Three Valleys Municipal Water District 2020 WATER QUALITY REPORT TO TVMWD MEMBER AGENCIES

WEYMOUTH refers to the Metropolitan Water District's Weymouth Water Treatment Plant in the city of La Verne.

MIRAMAR refers to the Three Valleys Municipal Water District's Miramar Water Treatment Plant in the city of Claremont.

	WEYMOUTH MIRAMAR MIRAMAR EFFLUENT PLANT GROUNDWATER			REGUL	ATORY STAI	NDARDS		
		EFFLUENT Range/Average	PLAN I Range/Average	GROUNDWATER Range/Average	State (Federal) MCL	PHG	State DLR (RL)	Major Sources in Drinking Water
SOURCE WATER 6 of State Project Water 6 of Groundwater		0-90/10	90.85	9.15	NA	NA	NA	
PRIMARY STANDARDS - Man	datory Health-	Related Standards						
CLARITY Combined Filter Effluent (CFE) Turbidity (a)	NTU % ≤ 0.3	0.04 (highest) 100%	0.073 (highest) 100%	0.790 (highest) 100%	TT	NA	NA	Soil runoff
MICROBIOLOGICAL (b)		10070	100%	10077				
otal Coliform Bacteria (c)	% Positive	0-0.1/0% distribution system-wide	0% distribution system-wide	0%	5.0	MCLG = 0	NA	Naturally present in the environment
Escherichia coli (E. coli) (c,d)	Number	0% distribution system-wide	0% distribution system-wide	0%	1	MCLG = 0	NA	Human and animal fecal waste
leterotrophic Plate Count (e)	CFU/ mL	ND	ND	ND	TT	NA	(1)	Naturally present in the environment
Cryptosporidium	Oocyst 200 L	ND	ND	ND	TT	MCLG = 0	(1)	Human and animal fecal waste
Giardia	Cysts 200 L	ND	ND	ND	TT	MCLG = 0	(1)	Human and animal fecal waste
ORGANIC CHEMICALS								<u> </u>
Synthetic Organic Compounds (f)		ND	ND	ND	5	0.7		
,2,3-Trichloropropange (1,2,3- CP)	ppt					0.7	5	Discharge from industrial and agrichemical factories; byproducts of producing other compounds and pesticides, leaching from hazardous waste site
,4,5-TP (Silvex)	ppb	ND	ND	ND	50	3	1	Residue of banned herbicide
,4-D	ppb	ND	ND	ND	70	20	10	Runoff from herbicide used on row crops, range land, lawns and aquatic weeds
crylamide	ppm	NA	NR	NR	TT	MCLG = 0	NA	Water treatment chemical impurities
lachlor	ppb	ND	ND	ND	2	4	1	Runoff from herbicide used on row crops
trazine	ppb	ND	ND	ND	1	0.15	0.5	Runoff from herbicide used on row crops and along railroad and highways rights-of-way
entazon	ppb	ND	ND	ND	18	200	2	Runoff/leaching from herbicide used on beans, peppers, corn, peanuts, rice, and ornamental grasses
enzo(a)pyrene	ppt	ND	ND	ND	200	7	100	Leaching from linings of water storage tanks and distribution mains
arbofuran	ppb	ND	ND	ND	18	0.7	5	Leaching of soil furnigant used on rice, alfalfa and grapes vineyards
hlordane	ppt	ND	ND	ND	100	30	100	Residue of banned insecticide
alapon	ppb	ND	ND	ND	200	790	10	Runoff from herbicide used on rights of way, crops and landscape maintenance
i(2-ethylhexyl) adipate	ppb	ND	ND	ND	400	200	5	Discharge from chemical factories
i(2-ethylhexyl) phthalate	ppb	ND	ND	ND	4	12	3	Discharge from rubber and chemical factories; inert ingredient in pesticides
ibromochloropropane (DBCP)	ppt	ND	ND	0.029	200	1.7	10	Banned nematicide that may still be present in soils due to runoff/leaching

