BOARD OF DIRECTORS
EAST BAY MUNICIPAL UTILITY DISTRICT

375 - 11th Street, Oakland, CA 94607 Office of the Secretary: (510) 287-0440

Notice of Time and Location Change

PLANNING COMMITTEE MEETING
Tuesday, September 13, 2022
10:15 a.m.
Virtual

Notice is hereby given that the Tuesday, September 13, 2022 Planning Committee Meeting of the Board of Directors has been rescheduled from 9:15 a.m. to 10:15 a.m.

In accordance with Government Code section 54953(e), **this meeting will be conducted by webinar and teleconference only.** A physical location will not be provided for this meeting.

Dated: September 8, 2022

Rischa S. Cole

Rischa S. Cole
Secretary of the District

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EAST BAY MUNICIPAL UTILITY DISTRICT

375 - 11th Street, Oakland, CA 94607 Office of the Secretary: (510) 287-0440

AGENDA
Planning Committee
Tuesday, September 13, 2022
10:15 a.m.
Virtual

Location

In accordance with Government Code section 54953(e), **this meeting will be conducted by webinar and teleconference only**. A physical location will not be provided for this meeting.

***** Please see appendix for public participation instructions*****

Committee Members: Marguerite Young {Chair}, Lesa R. McIntosh and Frank Mellon

ROLL CALL:

PUBLIC COMMENT: The Board of Directors is limited by State law to providing a brief response, asking questions for clarification, or referring a matter to staff when responding to items that are not listed on the agenda.

DETERMINATION AND DISCUSSION:

1. Water Quality Program Semi-Annual Update (Briggs)

ADJOURNMENT:

Disability Notice

If you require a disability-related modification or accommodation to participate in an EBMUD public meeting please call the Office of the Secretary (510) 287-0404. We will make reasonable arrangements to ensure accessibility. Some special equipment arrangements may require 48 hours advance notice.

Document Availability

Materials related to an item on this agenda that have been submitted to the EBMUD Board of Directors within 72 hours prior to this meeting are available for public inspection in EBMUD's Office of the Secretary at 375 11th Street, Oakland, California, during normal business hours, and can be viewed on our website at www.ebmud.com.

EBMUD

APPENDIX

Planning Committee Meeting
Tuesday, September 13, 2022
10:15 a.m.

EBMUD public Board meetings will be conducted via Zoom.
Board committee meetings are recorded, and live-streamed on the District's website.

Please visit this page beforehand to familiarize yourself with Zoom.
https://support.zoom.us/hc/en-us/articles/201362193-Joining-a-Meeting

Online https://ebmud.zoom.us/j/94576194030?pwd=dWZlc3hNU3JNUVBQYmNKWjJSNVZQdz09
Webinar ID: 945 7619 4030
Passcode: 925293

By Phone
Telephone: 1 669 900 6833
Webinar ID: 945 7619 4030
Passcode: 925293
International numbers available: https://ebmud.zoom.us/u/kdmpbwwlg2

Providing public comment
The EBMUD Board of Directors is limited by State law to providing a brief response, asking questions for clarification, or referring a matter to staff when responding to items that are not listed on the agenda.

If you wish to provide public comment please:

- Use the raise hand feature in Zoom to indicate you wish to make a public comment https://support.zoom.us/hc/en-us/articles/205566129-Raising-your-hand-in-a-webinar
    - If you participate by phone, press *9 to raise your hand
- When prompted by the Secretary, please state your name, affiliation if applicable, and topic
- The Secretary will call each speaker in the order received
- Comments on **non-agenda items** will be heard at the beginning of the meeting
- Comments on **agenda items** will be heard when the item is up for consideration
- Each speaker is allotted 3 minutes to speak; the Board President has the discretion to amend this time based on the number of speakers
- The Secretary will keep track of time and inform each speaker when the allotted time has concluded

Submitting written comments or materials

- Email written comments or other materials for the Board of Directors to SecOffice@ebmud.com
- Please indicate the meeting date and agenda item number or non-agenda item in the subject of the email. Contact information is optional.
- **Please email by 4 p.m. the day prior to the scheduled regular meeting**; written comments and other materials submitted to the Board of Directors will be filed in the record.

