CALIFORNIA PUBLIC UTILITIES COMMISSION DIVISION OF WATER AND AUDITS

Advice Letter Cover Sheet

Utility Name: GOLDEN STATE WATER COMPANY

District: COMPANY-WIDE

Date Mailed to Service List: 4/9/2025

CPUC Utility #:	133 W		Protest Deadline	(20 th Day): 4/29/2025
Advice Letter #:	1959-W	1	Review Deadline	(30 th Day): 5/9/2025
Tier	$\Box 1 \boxtimes 2 \Box 3 \Box \text{ Co}$	ompliance	Requested Effe	ctive Date: 10/1/2024
Authorization			R	ate Impact: N/A
Description:	Request to establish the Chro Memorandum Account	omium-6	K	ate Impact.
The protest or response dead see the "Response or Protest"			this advice letter was	s mailed to the service list. Please
Utility Contact	t: Gladys Estrada		Utility Contact:	Brad Powell
Phone	e: (909) 394-3600 x 527	7	Phone:	(909) 394-3600 x 422
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DWA Contact: Phone: Email:	Tariff Unit (415) 703-1133 Water.Division@cpu	uc.ca.gov		
		DWA USE ONLY		
<u>DATE</u>	STAFF		COMN	<u>1ENTS</u>
[] APPROVED		[]WITHDRAWN		[] REJECTED
Signature:		Comments:		



April 9, 2025

Advice Letter No. 1959-W

(U 133 W)

TO THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Golden State Water Company (GSWC) hereby transmits this Tier 2 Advice Letter requesting approval to implement the following tariff sheets applicable to its water operations:

CPUC Sheet No Original No. 9817-W	Title of Sheet Preliminary Statement Chromium-6 (Hexavalent Chromium) Memorandum Account	Canceling <u>CPUC Sheet No.</u>
Revised No. 9818-W	Table of Contents, Page 2	Revised No. 9788-W
Revised No. 9819-W	Table of Contents, Page 1	Revised No. 9816-W

Purpose

GSWC is seeking authorization to establish a Chromium-6 (Hexavalent Chromium) Memorandum Account to track the costs associated with California's newly adopted Maximum Contaminant Levels (MCL) regulations issued on October 1, 2024.

Background

Chromium-6 is a heavy metal that has been used in industrial applications and found naturally occurring throughout the environment. California State Division of Drinking Water (DDW) adopted an MCL of 10 parts per billion (ppb) for chromium-6, which went into effect on October 1, 2024. Prior to October 1, 2024, chromium-6 had been regulated under the total chromium-6 MCL of 50 ppb. Total chromium-6 will continue to exist as an enforceable standard at 50 ppb.

GSWC will be required to comply with the new chromium-6 MCL regulatory deadlines, depending on the size of its water systems. For systems with 10,000 or greater service connections compliance will be needed by October 1, 2026. Water systems with 1,000 to 9,999 service connections will need to be in compliance by October 1, 2027. Additionally, standby sources must be sampled once by December 31, 2028.

Water systems are required to take an initial sample for chromium-6 by April 1, 2025¹. How often systems are required to test for chromium-6 after that depends on whether the water source is surface water or groundwater and whether the source exceeds the new 10 ppb MCL. Water that is being treated to comply with the MCL must be tested monthly.

¹ Hexavalent Chromium MCL (SWRCB-DDW-21-003) | California State Water Resources Control Board, p.7

DDW's new regulations will result in a substantial increase in costs related to testing and monitoring, chemical costs, studies related to treatment options and remediation costs amongst others expenditures that will be required for GSWC's compliance of the newly adopted MCL. These additional costs are not included in presently authorized rates. The requested memorandum account will track the increase in costs related to the new MCL and those authorized in GSWC's Decision 25-01-036. GSWC will incorporate the additional ongoing costs for the new MCL requirement regulations, in its General Rate Case (GRC), to be filed in July 2026 that will set rates starting in 2028.

