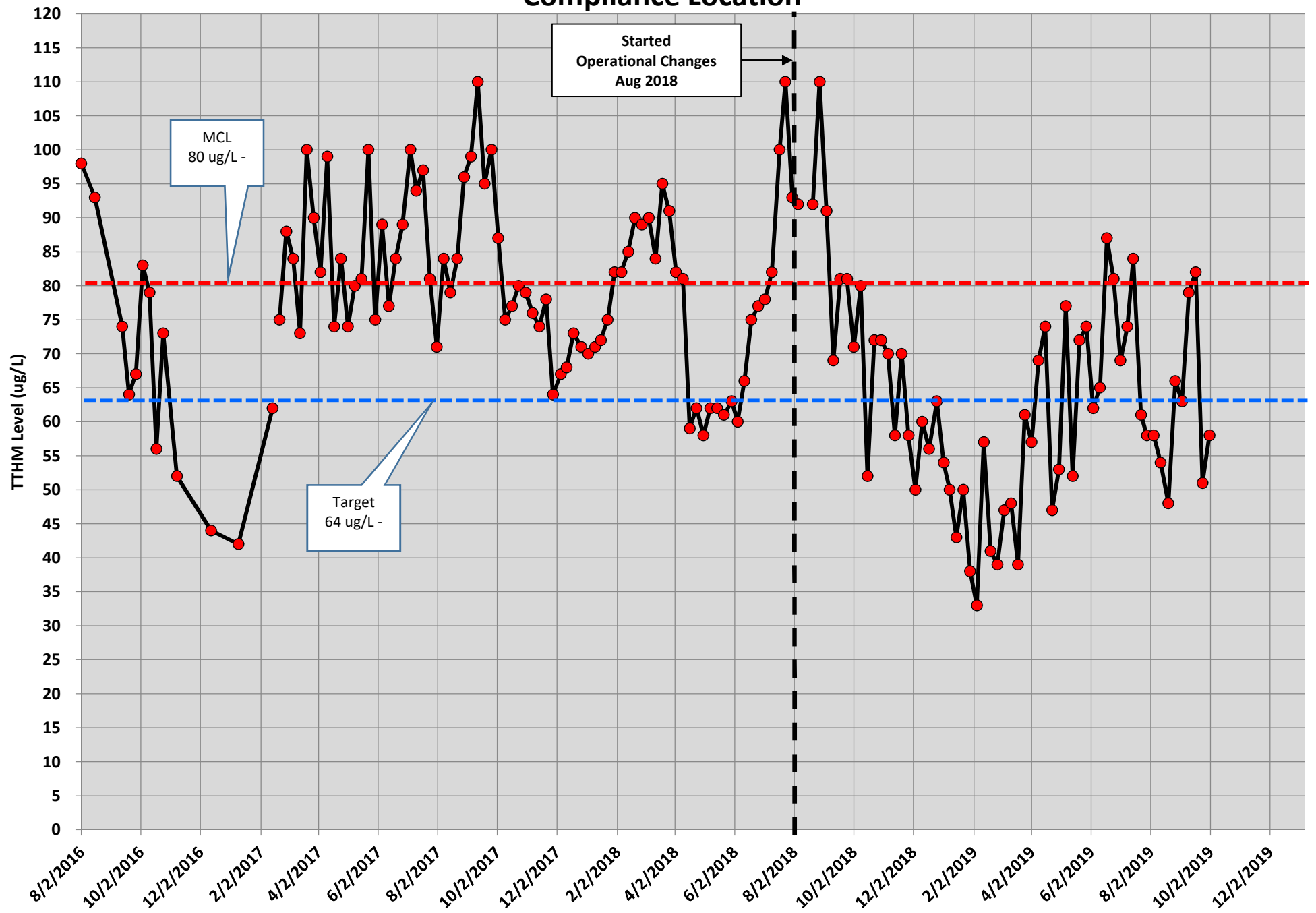
Cresta Heights Reservoir (Zone 8) - TTHMs Levels



