

## **SPECIAL ENGINEERING COMMITTEE MEETING AGENDA**

December 6, 2023 – 4:30 P.M.  
Phelan Community Center  
4128 Warbler Road, Phelan, CA 92371  
& Via Conference Call (see below)

### **ENGINEERING COMMITTEE MEETING – 4:30 P.M.**

**Call to Order** – Pledge of Allegiance

#### **Roll Call**

#### 1) **Approval of Agenda**

2) **Public Comment** – Under this item, any member of the public wishing to directly address the Board on any item of interest that may or may not be within the subject matter jurisdiction of the Board, but not listed on the agenda, may do so at this time. However, the Board is prohibited by law from taking any action on any item not appearing on the agenda unless the action is otherwise authorized by the Brown Act. Any member of the public wishing to directly address the Board on any item listed on the agenda may do so when the item is being considered by the Board. *If you wish to address the Board, please do so by the method listed on the first page of this agenda.* Speakers are requested to be brief in their remarks. The Chair may limit each speaker to a comment period of five (5) minutes.

#### 3) **Approval of Minutes**

#### 4) **Oeste Recharge Study Project**

#### 5) **Discussion Regarding Water System**

- Pumps and Wells Services Agreement
- 10-Year Tank Rehabilitation & Maintenance Service
- Water Quality
- Service Line Replacement Program Update
- Other Repairs/Replacements/Updates/Maintenance

#### 6) **Smithson Springs Update**

#### 7) **State Regulations Update**

#### 8) **Discussion Regarding Sedaru Software Replacement**

#### 9) **Review of Current Projects**

- Well No. 15
- Well No. 17
- Future Well No. 18
- Tank 6A

#### 10) **Staff Reports**



#### **Mission Statement:**

*The Mission of the Phelan Piñon Hills Community Services District is to efficiently provide authorized services and maximize resources for the benefit of the community.*

#### **Authorized Services:**

- Water
- Parks & Recreation
- Street Lighting
- Solid Waste & Recycling

- 11) **Review of Action Items**
  - a) **Prior Meeting**
    - Presentation on Chromium-6 to Board
    - Oeste production numbers and return flows
  - b) **Current Meeting**
- 12) **Set Agenda for Next Meeting** – January 17, 2024
- 13) **Adjournment**

*Pursuant to Government Code Section 54954.2(a), any request for a disability-related modification or accommodation, including auxiliary aids or services, that is sought in order to participate in the above-agendized public meeting should be directed to the District's General Manager at (760) 868-1212 at least 24 hours prior to said meeting.*

Agenda materials can be viewed online at [www.pphcsd.org](http://www.pphcsd.org)

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**Written Comments:**

You may also email your public comment to the Board Secretary at [ksevy@pphcsd.org](mailto:ksevy@pphcsd.org) by the meeting start time listed on this agenda. Your comment will be added to the record by the Board Secretary.

*Please check the District website for updates on this meeting. We encourage you to sign up for our email notifications by emailing [ksevy@pphcsd.org](mailto:ksevy@pphcsd.org) or by visiting our website and completing the signup form at [www.pphcsd.org](http://www.pphcsd.org) under the "Agendas and Minutes" tab.*

## **SPECIAL ENGINEERING COMMITTEE MEETING MINUTES**

October 18, 2023 – 4:30 p.m.  
Phelan Community Center  
4128 Warbler Road, Phelan, CA 92371  
& Remotely Via Zoom or Conference Call

**Board Members Present:** Mark Roberts, Director (Chair)  
Rebecca Kujawa, President

**Staff Present:** Don Bartz, General Manager  
George Cardenas, Engineering Manager  
Kim Sevy, HR & Solid Waste Manager/District Clerk  
Sean Wright, Water Operations Manager  
Chris Cummings, Water Operations Assistant Manager  
Tony De La Rosa, Engineering Technician  
Jennifer Oakes, Executive Management Analyst

### **Call to Order**

Director Roberts called the meeting to order at 4:30 p.m.

### **Roll Call**

All Committee Members were present at Roll Call.