To *observe* the Planning Committee Meeting,
please visit: https://www.ebmud.com/about-us/board-directors/board-meetings/

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: September 8, 2022

MEMO TO: Board of Directors

THROUGH: Clifford C. Chan, General Manager CCC

FROM: David A. Briggs, Director of Operations and Maintenance DAB

SUBJECT: Water Quality Program Semi-Annual Update

SUMMARY

The attached report provides an update on the District's water quality initiatives to ensure the delivery of high-quality water to customers. Water quality data for the first six months of calendar year 2022 is summarized in the report. A presentation on the Water Quality Program will be made at the September 13, 2022 Planning Committee meeting.

DISCUSSION

From January 1, 2022 through June 30, 2022, the District met all federal and state drinking water standards and 97 percent of the District's internal goals (123 of 127 goals were met). As in previous updates, levels of three types of disinfection byproducts (DBPs) were higher than District goals but continue to be stable. An additional goal related to distribution system water quality was not met (i.e., to maintain a high disinfection residual in distribution reservoirs). The District continues to monitor contaminants of emerging concern such as per- and polyfluoroalkyl substances and microplastics.

Historical and recent monitoring of the District's drinking water continue to indicate that lead concentrations are not a cause for concern. However, evolving federal and state lead regulations may place additional burdens on the District (e.g., tracking service line materials).

CCC:DAB:sd

Attachment

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ATTACHMENT

WATER QUALITY SEMI-ANNUAL REPORT

This report provides the status of District efforts to ensure the delivery of high-quality water to its customers for the first six months of calendar year 2022.

District Water Quality Goals

The District's internal water quality goals are substantially more stringent than federal and state water quality standards. The goals are adjusted when appropriate, depending on the latest technical information and regulatory changes. All internal goals were met except for the four described below.

Chlorinated disinfectant byproducts (DBPs): During the first half of 2022, the District exceeded two internal water quality goals related to chlorinated DBPs. Total trihalomethanes (TTHMs) and five haloacetic acids (HAA5) are regulated DBPs that form when chlorine reacts with natural organic matter in raw water. The District's current goals of 40 parts per billion (ppb) for TTHMs and 30 ppb for HAA5 are half of the regulatory standards. The District's goal was exceeded in 18 out of 32 individual TTHM samples and 6 out of 32 HAA5 samples in the first half of 2022. Achieving lower levels of these DBPs with current treatment technologies employed at the water treatment plants could compromise appropriate disinfection of the water. Future planned capital projects at the water treatment plants will enable better control of DBPs; however, the levels are not likely to be consistently below the District's internal goals.

Chloraminated DBPs: N-nitroso-dimethylamine (NDMA) is one of several nitrosamines that can form when chloramine reacts with organic precursor materials in water. NDMA is very slow forming and is generally detected in parts of the distribution system with very long residence time. In the first half of 2022, the District's water quality goal was exceeded in 4 of 10 individual NDMA samples. The District's goal is set at the Public Health Goal because there is currently no regulatory standard for NDMA. The regulatory future of NDMA remains uncertain. The U.S. Environmental Protection Agency (USEPA) does not plan to regulate nitrosamines in the near future but the State Water Resources Control Board (SWRCB) has indicated that it may regulate NDMA.

Chlorine Residuals: Maintaining a high disinfectant residual in the distribution system controls the growth of microorganisms and maintains the safety of drinking water. The District analyzes hundreds of chlorine residual samples each month throughout the service area, both from water mains and distribution storage reservoirs. The District's goal is to maintain at least 0.5 mg/L chlorine residual in 95 percent of samples each month. In the first half of 2022, this goal was met for samples taken from water mains, but not in 2 of 6 months for samples taken from distribution reservoirs. Distribution reservoir operation has been particularly challenging due to lower customer demand which increases water age. Further, drought operations have increased use of local east bay watershed and supplemental water supplies from the Sacramento River. These sources tend to have a faster chlorine decay rate than water from Pardee Reservoir. District staff continue to manually boost the chlorine residual in many distribution reservoirs.