Memorandum Account Justification

GSWC will need to comply with the new 10 ppb chromium-6 MCL in accordance with the system size and the number of connections served on October 1, 2024. GSWC's compliance will need be done by October 1, 2027 for all its systems.

GSWC is required to take an initial sample for chromium-6 for all its water systems by April 1, 2025. Additional testing and remediation may be necessary and will depend on whether the water source is surface water or groundwater and whether the source exceeds the MCL. Water that is being treated to comply with the MCL must be tested monthly.

GSWC has begun to incur and anticipates incurring substantial costs in order to comply with the new MCL regulation.

The substantial costs GSWC expects to incur include, but are not limited to, the following:

- Laboratory testing and monitoring
- Special studies related to treatment options (basis of design, pilot tests)
- Chemical and operating costs for treatment
- Engineering, design, construction, capital related (e.g., property taxes, federal and state income taxes and depreciation, etc.), labor, operations and maintenance, one-time and ongoing operational and monitoring expenditures for treatment most suited to a particular site or sites

Request To Establish A Memorandum Account

In accordance with the Commission's Standard Practice U-27-W, establishing a memorandum account is conditional and must meet each of the following criteria which have been met by GSWC:

a. The expense is caused by an event of an exceptional nature that is not under the utility's control.

On October 1, 2024, DDW adopted new 10 ppb MCL for chromium-6 to protect the public's health by lowering the MCL. The costs tracked in the Chromium-6 Memorandum Account will be incurred due to the new regulations issued by the DDW to public water systems to comply with the newly adopted MCL. DDW is not under GSWC's control, and the requirement to comply with the new MCL will result in unexpected and unavoidable higher expenses which are both exceptional in nature and not under GSWC's control.

b. The expense cannot have been reasonably foreseen in the utility's last general rate case and will occur before the utility's next scheduled rate case.

GSWC's last General Rate Case (GRC) was filed in August, 2023 for Test Years 2025-2027 with Decision 25-01-036. The DDW adopted the new chromium-6 MCL effective October 1, 2024, therefore, the additional expenses could not have been reasonably foreseen in GSWC's prior GRC and will be incurred before the next scheduled GRC filing in July 2026.

c. The expense is of a substantial nature such that the amount of money involved is worth the effort of processing a memo account.

To date, GSWC has already incurred testing costs associated with the compliance requirements to take an initial sample for chromium-6 of its water systems by April 1, 2025. GSWC estimates incremental costs for testing, monitoring, notifying customers and remediation due to the new requirements. The costs will be substantial. Additional monitoring and compliance requirements are expected to increase substantially before the next GRC is filed and therefore all of the costs to comply with the adopted MCL will be tracked in the memorandum account.

Additionally, the treatment costs associated with remediation for any system with a source exceeding the MCL will require GSCW to submit a proposed method for compliance with the MCL, the date by which the system plans to submit the final plans and specifications for construction, the dates by which the system plans to start and complete any construction, and the date by which the system plans to complete a treatment operations plan.

GSWC estimates that depending on individual system testing results for any system within the service territory with a source exceeding the MCL and based on the design flow of the treatment media needed for treatment, the potential capital cost will be substantial.

GSWC has already started to incur costs associated with compliance of the MCL and will be incurring an estimated \$60,000 within the next month, for pilot and design of wells in its South Arcadia system that have tested above the new adopted MCL. This estimated cost excludes any costs to be incurred to address follow-up sampling results and treatment costs.

GSWC is unable to estimate the company wide total cost for remediation and treatment that may be necessary to comply at this time. The cost of treatment can vary greatly depending on system and site-specific factors, such as fluctuation of additional chromium-6 results, design flow capacity and treatment technology.

GSWC's compliance costs are substantial in nature and require the protection of a memorandum account that provides the opportunity to seek recovery of reasonable and prudent costs at a later date.

d. The ratepayers will benefit by the memo account treatment.

At an MCL of 10 ppb, the health risk from chromium-6 in drinking water is limited to a one-in-two-thousand chance of developing cancer during a lifetime (70 years) of exposure.² Chronic or long-term exposure to water contaminated with chromium-6 may result in liver toxicity, gastrointestinal tumors, and liver cancer.