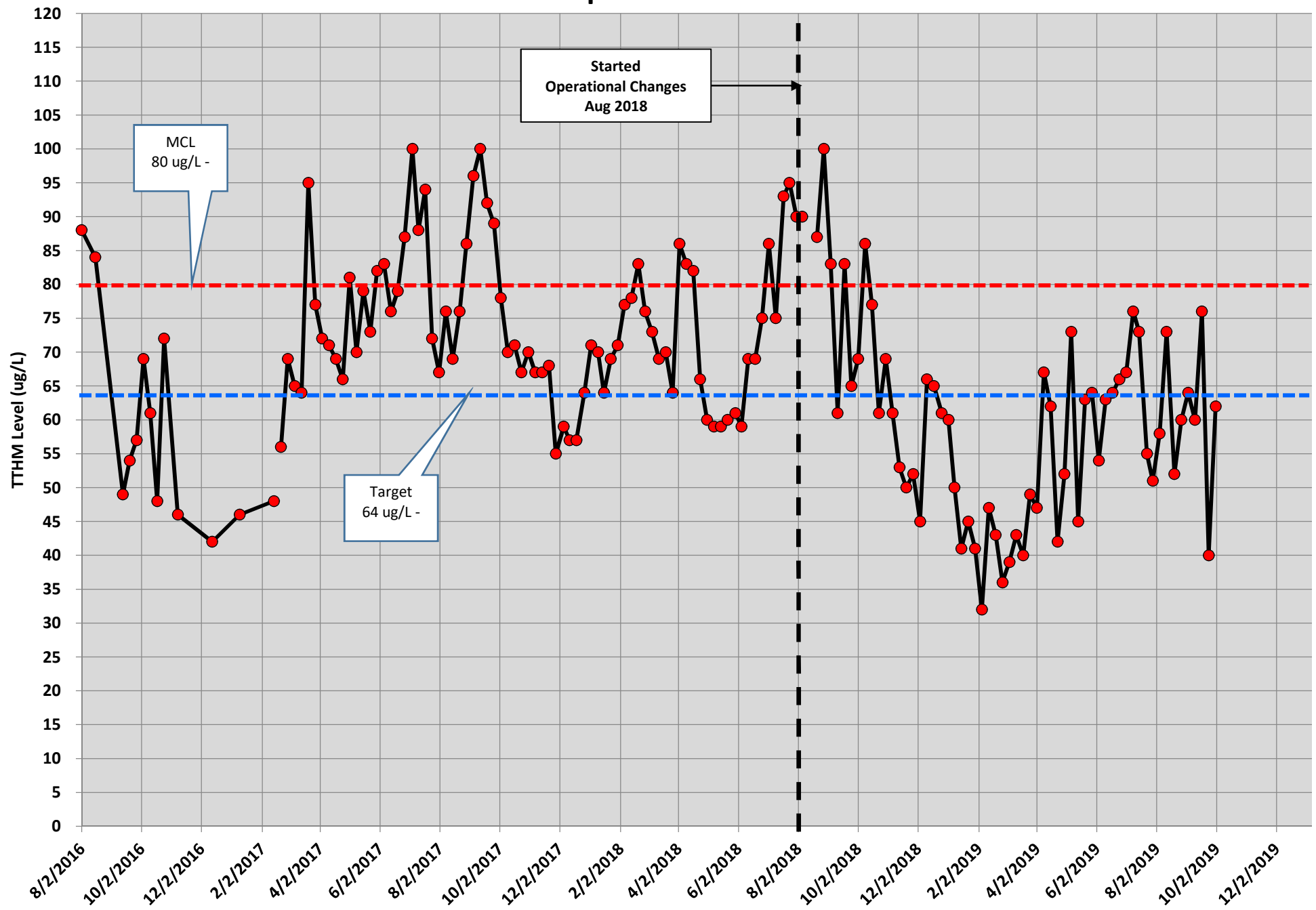
Edmund No. 1 Reservoir (Zone 9) - TTHMs Level