- 1) **Approval of Agenda**  
Vice President Roberts moved to approve the Agenda. President Kujawa seconded the motion. Motion passed unanimously.
- 2) **Public Comment** – None
- 3) **Approval of Minutes**  
President Kujawa moved to approve the Minutes. Director Roberts seconded the motion. Motion passed unanimously.
- 4) **Oeste Recharge Study Project**  
Reviewed well levels and constituents. MWA is currently in the RFP process for the project. Information was included in the Agenda materials.
- 5) **Discussion Regarding Water System**
  - **Pumps and Wells Services Agreement**
  - **10-Year Tank Rehabilitation & Maintenance Service**
  - **Water Quality**
  - **Service Line Replacement Program**
  - **Other Repairs/Replacements/Updates/Maintenance**

Staff reported on Well 15 and Well 17, the water meter replacement program, and Tank 6A. A written report was provided in the agenda packet.

6) **Smithson Springs Update**

Mr. Wright reported that the vegetation is getting thick and overgrown. Flow is 4gpm at the upper weir and 2gpm at the lower weir.

7) **State Regulations Update**

Ms. Oakes reported that a presentation on the water use objective is scheduled next month.

8) **GIS Presentation**

Mr. Cardenas and Mr. De La Rosa provided a presentation on the GIS system.

9) **Review of Current Projects**

- **New Well No. 15**
- **Well No. 17**
- **Tank 6A**

Mr. Wright and Mr. Cardenas provided updates on the current projects.

10) **Staff Reports**

Nothing new to report; a written report is in the agenda packet.

11) **Review of Action Items**

a) **Prior Meeting** – Complete

- MWA Monitoring Wells – Depth to Water, Water Quality, & Drill Logs
- Hot Spot Map
- Smithson Spring Flows
- Hydrographs

b) **Current Meeting**

- Presentation on Chromium-6 to Board in October
- Oeste production numbers and return flows

12) **Set Agenda for Next Meeting** – November 15, 2023

- Add Well No. 18

13) **Adjournment**

With no further business before the Committee, the meeting adjourned at 5:05 p.m.

Agenda materials can be viewed online at [www.pphcsd.org](http://www.pphcsd.org)

- Standardized Regulatory Impact Assessment (SRIA) Submitted to Department of Finance: 13 December 2022
  - SRIA
  - DF-131
- Notice of Proposed Rulemaking Published: **16 June 2023**
- Close of the 45-Day Public Comment Period: **04 August 2023**
- Date of Scheduled Public Hearings: **02 August 2023**
- Date Filed with Office of Administrative Law: TBD
- Approved by Office of Administrative Law: TBD
- Filed with the Secretary of State: TBD
- Effective Date: TBD

## Sections Affected

California Code of Regulations: Title 22 Sections: 64415, 64431, 64432, 64447.2, 64465, and 64481.

**Title 22. Social Security**  
**Division 4. Environmental Health**  
**Chapter 15. Domestic Water Quality and Monitoring Regulations**  
**Article 2. General Requirements**

**(1) Amend Section 64415 to read as follows:**

**§ 64415. Laboratory and Personnel.**

(a) Except as provided in subsection (b), required analyses shall be performed by laboratories certified by the State Board to perform such analyses pursuant to Article 3, commencing with section 100825, of Chapter 4 of Part 1 of Division 101, Health and Safety Code. Unless directed otherwise by the State Board, analyses shall be made in accordance with the following U.S. EPA approved methods as prescribed at:

(1) U.S. EPA approved methods as prescribed at 40 Code of Federal Regulations sections 141.23 through 141.41, 141.66, and 141.89 (7-1-2019 edition), which are incorporated by reference; and

(2) U.S. EPA approved methods as prescribed at 40 Code of Federal Regulations section 141.852 (78 Fed. Reg. 10270 (February 13, 2013), as amended at 79 Fed. Reg. 10665 (February 26, 2014)), which is incorporated by reference; and

(3) Methods used for analysis of hexavalent chromium shall be performed using one of the following:

(A) U.S. EPA Method 218.6: Determination of Dissolved Hexavalent Chromium in Drinking Water, Groundwater, and Industrial Wastewater Effluents by Ion Chromatography, Rev. 3.3, (May 1994), which is incorporated by reference in its entirety; and

(B) U.S. EPA Method 218.7: Determination of Hexavalent Chromium in Drinking Water by Ion Chromatography with Post-Column Derivatization and UV-Visible Spectroscopic Detection, Version 1.0, (November 2011), which is incorporated by reference in its entirety.