Dioxin (2,3,7,8-TCDD)	ppq	ND	ND	ND	30	0.05	5	Waste incineration emissions, chemical factory discharge
Diquat	ppb	ND	ND	ND	20	6	4	Runoff from herbicide used for terrestrial and aquatic weeds
Endothall	ppb	ND	ND	ND	100	94	45	Runoff from herbicide used for terrestrial and aquatic weeds
Endrin	ppb	ND	ND	ND	2	0.3	0.1	Residue of banned insecticide and rodenticide
Epichlorohydrin	ppm	NA	NR	NR	TŢ	MCLG = 0	NA	Water treatment chemical impurities
Ethylene dibromide (EDB)	ppt	ND	NE	ND	50	10	20	Discharge from petroleum refineries; underground gas tank leaks, banned nematicide that maybe still present in soils due to runoff and leaching
Glyphosate	ppb	ND	ND	ND	700	900	25	Runoff from herbicide use
Heptachlor	ppt	ND	ND	ND	10	8	10	Residue of banned insecticide
Heptachlor Epoxide	ppt	ND	ND	ND	10	6	10	Breakdown product of heptachlor
Hexachlorobenzene	ppb	ND	ND	ND	1	0.03	0.5	Discharge from metal refineries & agrichemical factories; wastewater chlorination reaction by-product
Hexachlorocyclopentadiene	ppb	ND	ND	ND	50	2	1	Discharge from chemical factories
Lindane	ppt	ND	ND	ND	200	32	200	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	ppb	ND	ND	ND	30	0.09	10	Runoff/leaching from insecticide uses
Molinate (Ordram)	ppb	ND	ND	ND	20	1	2	Runoff/leaching from herbicide used on rice
Oxamyl (Vydate)	ppb	ND	ND	ND	50	26	20	Runoff/leaching from insecticide uses
Pentachlorophenol (PCP)	ppb	ND	ND	ND	1	0.3	0.2	Discharge from wood preserving factories, other insecticidal and herbicidal uses
Picloram	ppb	ND	ND	ND	500	166	1	Herbicide runoff
Polychlorinated Biphenyls (PCBs)	ppt	ND	ND	ND	500	90	500	Runoff from landfills; discharge of waste chemicals
Simazine	ppb	ND	ND	ND	4	4	1	Herbicide runoff
Thiobencarb	ppb	ND	ND	ND	70	42	1	Runoff/leaching from herbicide used on rice
Toxaphene	ppb	ND	ND	ND	3	0.03	1	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Chemicals		i i	di di			1		i i i i i i i i i i i i i i i i i i i
1,1,1-Trichloroethane	ppb	ND	ND	ND	200	1000	0.5	Discharge from metal degreasing sites; manufacture of food wrappings
1,1,2,2-Tetrachloroethane	ppb	ND	ND	ND	1	0.1	0.5	Discharge from industrial, agricultural chemical factories; solvent used in production of TCE, pesticides, varnish and lacquers
1,1,2-Trichloro-1,2,2-trifluoroethane	ppm	ND	ND	ND	1.2	4	0.01	Discharge from metal degreasing sites and other factories; dry-cleaning solvent; refrigerant
(Freon 113) 1,1,2-Trichloroethane	ppb	ND	ND	ND	5	0.3	0.5	Discharge from industrial chemical factories
1,1-Dichloroethane	ppb	ND	ND	ND	5	3	0.5	Extraction & degreasing solvent; furnigant
1,1-Dichloroethylene	ppb	ND	ND	ND	6	10	0.5	Discharge from industrial chemical factories
1,2,4-Trichlorobenzene	ppb	ND	ND	ND	5	5	0.5	Discharge from textile-finishing factories
1,2-Dichlorobenzene	ppb	ND	ND	ND	600	600	0.5	Discharge from industrial chemical factories
1,2-Dichloroethane	ppt	ND	ND	ND	500	400	500	Discharge from industrial chemical factories
1,2-Dichloropropane	ppb	ND	ND	ND	5	0.5	0.5	Discharge from industrial chemical factories; primary component of some furnigants
1,3-Dichloropropene	ppt	ND	ND	ND	500	200	500	Runoff/leaching from nematicide used on croplands
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1,4-Dichlorobenzene	ppb	ND	ND	ND	5	6	0.5	Discharge from industrial chemical factories
Benzene	ppb	ND	ND	ND	1	0.15	0.5	Plastic factory discharge; gas tanks and landfill leaching
Carbon Tetrachloride	ppt	ND	ND	ND	500	100	500	Discharge from chemical plants and other industrial activities
cis-1,2-Dichloroethylene	ppb	ND	ND	ND	6	100	0.5	Industrial chemical factory discharge; biodegradation byproduct of TCE/PCE groundwater contamination
Dichloromethane (methylene chloride)	ppb	ND	ND	ND	5	4	0.5	Discharge from pharmaceutical and chemical factories
Ethylbenzene	ppb	ND	ND	ND	300	300	0.5	Discharge from petroleum refineries; industrial chemical factories
Methyl-tert-butyl-ether (MTBE)	ppb	ND	ND	ND	13	13	3	Gasoline discharge from watercraft engines
Monochlorobenzene	ppb	ND	ND	ND	70	70	0.5	Discharge from industrial, agricultural chemical factories and dry-cleaning facilities
Styrene	ppb	ND	ND	ND	100	0.5	0.5	Rubber and plastics factories discharge, landfill leaching
Tetrachloroethylene (PCE)	ppb	ND	ND	ND	5	0.06	0.5	Discharge from factories, dry cleaners and auto shops
Toluene	ppb	ND	ND	ND	150	150	0.5	Discharge from petroleum and chemical refineries
trans-1,2-Dichloroethylene	ppb	ND	ND	ND	10	60	0.5	Industrial chemical factory discharge; biodegradation byproduct of TCE/PCE groundwater contamination
Trichloroethylene (TCE)	ppb	ND	ND	ND	5	1.7	0.5	Discharge from metal degreasing sites and other factories
Trichlorofluoromethane (Freon 11)	ppb	ND	ND	ND	150	1300	5	Discharge from industrial factories; degreasing solvent; propellant
Vinyl chloride	ppt	ND	ND	ND	500	50	500	Leaching from PVC piping; plastics factory discharge; biodegradation byproduct of TCE/PCE biodegradation
Xylenes	ppm	ND	ND	ND	1.75	1.8	0.0005	Discharge from petroleum and chemical refineries; fuel solvent
INORGANIC CHEMICALS	·			1/0	4000	T 000 I		
Aluminum (g)	ppb	80-210/149	ND	ND	1000	600	50	Residue from water treatment process; erosion of natural deposits
Antimony	ppb	ND	ND	ND	6	1	6	Petroleum refinery discharges, fire retardants, solder, electronics
Arsenic	ppb	ND	ND	ND	10	0.004	2	Erosion of natural deposits; glass & electronics production wastes
Asbestos (h)	MFL	ND	ND	ND	7	7	0.2	Internal corrosion of asbestos cement pipes; erosion of natural deposits
Barium	ppb	105	ND	ND	1000	2000	100	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Beryllium	ppb	ND	ND	ND	4	1	1	Discharge from metal refineries; aerospace and defense industries
Cadmium	ppb	ND	ND	ND	5	0.04	1	Internal corrosion of galvanized pipes; discharge from electroplating industrial factories and metal refineries, runoff from waste batteries and paints, natural deposits erosion
Chromium	ppb	ND	ND	ND	50	MCLG = 100	10	Discharge from steel and pulp mills; erosion of natural deposits
Copper (i)	ppm	ND	ND	ND	AL=1.3	0.3	0.05	Internal corrosion of household pipes; erosion of natural deposits
Cyanide	ppb	ND	ND	ND	150	150	100	Discharge from steel/metal, plastic and fertilizer factories
Fluoride (j)	ppm	0.6-0.8/0.7	ND-0.11/0.055 (naturally occurring)	0.38-0.56/0.47 (naturally occurring)	2	1	0.1	Erosion of natural deposits; water additive that promotes strong teeth
Lead	ppb	ND	ND	ND	AL=15	0.2	5	Internal corrosion of household pipes; erosion of natural deposits
Mercury	ppb	ND	ND	ND	2	1.2	1	Erosion of natural deposits; discharge from factories; runoff from landfills
Nickel	ppb	ND	ND	ND	100	12	10	Erosion of natural deposits; discharge from metal factories
Nitrate (as Nitrogen)	ppm	ND	ND-0.57/0.285	2.2-2.8/2.57	10	10	0.4	
(20	FF							Runoff & leaching from fertilizer use; septic tank and sewage; erosion of natural deposits