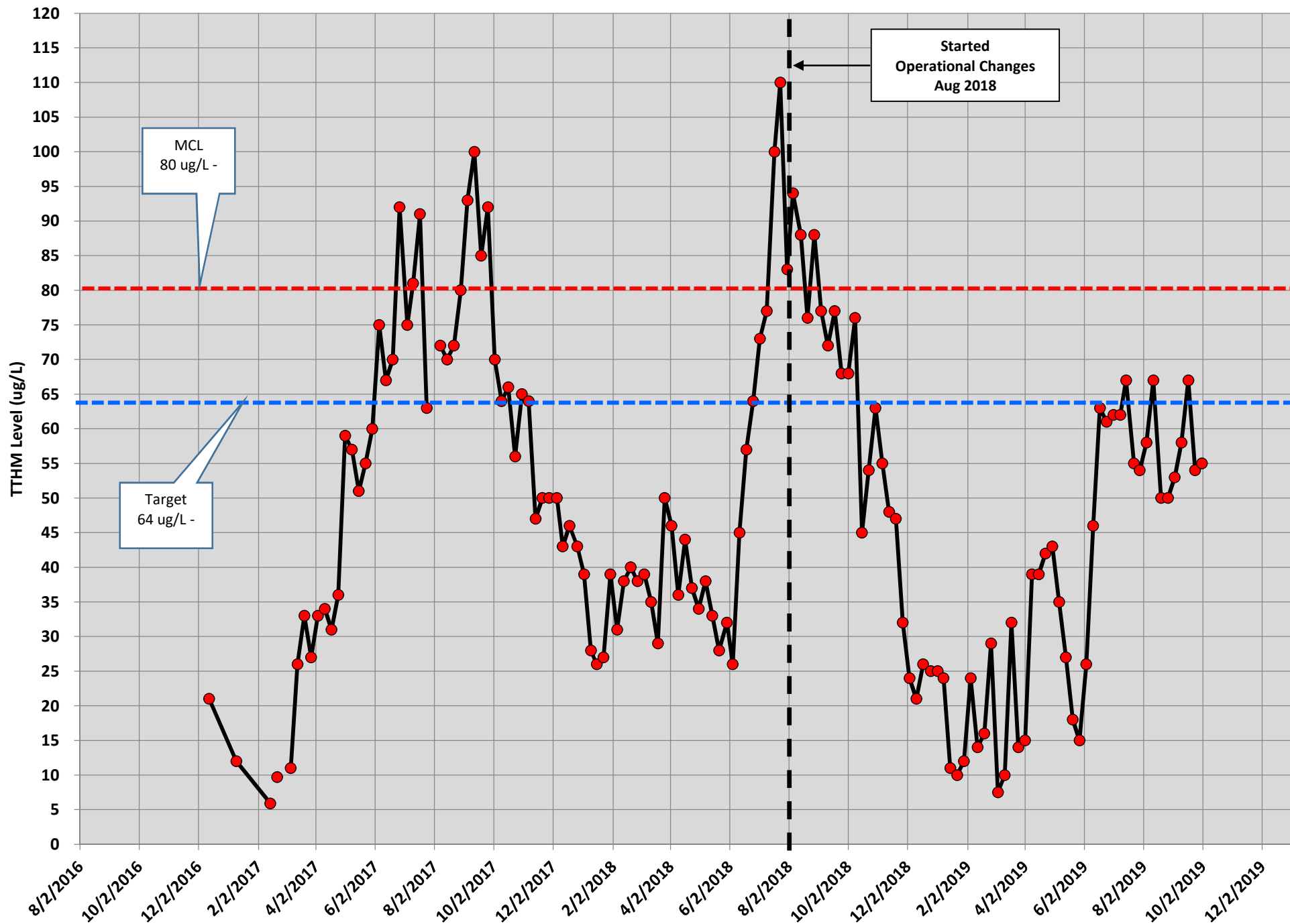
Edmund No. 2 (Zone 9) - TTHMs Levels Compliance Location



Shields Reservoir (Zone 10) - TTHMs Levels Compliance Location



Pickens Reservoir (Zone 11) - TTHMs Levels



CRESCENTA VALLEY WATER DISTRICT

General Manager Report

GM Report

October 8, 2019

To: Honorable President and Members of the Board of Directors

From: Nem Ochoa, General Manager

Subject: **General Manager Report**

General Managers Report Topics:

- GM Activities

The following are some highlights in this month's report:

- Water Production
- Hydrology Report
- Engineering Projects
- Operational Activities

STAFFING

2 employees have work anniversaries in October. Jim Halaszynski – 22 years, Jaysen Ortega – 6 years

As of October 4th the District has gone 8 days without a lost time accident.

GENERAL MANAGER ACTIVITIES

Meetings:

Lunch Meeting with Glendale USD

Ron Mitchell Retirement Party

Management staff meetings

- September 25th

- September 27th

- September 30th, October 7th

Submitted by:



Nem Ochoa
General Manager

Engineering and Operations

October 8, 2019
Staff Report

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – Director of Engineering
Subject: Engineering & Operations – September 2019

1. **Water Production Report**

- September 1 – 30 – Water production – 48%/52% split – 128.5 MG for the time period
- Average use – 8.9% greater than 2018 and 9.0% greater than 5-yr average
- Groundwater - 18/19 Water Year = 1,721 ac-ft; increase by 20% or 285 ac-ft from last year.