(b) [No change to text]

Note: Authority cited: Sections 116271, 116350, ~~and 116375~~, and 116385, Health and Safety Code. Reference: Sections 116375, 116385 and 116390, Health and Safety Code; and 40 Code of Federal Regulations 141.

**Article 4. Primary Standards—Inorganic Chemicals**

**(2) Amend Section 64431 to read as follows:**

**§ 64431. Maximum Contaminant Levels—Inorganic Chemicals.**

Public water systems shall comply with the primary MCLs in ~~†~~Table 64431-A as specified in this article.

Table 64431-A  
Maximum Contaminant Levels  
Inorganic Chemicals

<i>Chemical</i>	<i>Maximum Contaminant Level, mg/L</i>
Aluminum	1.
Antimony	0.006
Arsenic	0.010
Asbestos	7 MFL*
Barium	1.
Beryllium	0.004
Cadmium	0.005
<u>Chromium (hexavalent)</u>	<u>0.010</u>
Chromium ( <u>total</u> )	0.05
Cyanide	0.15
Fluoride	2.0
Mercury	0.002
Nickel	0.1
Nitrate (as nitrogen)	10.
Nitrate+Nitrite (sum as nitrogen)	10.

Nitrite (as nitrogen)	1.
Perchlorate	0.006
Selenium	0.05
Thallium	0.002

\* MFL=million fibers per liter; MCL for fibers exceeding 10 µm in length.

Note: Authority cited: Sections 116270, 116271, 116293(b), 116350, 116365, 116365.5 and 116375, Health and Safety Code. Reference: Sections 116365, 116365.5 and 116470, Health and Safety Code.

**(3) Amend Section 64432 to read as follows:**

**§ 64432. Monitoring and Compliance—Inorganic Chemicals.**

(a) All public water systems shall monitor to determine compliance with the nitrate and nitrite MCLs in ~~Table~~ 64431-A, pursuant to subsections (d) through (f) and section 64432.1. All community and nontransient-noncommunity water systems shall monitor to determine compliance with the perchlorate MCL, pursuant to subsections (d), (e), and (l), and section 64432.3. All community and nontransient-noncommunity water systems shall also monitor to determine compliance with the other MCLs in ~~Table~~ 64431-A, pursuant to subsections (b) through (n), and, for asbestos, section 64432.2. Monitoring shall be conducted in the year designated by the State Board of each compliance period beginning with the compliance period starting January 1, 1993.

(b) Unless directed otherwise by the State Board, each community and nontransient-noncommunity water system shall initiate monitoring for an inorganic chemical within six months following the effective date of the regulation establishing the MCL for the chemical and the addition of the chemical to ~~Table~~ 64431-A.

If otherwise performed in accordance with this section, groundwater monitoring for an inorganic chemical performed no more than two years prior to the effective date of the regulation establishing the MCL may be used to satisfy the requirement for initiating monitoring within six months following such effective date.



(c) Unless more frequent monitoring is required pursuant to this Chapter, the frequency of monitoring for the inorganic chemicals listed in ~~Table~~ 64431-A, except for asbestos, nitrate/nitrite, and perchlorate, shall be as follows:

- (1) [No change to text]
- (2) [No change to text]

(d) For the purposes of sections 64432, 64432.1, 64432.2, and 64432.3, detection shall be defined by the detection limits for purposes of reporting (DLRs) in ~~Table~~ 64432-A.

Table 64432-A

Detection Limits for Purposes of Reporting (DLRs) for Regulated Inorganic Chemicals

<i>Chemical</i>	<i>Detection Limit for Purposes of Reporting (DLR) (mg/L)</i>
Aluminum	0.05
Antimony	0.006
Arsenic	0.002
Asbestos	0.2 MFL > 10µm*
Barium	0.1
Beryllium	0.001
Cadmium	0.001
<u>Chromium (hexavalent)</u>	<u>0.0001</u>
Chromium <u>(total)</u>	0.01
Cyanide	0.1
Fluoride	0.1
Mercury	0.001
Nickel	0.01
Nitrate (as nitrogen)	0.4
Nitrite (as nitrogen)	0.4
Perchlorate	0.002 0.001 (Effective January 1, 2024)

Selenium	0.005
Thallium	0.001

\* MFL=million fibers per liter; DLR for fibers exceeding 10 µm in length.