GSWC's customers will benefit from the establishment of this memorandum account because it will allow GSWC to adequately prepare its water systems for compliance with the updated MCL regulations and conduct sampling, pilot testing, design and construction of the chromium-6 treatment facilities when detected levels exceed the DDW's established MCL.

The expenditures and capital carrying costs tracked in the Chromium-6 Memorandum Account will go through a prudency review by the Commission's Water Division and the Public Advocates Office before recovery is granted.

Memorandum Account Treatment

GSWC is aware that a memorandum account is not a guarantee of eventual recovery of costs, nor is it carried as a regular account under the uniform system of accounts for water utilities. It is carried "off the books" as a memorandum account. Further, it is also known that the Commission's policy on memorandum account treatment has always been that the burden of proof of the reasonableness of costs charged to the account is the responsibility of the utility requesting reimbursement of such costs.

Additional Authority for Requested Memorandum Account

The Commission approved a similar (in nature) request for Chromium-6 Memorandum Account for California American Water Services pursuant to its Advice Letter 1020-A. GSWC requests similar treatment under General Order 96-B, Industry Rule 8.2.

Effective Date

This advice letter is submitted with a Tier 2 designation. GSWC is requesting that this filing become effective on October 1, 2024 to coincide with the new adopted chromium-6 regulations by DDW.

Customer Notice

Pursuant to Water Industry Rule No. 3.2 in the Commission's General Order 96-B, this advice letter does not require a customer notice.

Response or Protest

Anyone may respond to or protest this advice letter (AL). When submitting a response or protest, please include the utility name and advice letter number in the subject line. A response supports the filing and may contain information that proves useful to the Commission in evaluating the advice

² <u>Hexavalent Chromium MCL (SWRCB-DDW-21-003) | California State Water Resources Control Board</u>, p.2 & p.6

letter. A protest objects to the advice letter in whole or in part and must set forth the specific grounds on which it is based. These grounds are:

- 1. The utility did not properly serve or give notice of the AL;
- 2. The relief requested in the AL would violate statute or Commission order, or is not authorized by statute or Commission order on which the utility relies;
- 3. The analysis, calculations, or data in the AL contain material error or omissions;
- 4. The relief requested in the AL is pending before the Commission in a formal proceeding; or
- 5. The relief requested in the AL requires consideration in a formal hearing, or is otherwise inappropriate for the AL process; or
- 6. The relief requested in the AL is unjust, unreasonable, or discriminatory, provided that such a protest may not be made where it would require re-litigating a prior order of the Commission.

A protest may not rely on policy objections to an AL where the relief requested in the AL follows rules or directions established by statute or Commission order applicable to the utility. A protest shall provide citations or proofs where available to allow staff to properly consider the protest.

A response or protest must be made in writing or by electronic mail and must be received by the Water Division (WD) within 20 days of the date this advice letter is filed. The address for mailing or delivering a protest is:

California Public Utilities Commission Water Division 505 Van Ness Avenue San Francisco, CA 94102

E-mail: Water.Division@cpuc.ca.gov

On the same day the response or protest is submitted to WD, the respondent or protestant shall send a copy by mail (or e-mail) to GSWC at the following address:

Golden State Water Company Attn: Gladys Estrada 630 East Foothill Blvd. San Dimas, CA 91773

E-mail: regulatoryaffairs@gswater.com

Cities and counties that need Board of Supervisors or Board of Commissioners approval to protest should inform WD, within the 20 day protest period, so that a late filed protest can be entertained. The informing document should include an estimate of the date the proposed protest might be voted on.

Replies

The utility shall reply to each protest and may reply to any response. Any reply must be received by WD within five business days after the end of the protest period, and shall be served on the same day on each person who filed the protest or response to the AL.

The actions requested in this advice letter are not now the subject of any formal filings with the California Public Utilities Commission, including a formal complaint, nor action in any court of law.