Other Water Quality Issues

In addition to currently regulated parameters and internal goals, the District has several ongoing water quality initiatives intended to prepare for upcoming regulatory changes or potential threats to water quality.

Lead

The District continues to minimize customer exposure to lead in drinking water. Based on data from the regulatory monitoring, customer sampling voucher program, school sampling, and periodic studies, the corrosion control program effectively minimizes release of lead from any remaining leaded components.

The customer sampling program continues to be successful with many positive comments from customers concerned about lead. Since inception of the program in 2017, over 2,750 customers have taken advantage of the offer for a free lead test. Results continue to be good, with 90 percent of sample results less than 1 ppb. The District has streamlined the administrative aspects and transitioned from a contract-lab effort to a permanent, in-house program.

The District completed an inventory of District-owned service lines from the water main to the meter and developed a plan for removal of any remaining lead components. Several dozen lead service lines were found during the records review and immediately replaced with copper. There are no more “unknown” service lines, no known lead services, and approximately 800 galvanized steel lines which are suspected to include short connectors made of lead (also known as pigtails or goosenecks). The District developed a plan, which was approved by the SWRCB in 2020, to remove at least 125 galvanized steel service lines each year, beginning in 2021, along with their lead goosenecks, during pipeline replacement, repair of breaks and leaks, or if needed, through a dedicated plumbing crew. This replacement target has been met or exceeded each year, and complete replacement for all such lines must be completed by 2040.

Regulatory Updates

Federal regulations for lead were changed in 2021 bringing new requirements to the District. The service line inventory will need to be expanded to include the customer-side material between the meter and the home, and the data must be made available to the public. Staff does not expect to find any lead components on the customer side of the meters since none have ever been found in the service area. However, in the new federal regulation a new type of service line category was created: Galvanized Requiring Replacement (GRR). A GRR lateral is a customer-side galvanized line that was formerly connected to a District-side lead service line. The new regulations require the District to identify all GRRs regardless of how long ago the District lead service line was removed. There were approximately 7,000 lead service lines in the District service area; the last of which were removed in the 1990s. To comply with the new rules, identification of the customer-side service line materials for these former lead service lines must be completed by October 2024. A contractor will be needed to assist with this work, and customers with confirmed GRRs must be notified by November 2024. No other physical action is necessary (e.g. removals) on service laterals under the present federal regulations. Other

portions of the new regulation change the criteria for how compliance samples are collected and how the District tracks materials and provides notification to customers.

State regulations are pending and may or may not create additional requirements.

The SWRCB and USEPA continue efforts to regulate perfluoroalkyl substances and polyfluoroalkyl substances (collectively known as PFAS). California has drinking water Notification Levels and Response Levels for three PFAS: Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and perfluorobutane sulfonic acid (PFBS), and is working on additional drinking water regulations. USEPA intends to develop enforceable limits for PFOS and PFOA and has issued health advisories for four PFAS: PFOA, PFOS, PFBS, and hexafluoropropylene oxide (HFPO) dimer acid and its ammonium salt (known collectively as "GenX chemicals"). In chemical and product manufacturing, GenX chemicals are considered a replacement for PFOA, and PFBS is considered a replacement for PFOS. The USEPA health advisories for PFOA, PFOS, GenX chemicals and PFBS are 0.004 parts per trillion (ppt), 0.02 ppt, 10 ppt, and 2,000 ppt, respectively. Recent regulatory actions have banned the use of PFAS in paper food packaging and other consumer products in California and banned the uncontrolled release of PFAS-containing firefighting foams from Department of Defense facilities. EPA has proposed designating PFOA and PFOS as hazardous substances which would increase transparency around releases of these chemicals and make polluters accountable for cleanup costs. While regulatory actions have focused on source water protection, no actions are expected related to water treatment.