(e) [No change to text]

(f) [No change to text]

(g) [No change to text]

(h) [No change to text]

(i) Compliance with the MCLs shall be determined by a running annual average; if any one sample would cause the annual average to exceed the MCL, the system is immediately in violation. If a system takes more than one sample in a quarter, the average of all the results for that quarter shall be used when calculating the running annual average. If a system fails to complete four consecutive quarters of monitoring, the running annual average shall be based on an average of the available data.

(j) [No change to text]

(k) [No change to text]

(l) [No change to text]

(m) [No change to text]

(n) [No change to text]

(o) Transient-noncommunity water systems shall monitor for the inorganic chemicals in ~~†~~Table 64431-A as follows:

(1) [No change to text]

(2) [No change to text]

(p) A water system shall comply with the chromium (hexavalent) MCL by the applicable compliance date in Table 64432-B.

Table 64432-B  
Chromium (Hexavalent) MCL Compliance Date

<u>System Size</u> <u>(Service Connections Served on [INSERT</u> <u>EFFECTIVE DATE])</u>	<u>Chromium (Hexavalent) MCL</u> <u>Compliance Date</u>
<u>10,000 or greater</u>	<u>[INSERT DATE TWO YEARS AFTER</u> <u>REGULATION TAKES EFFECT]</u>
<u>1,000 to 9,999</u>	<u>[INSERT DATE THREE YEARS AFTER</u> <u>REGULATION TAKES EFFECT]</u>
<u>Fewer than 1,000</u>	<u>[INSERT DATE FOUR YEARS AFTER</u> <u>REGULATION TAKES EFFECT]</u>

(g) If before the applicable compliance date in Table 64432-B, a water system’s monitoring for chromium (hexavalent) conducted pursuant to subsection (b) demonstrates an MCL exceedance as calculated in accordance with subsection (i), then no later than 90 days after the MCL exceedance a water system shall submit to the State Board a Hexavalent Chromium MCL Compliance Plan that is sufficient to demonstrate how the system will comply with the chromium (hexavalent) MCL.

(1) The Hexavalent Chromium MCL Compliance Plan shall state how the water system will comply with the chromium (hexavalent) MCL ~~no later than the applicable compliance date in Table 64432-B~~ and include, at a minimum, the following:

(A) The proposed method for complying with the chromium (hexavalent) MCL; if a new or modified treatment process is proposed, the Hexavalent Chromium MCL Compliance Plan shall include a pilot study adequate to demonstrate that the new or modified treatment process will result in compliance with the chromium (hexavalent) MCL;

(B) If the proposed compliance method requires construction, the date by which the water system will submit to the State Board final plans and specifications for the proposed method of compliance;

(C) If the proposed compliance method requires construction, the anticipated dates for commencing construction and completing 100 percent of construction;

(D) If a new or modified treatment process is proposed, the anticipated date by which a Hexavalent Chromium Operations Plan as specified in subsection (r) will be submitted.

(2) A public water system may make amendments to its Hexavalent Chromium MCL Compliance Plan. Any amendment made shall be submitted to the State Board for review and approval that it meets the requirements of section (1).

(3) A water system shall implement its State Board approved Hexavalent Chromium MCL Compliance Plan by the dates set forth therein.

(r) A water system utilizing a new or modified treatment process to comply with the chromium (hexavalent) MCL shall, prior to serving water treated by the new or modified treatment process to the public, submit to the State Board for review and approval a Hexavalent Chromium Operations Plan sufficient to ensure that water treated by the new or modified treatment process reliably and continuously meets the chromium (hexavalent) MCL. The Hexavalent Chromium Operations Plan shall include, at a minimum, the following:

1. Performance monitoring program that sets out how and when treatment will be monitored to ensure compliance with the chromium (hexavalent) MCL;

2. A program for maintenance of treatment process equipment that describes how and when equipment will be maintained and when equipment replacement is needed to ensure treatment is operating as designed;

3. A description of each treatment unit process and how it is operated;

4. A description of procedures used to determine chemical dose rates sufficient to ensure the treatment process is operating as designed;

5. A description of reliability features incorporated into the treatment process to ensure operation as designed; and

6. Treatment media inspection program sufficient to ensure the media is inspected at intervals and for conditions necessary to ensure compliance with the chromium (hexavalent) MCL.