No individuals or utilities have requested notification of filing of tariffs. Distribution of this advice letter is being made to the attached service list in accordance with General Order No. 96-B.

Sincerely,

/s/ Gladys Estrada Gladys Estrada Regulatory Analyst

cc: Wilson Tsai, CPUC - Water Division
Jim Boothe, CPUC - Water Division
Alex Pineda, CPUC- Water Division
Victor Chan, CPUC- Cal Advocates
Richard Rauschmeier, CPUC- Cal Advocates

Preliminary Statement Chromium-6 Memorandum Account

ZZZZ. Chromium-6 (Hexavalent Chromium) Memorandum Account

(N)

1. Purpose

The purpose of the Chromium-6 Memorandum Account is to track the incremental costs incurred to comply with the California State Division of Drinking Water (DDW) Chromium-6 Maximum Contaminant Level (MCL) adopted on October 1, 2024 that are not otherwise covered in GSWC's revenue requirement.

2. Applicability

GSWC expects to incur costs related to, but not limited to, the following:

- Laboratory testing and monitoring
- Special studies related to treatment options (basis of design, pilot tests)
- Chemical and operating costs for treatment
- Engineering, design, construction, capital related (e.g., property taxes, federal and state income
 taxes and depreciation, etc.), labor, operations and maintenance, one-time and ongoing
 operational and monitoring expenditures for treatment most suited to a particular site or sites

3. Accounting Procedure

The Chromium- 6 Memorandum Account has no rate component.

- a. A debit entry shall be made to the Chromium-6 Memorandum Account to record all related costs including, but not limited to, laboratory testing/monitoring, customer/public notifications, chemical costs and special treatment studies, design and construction of treatment facilities.
- b. Interest shall accrue on a monthly basis by applying a rate equal to one-twelfth of the 3-month Commercial Paper Rate, as reported in the Federal Reserve Statistical Release, to the average of the beginning-of-month and end-of balances.

4. Effective Date

The Chromium-6 Memorandum Account is effective October 1 2024, DDW adopted the new MCL regulations.

5. Disposition

Disposition of amounts recorded in the Chromium-6 Memorandum Account shall be determined in GSWC's next General Rate Case application or as otherwise determined by the Commission, if the account's cumulative balance exceeds 2% of GSWC's adopted gross revenues.

(N)

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(To be inserted by utility)	Issued By	(7.	To be inserted by P.U.C.)
Advice Letter No. 1959-W	R. J. Sprowls	Date Filed	
Decision No.	President	Effective	
		Resolution No.	

GOLDEN STATE WATER COMPANY (U 133 W)

630 E. FOOTHILL BLVD. – P.O. BOX 9016 SAN DIMAS, CALIFORNIA 91773-9016 Revised Cal. P.U.C. Sheet No. 9818-W Cancelling Revised Cal. P.U.C. Sheet No. 9788-W

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(To be inserted by utility)	Issued By		To be inserted by P.U.C.)
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GOLDEN STATE WATER COMPANY (U 133 W)

630 E. FOOTHILL BLVD. – P.O. BOX 9016 SAN DIMAS, CALIFORNIA 91773-9016 Revised Cal. P.U.C. Sheet No. 9819-W Cancelling Revised Cal. P.U.C. Sheet No. 9816-W

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Frequently Asked Questions

Maximum Contaminant Level (MCL) for Hexavalent Chromium

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General Information

What is hexavalent chromium, and how can it affect a person's health?

Chromium is an odorless and tasteless heavy metal that occurs throughout the environment and is commonly found in either a trivalent or hexavalent form. The "valent form" of chromium refers to the state of the electrons in a chromium atom in terms of the number of electrons involved in or available for chemical bond formation. Atoms can convert between valence states.

Chronic or long-term exposure to water contaminated with hexavalent chromium may result in liver toxicity, gastrointestinal tumors, and liver cancer.

CALIFORNIA Water Boards

Frequently Asked Questions

Where does hexavalent chromium come from?