Although not required, the District monitored for PFAS in the influent and effluent of each in-service water treatment plant during 2020-2021. Most results were "non-detects," however there were some low-level detections of some compounds. All results were below the Notification Levels but some were above the USEPA health advisory levels. The District will conduct additional PFAS monitoring next year under the federal Unregulated Contaminant Monitoring Rule 5 (2023-2025).

Microplastics

The SWRCB continues to develop regulations for microplastics in drinking water as required by Senate Bill 1422. Two analytical methods and sampling protocols have been developed, and several commercial laboratories are developing capacity for this work. The SWRCB has issued recommendations for analytical procedures and sampling protocols. The SWRCB is planning to start with a pilot program including about 30 water systems, followed by state-wide implementation once the methodologies are established and vetted. EBMUD is one of the utilities to be included in the pilot testing. All drinking water utilities, beginning with surface water sources, will eventually be required to conduct four consecutive years of microplastics monitoring and share results in their Consumer Confidence Reports.

Electra Wildfire

The Electra Fire was ignited on July 4, 2022 in a recreational area next to the Mokelumne River about three miles east of Pardee Reservoir. Fortunately, the part of the watershed that burned was

the same as the 2015 Butte Fire, and the resulting wildfire burned at a relatively low intensity due to lack of available fuel. The fire was contained in about one week as wind remained low, humidity remained high, and CalFire had ample resources due to no higher priority wildfire at the time. Impacts to water quality are expected to be minimal and will not be observed until the rainy season when runoff occurs. The District has developed a monitoring and mitigation plan and will collect and analyze water samples in the watershed to characterize the fire's impact.

The District is sponsoring a project through the Water Research Foundation with several other water agencies (Contra Costa Water District, Los Angeles Department of Water and Power, and San Jose Water Company) to assess and respond to contamination of water distribution systems after wildfire. The research team has recreated in the laboratory many of the heat-induced contaminants that have been detected in drinking water after wildfires such as the Camp Fire in Paradise and the CZU Lightning Complex Fire in Santa Cruz County. In addition to documenting the sources of these contaminants, the project will include appropriate response measures that can be taken by water utilities impacted by fire.

EBMUD Water Quality Goals - January 1, 2022 through June 30, 2022

Parameter	Units	MCL	PHG	DLR	SMCL	NL	other	Basis	Goal	Status*
USEPA/State Water Quality Regulations										
Primary (Health Standards)										
Inorganic Chemicals										
Aluminum	ug/L	1000	600	50	200			½SMCL	100	Met
Antimony	ug/L	6	1	6				PHG	1	Met
Arsenic	ug/L	10	0.004	2				PHG	0.004	Met
Asbestos	MFL	7	7	0.2				½MCL	3.5	Met
Barium	ug/L	1000	2000	100				½MCL	500	Met
Beryllium	ug/L	4	1	1				PHG	1	Met
Cadmium	ug/L	5	0.04	1				PHG	0.04	Met
Chromium (total)	ug/L	50		10				½MCL	25	Met
Cyanide	mg/L	0.15	0.15	0.1				½MCL	0.075	Met
Fluoride (source water)	mg/L	2	1	0.1				PHG	1	Met
Hexavalent chromium	ug/L		0.02					PHG	0.02	Met
Mercury	ug/L	2	1.2	1				½MCL	1	Met
Nickel	ug/L	100	12	10				PHG	12	Met
Nitrate + Nitrite Total (as N)	mg/L	10	10					½MCL	5	Met
Nitrate as N [x4.5 for NO3]	mg/L	10	10	0.4				½MCL	5	Met
Nitrite (as N)	mg/L	1	1	0.4				½MCL	0.5	Met
Perchlorate	ug/L	6	1	2				PHG	1	Met
Selenium	ug/L	50	30	5				½MCL	25	Met
Thallium	ug/L	2	0.1	1				PHG	0.1	Met
Organic Chemicals										
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane (1,1,1-TCA)	ug/L	200	1000	0.5				½MCL	100	Met
1,1,2,2-Tetrachloroethane	ug/L	1	0.1	0.5				PHG	0.1	Met
1,1,2-Trichloroethane (1,1,2-TCA)	ug/L	5	0.3	0.5				PHG	0.3	Met
1,1-Dichloroethane (1,1-DCA)	ug/L	5	3	0.5				½MCL	2.5	Met
1,1-Dichloroethylene (1,1-DCE)	ug/L	6	10	0.5				½MCL	3	Met
1,2,4-Trichlorobenzene	ug/L	5	5	0.5				½MCL	2.5	Met
1,2-Dichlorobenzene (o-DCB)	ug/L	600	600	0.5				½MCL	300	Met
1,2-Dichloroethane (1,2-DCA)	ug/L	0.5	0.4	0.5				½MCL	0.25	Met
1,2-Dichloropropane	ug/L	5	0.5	0.5				PHG	0.5	Met