2. **Rainfall Update**

- 0.03” for September 2019
- Rainfall Total for Rainfall Year 2018/19 – 32.06”

3. **Report on Engineering**

- **CIP Projects**
 - Pipeline Replacement – 3200 & 3300 Blocks of Brookhill
 - Community Meeting – Oct. 10
 - Start Construction – Oct. 15
 - Pipeline Replacement – 4700 & 4800 Blocks of Pennsylvania
 - o Pipeline construction – To be completed by Oct 10
 - o Pipeline trench paving – Start – Oct 14
 - Markridge Reservoir Rehabilitation – Award of Contract
- **Nitrate Removal Treatment Facility at Well 2 Project**
 - Staff and APTwater continuing training and transfer to CVWD by the end of the year
- **Grant Program**
 - No Report
- **Water Meter Replacement Program**
 - Program to re-start in January 2020

4. **Report on Administrative and Field Operations**

- **Wells Status** – Well production capacity decreased to 1.9 mgd as Well 16 due to the motor failing. Staff to begin work on rehabilitation of Well 16.

5. **Developer Projects**

- 2225 Mira Vista – New 9-unit multifamily dwelling – Pending Transfer of Ownership
- 2218 Montrose – New 8-unit multifamily dwelling – Pending Transfer of Ownership
- 4520 Montrose – New 6-unit multifamily dwelling – Waiting on developer
- 2341 Mira Vista – New 6-unit multifamily dwelling – Waiting on developer
- 2345 Mira Vista – New 4-unit multifamily dwelling – Waiting on developer
- 2314 Montrose – New 5 unit multifamily dwelling – Waiting on developer
- 4521 Briggs – New 27 unit multifamily dwelling – Will Serve Assessment

6. **Street Projects**

- Pennsylvania Paving Project – City of Glendale – Final Punch List
- Verdugo Paving Project – City of Glendale – Design Phase
- Sports Medicine Building at CVHS – Complete
- Cloud Pre-school – GUSD – 8-inch main upgrade on Cloud Ave

7. Field Maintenance & Operations – September 1, 2019 – September 30, 2019

- **Water Lateral Leaks & Repairs**

5347 Briggs	4842 El Sereno	2843 Orange
3157 Alabama	2209 Maurice	2929 El Caminito
2534 Mary	2341 Teasley	

- **Water Main Leaks**

- No Report

- **Valve Replacement**

- No Report

- **Fire Hydrant Repair**

- No Report

- **Booster Pump Maintenance**

- No Report

- **Reservoir Maintenance**

- No Report

- **Sewer Maintenance – September 1, 2019 – September 30, 2019**

5400 Block of Pineglenn	5500 Block of Mountain Pine.	2600 Block of Brierhaven
5400 Block of Pineridge	2500 Block of Olive	2500 Block of Rockdell

CRESCENTA VALLEY WATER DISTRICT

WATER PRODUCTION REPORT

September 1 - September 30, 2019

Well Production:	56,122,400	Gals		
GWP Production:	3,687,000	Gals		
Gravity Production:	1,522,000	Gals	% GW	48%
Purchased Water:				
FMWD:	67,167,000	Gals		
City of Glendale:	0	Gals	% Import	52%
TOTAL:	128,498,400	Gals		
	394.35	ac-ft		
Glenwood Nitrate Water				
Reclamation Plant:*	4,409,000		*Included in Well Production	

WATER DEMAND COMPARISON

Time Period	Average Daily Usage (gals)	Current Period Change
September 1 - September 30, 2019	4,277,660	
September 1 - September 30, 2018	3,928,764	8.9%
5-yr Average - September 2014 - 2018	3,924,364	9.0%

RAINFALL: Sept 1 - Sept 30, 2019 0.03"