Much of the hexavalent chromium found in drinking water occurs naturally throughout California from the erosion of chromium deposits. Contamination also can arise from a variety of industrial activities, including the manufacturing of textile dyes, wood preservation, leather tanning, and anticorrosion coatings, where hexavalent chromium contaminated waste has migrated into the groundwater. Hexavalent chromium pollution can occur when an industrial site fails to follow safe waste disposal methods. Counties with the highest number of water sources that currently exceed the maximum contaminant level (MCL) are San Bernardino, Los Angeles, and Fresno counties.

What is the State Water Board doing to help smaller, disadvantaged communities comply with the new MCL?

The State Water Board has several programs that help smaller, disadvantaged communities achieve compliance with MCLs. These programs include the <u>Drinking Water State Revolving Fund (DWSRF)</u>, principal forgiveness programs, state grants, and the <u>Safe and Affordable Funding for Equity and Resilience (SAFER)</u>, which is designed to ensure Californians who lack safe, adequate, and affordable drinking water receive it as quickly as possible, and that the water systems serving them establish sustainable solutions.

What treatment technologies have been identified as best available technology for addressing hexavalent chromium?

Three treatment technologies have been identified as best available technology (BAT): ion exchange, reduction-coagulation-filtration (RCF), and reverse osmosis. A technology being identified as BAT means that it is a technology that is generally expected to be able to reliably remove the chemical (in this case, hexavalent chromium) from the water to levels below the MCL. Public water systems are not limited to using only those technologies identified as BAT, but they will have to pilot or demonstrate the effectiveness of the treatment.

Current and Future Regulation

How is hexavalent chromium regulated in California drinking water?

In California, hexavalent chromium in drinking water is regulated under the total chromium state MCL of 50 parts per billion (ppb) and the newly-adopted hexavalent chromium MCL of 10 ppb. A maximum contaminant level (MCL) is the highest concentration of chemicals permitted in drinking water systems. The total chromium MCL was established in 1977 and regulates both the less-toxic trivalent form and the hexavalent form. California is the only state to have set its own total chromium MCL; other states use the total chromium federal MCL of 100 ppb to regulate chromium. The newly-adopted MCL regulates hexavalent chromium separately.

Vater Boards

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Is there a point at which MCLs are re-evaluated?

Yes. Each chemical with an MCL above the corresponding PHG is reviewed every five years in a comprehensive MCL review, which is required under Health and Safety Code section 116365(g). The MCL review helps determine which chemicals need MCL or DLR revisions. Once it is determined that greater protection of public health is technologically and economically feasible for a specific chemical, the chemical is added to the regulation priority list for an MCL revision.

Details of 2023-24 Regulation

Who does this regulation apply to?

This regulation applies to public water systems (PWS), not private or domestic wells. Private or domestic well owners can also find more information on testing at the Groundwater Ambient Monitoring and Assessment (GAMA) Program, and information on how to reduce exposure to hexavalent chromium in the answer to "How can a person decrease exposure to any hexavalent chromium in their household water?"

What is the hexavalent chromium MCL and DLR?

The hexavalent chromium MCL is 10 ppb, and the DLR (detection limit for purposes of reporting) is 0.1 ppb. The DLR is the designated minimum levels at or above which any analytical finding of a contaminant in drinking water from monitoring must be reported to the State Water Board.

How did State Water Board staff arrive at the hexavalent chromium MCL?

The State Water Board is required to set MCLs as close to the public health goal (PHG) as is technologically and economically feasible, while primarily considering public health. It is not always feasible to treat or even measure at the very low concentrations that PHGs can be set at. Currently, only a few laboratories have confirmed that they are able to test hexavalent chromium in water as low as the PHG (0.02 ppb), and treatment technologies have not been studied below levels of about 1 ppb. This means that an MCL set at the PHG would not be feasible. In addition, the State Water Board considers the economic impacts of an MCL. The economic analysis for the hexavalent chromium MCL included monthly household costs, unit cost analysis, cost-effectiveness, and considered future regulations that may also have a widespread cost impact.

When and how often will water systems be required to test for hexavalent chromium?