Note: District to meet all applicable regulatory requirements at all times.

Compounds highlighted in blue appear more than once in this table.

**Status is either "Met or "Not Met". If goal was not met, number shown is the percent of samples not meeting the goal.*

Parameter	Units	MCL	PHG	DLR	SMCL	NL	other	Basis	Goal	Status*
1,3-Dichloropropene (Total)	ug/L	0.5	0.2	0.5				PHG	0.2	Met
1,4-Dichlorobenzene (p-DCB)	ug/L	5	6	0.5				½MCL	2.5	Met
Benzene	ug/L	1	0.15	0.5				PHG	0.15	Met
Carbon Tetrachloride	ug/L	0.5	0.1	0.5				PHG	0.1	Met
Dichloromethane (Methylene Chloride)	ug/L	5	4	0.5				½MCL	2.5	Met
Ethylbenzene	ug/L	300	300	0.5				½MCL	150	Met
Freon 113 (1,1,2 trichloro 1,2,2 trifluoroethane)	ug/L	1200	4000	10				½MCL	600	Met
Methyl-tert-butyl ether (MTBE)	ug/L	13	13	3	5			½SMCL	2.5	Met
Monochlorobenzene (Chlorobenzene)	ug/L	70	70	0.5				½MCL	35	Met
Styrene	ug/L	100	0.5	0.5				PHG	0.5	Met
Tetrachloroethylene	ug/L	5	0.06	0.5				PHG	0.06	Met
Toluene	ug/L	150	150	0.5				½MCL	75	Met
Trichloroethylene (TCE)	ug/L	5	1.7	0.5				PHG	1.7	Met
Trichlorofluoromethane (Freon 11)	ug/L	150	1300	5				½MCL	75	Met
Vinyl Chloride (VC)	ug/L	0.5	0.05	0.5				PHG	0.05	Met
Xylenes (Total)	ug/L	1750	1800	0.5				½MCL	875	Met
cis-1,2-Dichlorethylene (c-1,2-DCE)	ug/L	6	13	0.5				½MCL	3	Met
trans-1,2-Dichloroethylene (t-1,2-DCE)	ug/L	10	50	0.5				½MCL	5	Met
Synthetic Organic Compounds (SOCs)										
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	0.0017	0.01				PHG	0.0017	Met
2,3,7,8-TCDD (Dioxin)	pg/L	30	0.05	5				PHG	0.05	Met
2,4,5-TP (Silvex)	ug/L	50	3	1				PHG	3	Met
2,4-D	ug/L	70	20	10				PHG	20	Met
Alachlor (Alanex)	ug/L	2	4	1				½MCL	1	Met
Atrazine (Aatrex)	ug/L	1	0.15	0.5				PHG	0.15	Met
Bentazon (Basagran)	ug/L	18	200	2				½MCL	9	Met
Benzo(a)pyrene	ug/L	0.2	0.007	0.1				PHG	0.007	Met
Bis(2-ethylhexyl)phthalate (DEHP)	ug/L	4	12	3				½MCL	2	Met
Carbofuran	ug/L	18	0.7	5				PHG	0.7	Met
Chlordane	ug/L	0.1	0.03	0.1				PHG	0.03	Met
Dalapon	ug/L	200	790	10				½MCL	100	Met
Di(2-ethylhexyl)adipate	ug/L	400	200	5				½MCL	200	Met
Dinoseb (DNBP)	ug/L	7	14	2				½MCL	3.5	Met