...

Note: Authority cited: Sections 116271, 116275, 116293(b), 116350 and 116375, Health and Safety Code. Reference: Section 116275 and 116385, Health and Safety Code.

**Article 12. Best Available Technologies (BAT)**

**(4) Amend Section 64447.2 to read as follows:**

**§ 64447.2. Best Available Technologies (BAT)—Inorganic Chemicals.**

The technologies listed in Table 64447.2-A are the best available technology, treatment techniques, or other means available for achieving compliance with the MCLs in Table 64431-A for inorganic chemicals.

Table 64447.2-A  
Best Available Technologies (BATs)  
Inorganic Chemicals

<i>Chemical</i>	<i>Best Available Technologies (BATs)</i>
Aluminum	10
Antimony	2, 7
Arsenic	1, 2, 5, 6, 7, 9, 13
Asbestos	2, 3, 8
Barium	5, 6, 7, 9
Beryllium	1, 2, 5, 6, 7
Cadmium	2, 5, 6, 7
<u>Chromium (hexavalent)</u>	<u>5, 7, 14</u>
Chromium <u>(total)</u>	2, 5, 6 <sup>a</sup> , 7
Cyanide	5, 7, 11
Fluoride	1
Mercury	2 <sup>b</sup> , 4, 6 <sup>b</sup> , 7 <sup>b</sup>
Nickel	5, 6, 7

Nitrate	5, 7, 9
Nitrite	5, 7
Perchlorate	5, 12
Selenium	1, 2 <sup>c</sup> , 6, 7, 9
Thallium	1, 5

<sup>a</sup>BAT for chromium III (trivalent chromium) only.

<sup>b</sup>BAT only if influent mercury concentrations < 10 µg/L.

<sup>c</sup>BAT for selenium IV only.

Key to BATs in Table 64447.2-A:

- 1= Activated Alumina
- 2= Coagulation/Filtration (not BAT for systems <500 service connections)
- 3= Direct and Diatomite Filtration
- 4= Granular Activated Carbon
- 5= Ion Exchange
- 6= Lime Softening (not BAT for systems <500 service connections)
- 7= Reverse Osmosis
- 8= Corrosion Control
- 9= Electrodialysis
- 10= Optimizing treatment and reducing aluminum added
- 11= Chlorine oxidation
- 12= Biological fluidized bed reactor
- 13= Oxidation/Filtration
- 14= Reduction/Coagulation/Filtration

Note: Authority cited: Sections 116271, 116293(b), 116350 and 116375, ~~131052 and 131200~~, Health and Safety Code. Reference: Section 116370, Health and Safety Code.

**Article 18. Notification of Water Consumers and the State Board**

**(5) Amend Section 64463.4 to read as follows:**

**§ 64463.4. Tier 2 Public Notice.**

(a) A water system shall give public notice pursuant to this section if any of the following occurs:

(1) Any violation of the MCL, MRDL, and treatment technique requirements, except:

(A) Where a Tier 1 public notice is required under section 64463.1; or

(B) Where the State Board determines that a Tier 1 public notice is required, based on potential health impacts and persistence of the violations;

(2) All violations of the monitoring and testing procedure requirements in this chapter, and chapters 15.5, 17, and 17.5, for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations;~~or~~

(3) Failure to comply with the terms and conditions of any variance or exemption in place~~;~~ or

(4) Exceedance of the chromium (hexavalent) MCL before the applicable compliance date in Table 64432-B, as calculated in accordance with section 64432, subsection (i).

(b) [No change to text]

(c) [No change to text]

**(6) Amend Section 64465 to read as follows:**

**§ 64465. Public Notice Content and Format.**

...