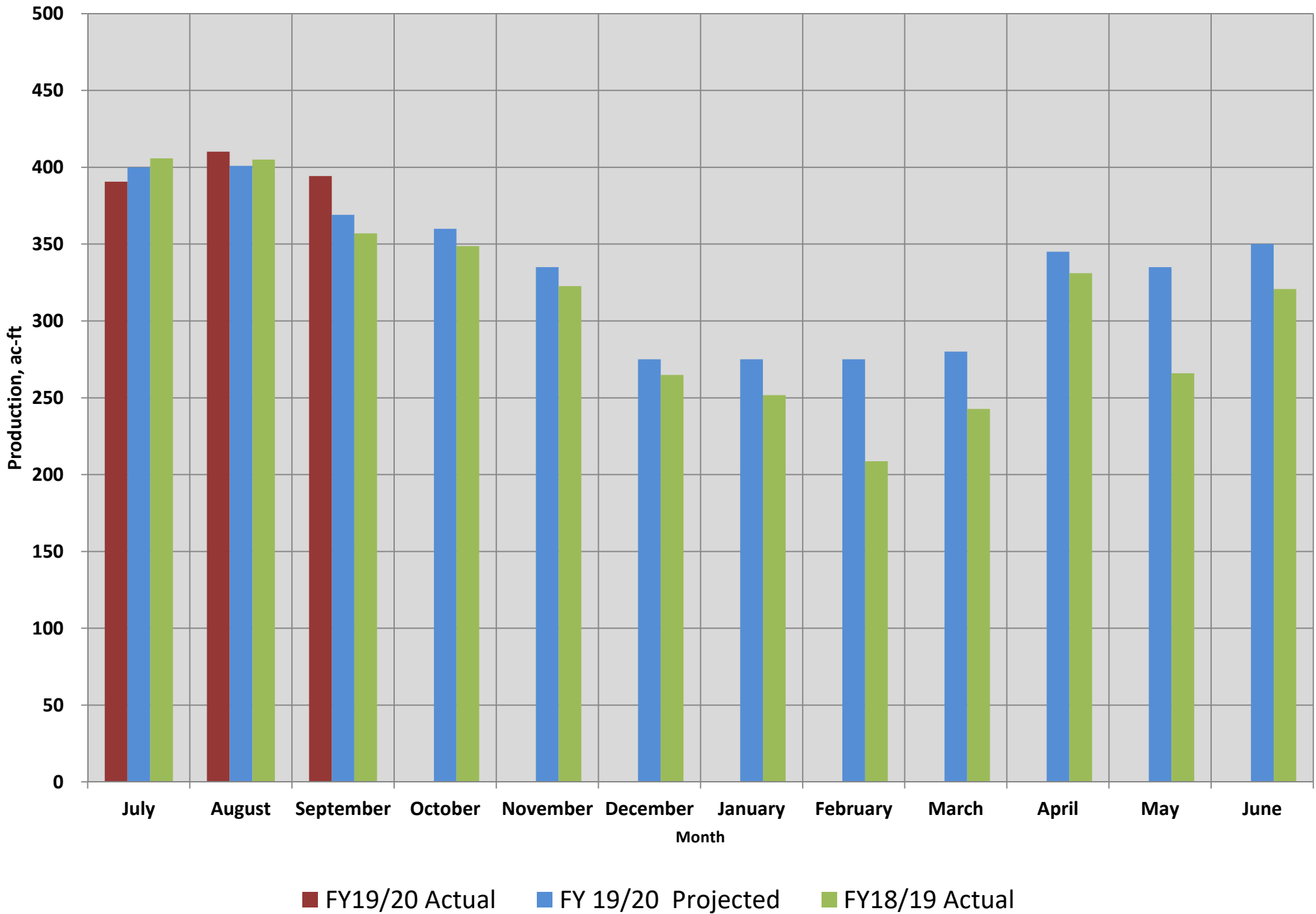
Season-To-Date: 32.06"

2019/20 Fiscal Year Water Production			WY 18/19 - Groundwater Production Water Rights		GWP (Well 16) Water Production - 2019		Purchased Water Production Tier 2 Allocation 2019	
Month	Actual Total Water Production (ac-ft)	Projected Total Water Production (ac-ft)	Month	Month	Month	Well Production (ac-ft)	Month	Imported Water Production (ac-ft)
July	391	400	October	129	January	18	January	123
August	410	401	November	113	February	16	February	77
September	394	369	December	114	March	16	March	77
October		360	January	118	April	15	April	155
November		335	February	120	May	17	May	105
December		275	March	157	June	16	June	162
January		275	April	168	July	16	July	219
February		275	May	151	August	15	August	224
March		280	June	148	September	11	September	206
April		345	July	156	October		October	
May		335	August	171	November		November	
June		350	September	177	December		December	
Total to Date	1,195	1,170	Total to Date	1,721	Total to Date	140	Total to Date	1,349
Projected	4,025	4,000	Water Rights	3,294			Tier 2	2,154
% of Projected	29.9%	29.3%	% of Rights	52%			% of Allocation	63%
Remaining	2,805	2,830	Remaining	1,573			Remaining	805

NOTE:

1) Blue Numbers = Estimated Water Production

Monthly Water Production: FY19/20 Actual, FY 19/20 Projected & FY18/19 Actual



Monthly Rainfall - 1963/64 - 2018/19 (Oct.- Sept)