Note: District to meet all applicable regulatory requirements at all times.
Compounds highlighted in blue appear more than once in this table.
**Status is either "Met or "Not Met". If goal was not met, number shown is the percent of samples not meeting the goal.*

Parameter	Units	MCL	PHG	DLR	SMCL	NL	other	Basis	Goal	Status*
Diquat	ug/L	20	6	4				PHG	6	Met
Endothall	ug/L	100	94	45				½MCL	50	Met
Endrin	ug/L	2	0.3	0.1				PHG	0.3	Met
Ethylene dibromide (EDB)	ug/L	0.05	0.01	0.02				PHG	0.01	Met
Glyphosate	ug/L	700	900	25				½MCL	350	Met
Heptachlor	ug/L	0.01	0.008	0.01				½MCL	0.005	Met
Heptachlor Epoxide	ug/L	0.01	0.006	0.01				½MCL	0.005	Met
Hexachlorobenzene	ug/L	1	0.03	0.5				PHG	0.03	Met
Hexachlorocyclopentadiene	ug/L	50	2	1				PHG	2	Met
Lindane (Gamma BHC)	ug/L	0.2	0.032	0.2				PHG	0.032	Met
Methoxychlor	ug/L	30	0.09	10				PHG	0.09	Met
Molinate	ug/L	20	1	2				PHG	1	Met
Oxamyl (Vydate)	ug/L	50	26	20				½MCL	25	Met
PCB's	ug/L	0.5	0.09	0.5				PHG	0.09	Met
Pentachlorophenol (PCP)	ug/L	1	0.3	0.2				PHG	0.3	Met
Picloram	ug/L	500	166	1				PHG	166	Met
Simazine	ug/L	4	4	1				½MCL	2	Met
Thiobencarb	ug/L	70	42	1	1			½SMCL	0.5	Met
Toxaphene	ug/L	3	0.03	1				PHG	0.03	Met
1,2,3-Trichloropropane	ug/L	0.005	0.0007	0.005				PHG	0.0007	Met
Disinfection By-Products (DBPs)										
Bromate	ug/L	10	0.1	1				½MCL	5	Met
Chlorite	ug/L	1000	50	20				PHG	50	Met
Haloacetic Acids (HAA5)	ug/L	60						½MCL	30	Not Met
Total Trihalomethanes (TTHM)	ug/L	80						½MCL	40	Not Met
Radionuclides										
Alpha	pCi/L	15		3				½MCL	7.5	Met
Beta	pCi/L			4			50	Other [1]	25	Met
Radium 226 + 228	pCi/L	5						½MCL	2.5	Met
Strontium-90	pCi/L	8	0.35	2				PHG	0.35	Met
Tritium	pCi/L	20000	400	1000				PHG	400	Met
Uranium	pCi/L	20	0.43	1				PHG	0.43	Met
Microbiological										
%Total Coliforms Positive/Mo.	Organisms/100 ml	5%						Other [2]	0.5%	Met
TCR Tap Total Chlorine Residual	mg-Cl_2/L							Meets Partnership for Safe Water	≥ 0.5 mg-Cl_2/L in ≥95% of routine samples per month	Met

Note: District to meet all applicable regulatory requirements at all times.

Compounds highlighted in blue appear more than once in this table.

