



## Chromium-6 Mitigation Project Brief & Timeline

On July 1, 2014, the maximum contaminate level (MCL) was reduced from 50 parts per billion (ppb) for total chromium to 10 ppb for hexavalent chromium (Chromium-6). The District was involved in supporting legislation (SB385) to increase the amount of time allowed to come into compliance. As a result, all water agencies must comply as quickly as possible with the new MCL, but no later than January 1, 2020.

Presently, four of the District's 11 active wells exceed the new MCL of 10 ppb.

Well Number	1st Qtr 2017	2nd Qtr 2017	3rd Qtr 2016	4th Qtr 2016	Average	Sample Dates
1-B	0	0	0	0	0	2/16/2017, 4/11/2017, 7/18/2016, 11/28/2016
2	5.1	6	4.9	7	5.75	2/16/2017, 4/11/2017, 7/11/2016, 11/29/2016
2-A	0	0	0	0	0	2/16/2017, 4/11/2017, 7/18/2016, 11/28/2016
5	1.6	0	1.6	2.2	1.35	2/24/2016, 5/15/2017, 7/11/2016, 11/29/2016
6-A	13	11	11	11	11.5	2/16/2017, 4/11/2017, 7/12/2016, 11/29/2016
6-B	9.9	9.3	9.1	10	9.575	2/23/2017, 6/12/2017, 7/12/2016, 11/29/2016
9-B	1.2	1.4	0	1.3	0.975	2/16/2017, 4/11/2017, 7/11/2016, 11/15/2016
10	14	15	14	14	14.25	2/23/2017, 4/11/2017, 7/19/2016, 11/29/2016
11	9.5	10	9.4	9.6	9.625	2/23/2017, 4/11/2017, 7/19/2016, 11/29/2016
12	15	15	18	14	15.5	3/3/2016, 6/30/2017, 7/19/2016, 11/29/2016
14	11	14	13	13	12.75	2/16/2017, 4/11/2017, 7/19/2016, 11/29/2016

Updated 7/6/2017

District staff worked diligently to determine if there was a reasonable and economical method to reduce the MCL by means other than blending given different flow rates, pressure, and operational parameters. It was determined blending was the best option available to the District. Given the varying flow rates, locations, pump designs, well zone structures, and levels of Chromium-6 present, it is not currently feasible to blend water to obtain an acceptable MCL utilizing the District's existing infrastructure and currently integrated water sources. The District recently obtained new ground water sources via the acquisition of property and water rights which contain water suitable for blending; however, the District must install additional infrastructure in order to incorporate the new water sources into the existing system. This has been determined to be the most fiscally prudent option compared to other treatment methods and this option will increase the District's overall water supply. For a detailed presentation regarding the various options investigated, please visit: <https://www.pphcsd.org/chrom603022016.pdf>

Presently, the District is working on obtaining funding for the Chromium-6 Mitigation Project. The District is utilizing a consultant with Title-16 experience to prepare a Preliminary Engineering Report (PER) for three funding sources. The report will summarize the project, the method to mitigate the Chromium-6 levels mandated by the state, and the financial methods for funding qualifications. This report will encompass the requirements for all three funding sources. The funding sources are as follows:

Bureau of Reclamation – Title 16 (allocated to MWA \$3.7 million grant)

- WaterSMART application
- Reclamation Manual (Engineering Report)
- California Environmental Quality Act (CEQA)

State Water Resources Control Board (SWRCB) - State Revolving Funds

- CEQA
- Applications:
- General Information
- Environmental Package (Construction)
- Technical Package (Construction)
- Financial Security Package (Construction)
- Engineering Report

United States Department of Agriculture (USDA) Loan and Grants

- Preliminary Engineering Report (PER)
- Application
- NEPA / CEQA

On September 12, 2016, staff met with the Planning, Resources, & Technology Committee at the Mojave Water Agency (MWA) where District staff presented its proposed mitigation project plan. The committee recommended to move forward with presenting the District's plan to MWA's full board for possible approval of funding assistance. Staff also submitted a letter to MWA's board requesting their assistance in seeking funding. On September 22, 2016, MWA's board authorized the District to utilize \$3.7 million of MWA's remaining Title XVI funds by a 7-0 vote. This authorization will support the District's application to the Bureau of Reclamation in the amount of \$3.7 million.

In compliance with SB385, the District completed its first notification to the public on March 1, 2016. The second notification took place September 1, 2016. The District will complete two notifications annually; one in March and one in September. The notice will utilize the public notification template provided by the State Water Resources Control Board. The method of delivery will include a mailing to customers via the United States Postal Service and as a posting on the District's website. To view the notification that took place on September 1, 2016, please visit: <https://www.pphcsd.org/Chromium6%20Notification%203-2016.pdf>

*The following is the proposed timeline for the Phelan Piñon Hills Community Services District's Chromium-6 Mitigation Project. This timeline is subject to change and will be updated from time-to-time. As of September 21, 2016, the District is on schedule to obtain compliance by January 1, 2020.*

- |   |                          |
|---|--------------------------|
| A) Feasibility Study                                  | December 8, 2015 – 100%  |
| B) Preliminary Design & Selection of Treatment Option | December 16, 2015 – 100% |