Water systems are required to take an initial sample for hexavalent chromium by April 1, 2025. How often systems are required to test for hexavalent chromium after that depends on whether the water source is surface water or groundwater and whether the source

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exceeds the MCL. Water that is being treated to comply with the MCL must be tested monthly.

Why do small water systems have a later timeline for complying with the hexavalent chromium MCL?

Many small public water systems already have numerous challenges, from compliance to routine maintenance, and more than half of California's water systems have fewer than 100 households over which to spread the costs of any improvements to comply with new standards. Larger water systems usually have more resources (money, staff, etc.) with which to comply with the MCL, and may be able to mobilize and implement treatment more quickly than smaller water systems. An additional benefit of larger systems implementing treatment first is that technologies can be refined and savings discovered before smaller systems are required to comply, which could reduce costs to water systems with the smallest ratepayer bases over which to distribute costs and least able to realize any economies of scale. In addition to considerations of system size, the overall compliance schedule was also designed to allow for lengthier timelines for design and pilot studies, and to allow time for any supply chain delays for treatment equipment.

Therefore, the State Water Board is using the following phased approach for complying with the MCL to give water systems more time:

- Systems with more than 10,000 service connections are required to comply with the MCL by October 1, 2026 (within two years).
- Systems with 1,000 to 10,000 service connections are required to comply with the MCL by October 1, 2027 (within three years).
- Systems with less than 1,000 service connections are required to comply with the MCL by October 1, 2028 (within four years).

What environmental review did the State Water Board conduct in connection with this rulemaking?

When adopting a rule or regulation requiring installation of pollution control equipment, establishing a performance standard, or establishing a treatment requirement, the State Water Board must perform an environmental analysis of the reasonably foreseeable methods by which compliance with that regulation will be achieved (Pub. Resources Code, § 21159; Cal. Code Regs., tit. 14, § 15187). To meet this requirement, the State Water Board prepared a programmatic Environmental Impact Report (EIR) pursuant to the California Environmental Quality Act. Environmental impacts may occur from infrastructure projects that public water systems undertake locally to comply with an MCL for hexavalent chromium, such as the installation of centralized treatment or obtaining new sources of supply. Because the location and technical nature of these local compliance projects are not yet known, the EIR takes a conservative approach to evaluating environmental impacts and finds potentially significant impacts related to a number of environmental resources, and identifies possible mitigation measures for those agencies to consider to reduce environmental impacts to less than significant. It is likely that many of the local projects



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implemented to comply with the MCL will not have significant environmental impacts; however, if there are potentially significant impacts, the agencies undertaking or approving the site-specific projects are able to prepare a focused analysis of the project-specific, potentially significant effects that were not discussed in the State Water Board's EIR on the regulation (See Cal. Code Regs., tit., § 15188). The EIR and appendices are available on the State Water Board's website.

Health Concerns

What are the anticipated health benefits of the hexavalent chromium MCL?

At an MCL of 10 ppb, the health risk from hexavalent chromium in drinking water is limited to a one-in-two-thousand chance of developing cancer during a lifetime (70 years) of exposure.

How can a person go about testing their water for hexavalent chromium?

Persons wishing to test their household water for hexavalent chromium may find information about laboratories accredited by the State Water Board's Environmental Laboratory Accreditation Program (ELAP) to test for hexavalent chromium on the <u>ELAP</u> website. More information regarding domestic well testing can also be found at the Groundwater Ambient Monitoring and Assessment (GAMA) Program.

How can a person decrease exposure to any hexavalent chromium in their household water?

Residential point-of-use (POU) and point-of-entry (POE) devices can be purchased by individuals to reduce exposure to contaminants in their household water. POU devices (often pitcher filters) are much more common than POE devices for hexavalent chromium treatment. A list of certified residential POU and POE devices capable of treating hexavalent chromium is available on the State Water Board's website. Check with the manufacturer and the POU device's hexavalent chromium reduction claims as percent removal may vary by device. Because bottled water is not tested for hexavalent chromium, it is not a recommended means of decreasing exposure to hexavalent chromium.