**Status is either "Met or "Not Met". If goal was not met, number shown is the percent of samples not meeting the goal.*

Parameter	Units	MCL	PHG	DLR	SMCL	NL	other	Basis	Goal	Status*
Reservoir Total Chlorine Resdiual	mg-Cl_2/L							Exceeds Partnership for Safe Water [3]	≥ 0.5 mg-Cl_2/L in ≥95% of reservoirs per month	Not Met
Treatment Techniques										
Individual Filter Effluent (IFE) Turbidity	NTU							Exceeds Partnership for Safe Water [4]	<0.10 NTU more than 99.5% of time per filter	Met
Combined Filter Effluent (CFE) Turbidity	NTU							Exceeds Partnership for Safe Water [4]	< 0.10 NTU more than 99.9% of the time.	Met
Distribution System Fluoride	mg/L							Other [5]	0.6-1.2	Met
CT Ratio							1	Other [6]	>1.0	Met
Lead 90th percentile	ug/L		0.2	5			15	½ AL[7]	7.5	Met
Copper 90th percentile	ug/L		300	50			1300	½ AL[8]	650	Met
Langelier Saturation Index (LSI)								Corrosion Control	-0.5 to 0.5 in 95% WTP effluent samples (annually)	Met
Acrylamide							0.05% mono-mer by wt. dose not to exceed 1 mg/L	Other [9]	0.05% monomer by wt. dose not to exceed 1 mg/L	Met
Secondary (Aesthetic) Standards										
Aluminum	ug/L	1000	600	50	200			½SMCL	100	Met
Chloride	mg/L				250			½SMCL	125	Met
Color	color unit				15			½SMCL	7.5	Met
Copper	ug/L		300	50	1000			PHG	300	Met
Foaming agents (MBAS)	ug/L				500			½SMCL	250	Met
Iron	ug/L				300		100	Other [10]	100	Met
Manganese	ug/L				50	500	15	Other [10]	15	Met
Methyl tertiary butyl ether (MTBE)	ug/L	13	13	3	5			½SMCL	2.5	Met
Odor threshold	TON				3			SMCL	3	Met
Silver	ug/L				100			½SMCL	50	Met
Specific Conductance	uS/cm				900			½SMCL	450	Met
Sulfate	mg/L				250			½SMCL	125	Met
Thiobencarb	ug/L	70	42	1	1			½SMCL	0.5	Met

Note: District to meet all applicable regulatory requirements at all times.
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**Status is either "Met or "Not Met". If goal was not met, number shown is the percent of samples not meeting the goal.*

Total Dissolved Solids	mg/L				500			½SMCL	250	Met
Turbidity (distribution)	NTU				5			½SMCL	2.5	Met
Zinc	ug/L				5000			½SMCL	2500	Met
Customer Expectations										
District-caused complaints	Com-plaints/ month						30	Other [11]	30	Met
Emerging Contaminants										
Inorganic Chemicals										
Boron	ug/L			100		1000		½NL	500	Met
Chlorate	ug/L					800		½NL	400	Met
Organic Chemicals										
1,2,4-Trimethylbenzene	ug/L					330		½NL	165	Met
1,3,5-Trimethylbenzene	ug/L					330		½NL	165	Met
Cylindrospermopsin	ug/L						0.7	HA [12]	0.7	Met
Microcyctins	ug/L						0.3	HA [12]	0.3	Met
N-Nitrosodi-methylamine [NDMA]	ng/L		3			10		PHG	3	Not Met
N-Nitrosodiethylamine [NDEA]	ng/L					10		½NL	5	Met
Naphthalene	ug/L					17		½NL	8.5	Met

[1] ½ screening level
[2] 1/10th 5% MCL
[3] ≥ 0.5 mg-Cl2/L in ≥95% of routine monthly samples
[4] <0.10 NTU 95% of the time
[5] Optimal Fluoride Dose (0.7 mg/L) per 2015 US Public Health Service recommendation
[6] CT ratio of 1 is the minimum for compliance; goal is be greater than or equal to 1 at all times.
[7] ½ Action Level
[8] ½ Action Level; compliance based on in-home samples.
[9] USEPA Treatment Technique
[10] Based on operational experience
[11] Based on historical data
[12] USEPA Health Advisory Level

Note: District to meet all applicable regulatory requirements at all times.
Compounds highlighted in blue appear more than once in this table.
**Status is either "Met or "Not Met". If goal was not met, number shown is the percent of samples not meeting the goal.*