(d) [No change to text]

**Appendix 64465-A. Health Effects Language  
Microbiological Contaminants**

**Appendix 64465-B. Health Effects Language**

**Surface Water Treatment**

**Appendix 64465-C. Health Effects Language  
Radioactive Contaminants**

**Appendix 64465-D. Health Effects Language  
Inorganic Contaminants**

<i>Contaminant</i>	<i>Health Effects Language</i>
Aluminum	[No change to text]
Antimony	[No change to text]
Arsenic	[No change to text]
Asbestos	[No change to text]
Barium	[No change to text]
Beryllium	[No change to text]
Cadmium	[No change to text]
<u>Chromium (hexavalent)</u>	<u>Some people who drink water containing hexavalent chromium in excess of the MCL over many years may have an increased risk of getting cancer.</u>
Chromium ( <u>total</u> )	[No change to text]
Copper	[No change to text]
Cyanide	[No change to text]
Fluoride	[No change to text]
Lead	[No change to text]
Mercury	[No change to text]
Nickel	[No change to text]
Nitrate	[No change to text]
Nitrite	[No change to text]
Perchlorate	[No change to text]



Selenium	[No change to text]
Thallium	[No change to text]

**Appendix 64465-E. Health Effects Language  
Volatile Organic Contaminants**

**Appendix 64465-F. Health Effects Language  
Synthetic Organic Contaminants**

**Appendix 64465-G. Health Effects Language  
Disinfection Byproducts, Byproduct Precursors, and Disinfection Residuals**

**Appendix 64465-H. Health Effects Language  
Other Treatment Techniques**

*No change to Appendices 64465-A through C or 64465-E through H.*

Note: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code.  
Reference: Sections 116450 and 116470, Health and Safety Code.

**Article 20. Consumer Confidence Report**

**(7) Amend Section 64481 to read as follows:**

**§ 64481. Content of the Consumer Confidence Report.**

...

(c) If any of the following are detected, information for each pursuant to subsection (d) shall be included in the Consumer Confidence Report:

(1) Contaminants subject to an MCL, regulatory action level, MRDL, or treatment technique (regulated contaminants), as specified in sections 64426.1, 64426.6, 64431,

64442, 64443, 64444, 64448, 64449, 64533, 64533.5, 64536, 64536.2, 64653, and 64678;

(2) Contaminants specified in 40 Code of Federal Regulations part 141.40 (7-1-2007 edition) for which monitoring is required (unregulated contaminants);

(3) Microbial contaminants detected as provided under subsection (3); and

(4) Sodium and hardness.

(d) For contaminants identified in subsection (c), the water system shall include in the Consumer Confidence Report one table or several adjacent tables that have been developed pursuant to this subsection. Any additional monitoring results that a water system chooses to include in its Consumer Confidence Report shall be displayed separately.

...

(o) The ~~e~~Consumer ~~e~~Confidence ~~r~~Report prepared and delivered by July 1, 2022 shall, for bacteriological monitoring conducted from January 1, 2021 to June 30, 2021, inclusive, include the following additional information in the report:

(1) The total coliform MCL expressed as shown in ~~t~~Table 64481-C.

Table 64481-C  
Total Coliform MCL for Consumer Confidence Report

<i>Contaminant</i>	<i>MCL</i>
[No change to text]	[No change to text]
[No change to text]	[No change to text]

- (2) [No change to text]
- (3) [No change to text]
- (4) The likely source(s) of any total coliform, fecal coliform, or *E. coli* detected. If the water system lacks specific information on the likely source, the table shall include the typical source for that contaminant listed in Table 64481-D.

Table 64481-D  
Typical Origins of Microbiological Contaminants with Primary MCL

<i>Contaminant</i>	<i>Major Origins in Drinking Water</i>
[No change to text]	[No change to text]
[No change to text]	[No change to text]

- (5) Information on any data indicating violation of the total coliform MCL, including the length of the violation, potential adverse health effects, and actions taken by the water system to address the violation. To describe the potential health effects, the water system shall use the relevant language in Table 64481-E.