How can I find out how much hexavalent chromium is in my water?

Hexavalent chromium detections are required to be reported to consumers in annual Consumer Confidence Reports (CCRs). Water system CCRs and any hexavalent chromium testing information may also be available on California's Drinking Water Watch.

CALIFORNIA Water Boards

Frequently Asked Questions

Details for Water Systems

When and how should initial sampling for the hexavalent chromium MCL occur?

Consistent with existing monitoring requirements for inorganic chemicals, each community and non-transient non-community (NTNC) water system, such as schools, must sample their sources for hexavalent chromium by April 1, 2025, unless they are using previously obtained data to satisfy initial monitoring requirements (see next question for details) [22 CCR 64432(b)].

If the initial sample is above 10 ppb, the water system must inform DDW within 48 hours. If a water system wants to confirm that the original result is over the MCL, the water system must inform DDW within 7 days and may take a confirmation sample within 14 days of laboratory notification. The initial sample and the confirmation sample are then averaged to determine whether the source exceeds 10 ppb.

How can previously obtained data be used to satisfy initial monitoring requirements?

A groundwater sample taken within two years of the effective date (after October 1, 2022) of the regulation may be able to be used to satisfy initial monitoring requirements. Previously obtained data cannot be used to satisfy initial monitoring requirements for surface water sources.

What ongoing monitoring is required?

Sources with an initial (or previous qualifying) sample at or below the MCL will be required to sample once every three years (groundwater) or once every year (surface water) [22 CCR 64432(c)].

Sources with an initial sample above the MCL will be required to sample quarterly [22 CCR 64432(g)(1)]. Sources monitoring quarterly may request a decrease in sampling frequency after systems have completed two (for groundwater) or four (for surface water) consecutive quarters of sampling showing results below the MCL [22 CCR 64432(j)].

Any treated water must be sampled monthly [22 CCR 64432.8(a)].

What monitoring is required for standby sources?

Standby sources are required to monitor once per compliance cycle [22 CCR 64414]. All standby sources must sample once by December 31, 2028 (the end of the current compliance cycle), and once in each following nine-year compliance cycle.



Frequently Asked Questions

According to the compliance schedule, when would PWS first be required to comply with (supply water with hexavalent chromium levels below) the MCL?

PWS will be required to comply with the MCL based on the schedule below, such that the first sample used to determine compliance (based on quarterly sampling) would be taken in the first quarter after the applicable date below. For example, since the effective date is October 1, 2024, a system with 15,000 connections would calculate the first annual average for purposes of compliance using sampling from the last quarter of 2026 and the first three quarters of 2027, and a system with 5,000 connections would use the last quarter of 2027 and the first three quarters of 2028. However, if any one sample would cause the annual average to exceed the MCL, the system would immediately be in violation.

Table 1. Compliance Schedule for the Hexavalent Chromium MCL

System Size (as of regulation's effective date)	Compliance Schedule	Compliance Monitoring Begins
10,000 service connections or more	2 years from regulation's effective date	October 1, 2026
1,000 to 9,999 service connections	3 years from regulation's effective date	October 1, 2027
Less than 1,000 service connections	4 years from regulation's effective date	October 1, 2028

How is compliance with the hexavalent chromium MCL assessed after the compliance deadlines?

Compliance with the hexavalent chromium MCL is assessed the same way as the MCLs of other inorganic chemicals: using "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" [22 CCR 64432(i)].

If a system exceeds the MCL before their applicable compliance date, they will not be in violation of the MCL, but they will be required to submit a Hexavalent Chromium Compliance Plan. If a system exceeds the MCL after the applicable compliance date, they would be in violation of the MCL, but do not have to submit a Hexavalent Chromium Compliance Plan [22 CCR 64432(q)].

Vater Boards

Frequently Asked Questions

What is the Hexavalent Chromium Compliance Plan?

The Hexavalent Chromium MCL Compliance Plan is a description from any system with a source exceeding the MCL before their applicable compliance date in Table 1 explaining how they will come into compliance with the MCL [22 CCR 64432(q)]. These plans are required to include the proposed method for compliance with the MCL, the date by which the system plans to submit the final plans and specifications for any construction, the dates by which the system plans to start and complete any construction, and the date by which the system plans to complete a treatment operations plan. Dates do not need to be included if they are not applicable (for example, if no construction is planned).

While these plans can be amended as needed, the approved plans and the dates within are enforceable.

When is the Compliance Plan due?

The compliance plan must be submitted no later than 90 days after a system was notified of the laboratory result that caused a hexavalent chromium MCL exceedance (calculated as described in the above question: "According to the compliance schedule, when would PWS first be required to comply with (supply water with hexavalent chromium levels below) the MCL?") [22 CCR 64432(q)].

How is the Compliance Plan approved?

A compliance plan will be approved if it contains all applicable elements (detailed in the question above: "What is the Hexavalent Chromium Compliance Plan?") and is sufficient to demonstrate how the system will comply with the hexavalent chromium MCL.

What is the Hexavalent Chromium Operations Plan?

The Hexavalent Chromium Operations Plan is a treatment operations plan to help ensure that hexavalent chromium treatment is operating as intended. These plans are required to include the following elements [22 CCR 64432(r)]:

- A performance monitoring program that sets out how and when treatment will be monitored to ensure compliance with the MCL.
- 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.
- How and when each treatment unit process is operated.
- Procedures to determine chemical dose rates sufficient to ensure the treatment process is operating as designed.
- Information on reliability features incorporated into the treatment process to ensure operation as designed.



Frequently Asked Questions

 A treatment media inspection program sufficient to ensure the media is inspected at intervals and for conditions necessary to ensure compliance with the MCL.

If any of these elements do not apply to specific treatment, those elements do not need to be included in the operations plan (for example, a media inspection program is not needed if media is not used).

When is the Operations Plan due?

The operations plan must be submitted and approved by the date in the approved Compliance Plan and before treated water may be served to the public [22 CCR 64432(r) and 22 CCR 64556].

How is the Operations Plan approved?

An operations plan will be approved if it contains the applicable elements listed above and is sufficient to ensure that treated water reliably and continuously meets the hexavalent chromium MCL.

Are there any public notification requirements for exceeding the MCL, even during the initial compliance period?

Yes. Any system with a source that exceeds the hexavalent chromium MCL will be required to provide Tier 2 Public Notice, even for exceedances that occur before the applicable compliance date in Table 1 [22 CCR 64463.4(a)].

In addition, the notification requirements for Consumer Confidence Reports are below.

What are the Consumer Confidence Report requirements for the hexavalent chromium MCL?

As with other chemicals subject to an MCL, detections of hexavalent chromium and the associated typical origins language must be included in annual Consumer Confidence Reports, even if the detections occur before the applicable compliance date in Table 1 [22 CCR 64481(c)].

If a system exceeds the MCL before the applicable compliance date in **Table 1**, the following language must be included in the Consumer Confidence Report [22 CCR 64481(p)]:

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



Frequently Asked Questions

the MCL. Specifically, we are [INSERT ACTIONS TAKEN AND PLAN TO COMPLY WITH THE APPLICABLE COMPLIANCE DATE IN TABLE 64432-B].

If a system exceeds the MCL after the applicable date in Table 1, the above language would not be required. Instead, the Consumer Confidence Report shall clearly identify any data indicating MCL violations and "give information on each violation including the length of the violation, potential adverse health effects, and actions taken by the system to address the violation. To describe the potential health effects, the system shall use the relevant language pursuant to appendices 64465-A through H...." [22 CCR 64481(d)(3)].

Additional Resources

Public Health Goal:

https://oehha.ca.gov/water/chemicals/chromium-hexavalent (bit.ly/oehha-phg)

Rulemaking Status and Information:

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/SWRCBDDW-21-003_hexavalent_chromium.html (bit.ly/cr6-rulemaking)

DDW Announcements and Information on Hexavalent Chromium:

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Chromium6.html (bit.ly/cr6-regs)

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