Table 64481-E  
Health Effects Language for Microbiological Contaminants

<i>Contaminant</i>	<i>Health Effects Language</i>
[No change to text]	[No change to text]
[No change to text]	[No change to text]
[No change to text]	[No change to text]

- (6) [No change to text]

(p) A Consumer Confidence Report issued after [INSERT EFFECTIVE DATE OF THE PROPOSED REGULATION] and prior to the applicable compliance date in Table 64432-B shall include the following information for chromium (hexavalent):

(1) If chromium (hexavalent) is detected, the Consumer Confidence Report shall include information pursuant to subsections (c) and (d).

(2) If chromium (hexavalent) exceeds the MCL, the Consumer Confidence Report shall include additional information indicated in Table 64481-F.

Table 64481-F CCR Language  
Hexavalent Chromium MCL Exceedance

<u>CCR Language</u>
<u>Chromium (hexavalent) was detected at levels that exceed the chromium (hexavalent) MCL. While a water system of our size is not considered in violation of the chromium (hexavalent) MCL until after [INSERT APPLICABLE TABLE 64432-B COMPLIANCE DATE], we are working to address this exceedance and comply with the MCL. Specifically, we are [INSERT ACTIONS TAKEN AND PLANNED TO COMPLY WITH THE APPLICABLE COMPLIANCE DATE IN TABLE 64432-B].</u>

**Appendix 64481-A.**

**Typical Origins of Contaminants with Primary MCLs, MRDLs,  
Regulatory Action Levels, and Treatment Techniques**

*Contaminant*

*Major origins in drinking water*

*Microbiological*

[No change to text]	[No change to text]
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*Surface water treatment*

[No change to text]	[No change to text]
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*Radioactive*

[No change to text]	[No change to text]
---------------------	---------------------

*Inorganic*

Aluminum	[No change to text]
Antimony	[No change to text]
Arsenic	[No change to text]
Asbestos	[No change to text]
Barium	[No change to text]
Beryllium	[No change to text]
Cadmium	[No change to text]
<u>Chromium (hexavalent)</u>	<u>Erosion of natural deposits; transformation of naturally occurring trivalent chromium to hexavalent chromium by natural processes and human activities such as discharges from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities.</u>
Chromium ( <u>total</u> )	[No change to text]
Copper	[No change to text]
Cyanide	[No change to text]
Fluoride	[No change to text]
Lead	[No change to text]
Mercury	[No change to text]
Nickel	[No change to text]
Nitrate	[No change to text]
Nitrite	[No change to text]
Perchlorate	[No change to text]

Selenium	[No change to text]
Thallium	[No change to text]

*Synthetic organic*

[No change to text]	[No change to text]
---------------------	---------------------

*Volatile organic*

[No change to text]	[No change to text]
---------------------	---------------------

*Disinfection Byproducts, Disinfection Byproduct Precursors, and Disinfectant Residuals*

[No change to text]	[No change to text]
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...

Note: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code.  
Reference: Sections 116275 and 116470, Health and Safety Code.

## Sedaru Software Replacement Alternatives - Implementation and Annual Costs - First Three Years

Current Service: Sedaru

Annual Cost: \$19,872

**First Year Costs Include Implementation and First Year Annual Cost.**

Name	Total First Year Cost	Second Year Cost	Third Year Cost	Total Over 3 Years	Implementation Cost Total	Notes
Cityworks	\$120,000	\$38,000	\$44,200	<b>\$202,200</b>	\$87,000	Annual fees include Tyler (\$5,000 per annum) and Dig Alert API fees (\$8,000 per annum)
Elements XS	\$82,000	\$20,000	\$20,000	<b>\$122,000</b>	\$62,000	Not actual 2nd and 3rd year costs as inflation escalator will be applied each year.
Tyler EAM	\$86,270	\$10,500	\$10,500	<b>\$107,270</b>	\$75,770	While annual fees are lower, more back end staff time will be required with this option.
Mentor APM*	\$120,000	\$20,000	\$20,000	<b>\$160,000</b>	\$100,000	*All costs are estimated per verbal estimate during demo
UtiliSync811*	\$4,950	\$4,950	\$4,950	<b>\$14,850</b>		*UtiliSync811 is only for 811 Dig Alert Ticket maintenance and would be a service that could be used in addition to another service if applicable

### Total Cost Over First Three Years