Nitrite (as Nitrogen)	ppm	ND	ND	ND	1	1	0.4	Runoff & leaching from fertilizer use; septic tank and sewage; erosion of natural deposits
Perchlorate	ppb	ND	ND	ND	6	1	4	Industrial waste discharge
Selenium	ppb	ND	ND	ND	50	30	5	Refineries, mines and chemical waste discharge; runoff from livestock lots
Thallium	ppb	ND	ND	ND	2	0.1	1	Leaching from ore-processing sites; factory discharge
RADIOLOGICALS			1					
Gross Alpha Particle Activity	pCi/L	ND	ND (2018) due 2023	ND (2016) due 2028	15	(0)	3	Erosion of natural deposits
Gross Beta Particle Activity	pCi/L	ND-6/4	2.49	NR	50	(0)	4	Decay of natural and man-made deposits
Combined Radium Radium 226 + 228	pCi/L	ND-6/4	ND (2015) due 2022	0.148 (2016) due 2028	5	(0)	NA	Erosion of natural deposits
Radium 226	pCi/L	ND-6/4	ND (2015) due 2022	0.147 (2016) due 2028	NA	0.05	1	Erosion of natural deposits
Radium 228	pCi/L	ND-2/ND	ND (2015) due 2022	0.001 (2016) due 2028	NA	0.019	1	Erosion of natural deposits
Strontium-90	pCi/L	ND	0.160	NR	8	0.35	2	Decay of natural and man-made deposits
Tritium	pCi/L	ND	424	NR	20,000	400	1,000	Decay of natural and man-made deposits
Uranium	pCi/L	1-3/2	ND (2018) DUE 2023	2.4 (2017) due 2021	20	0.43	1	Erosion of natural deposits
DISINFECTION BY-PRODUCTS, DIS	INFECTANT R	ESIDUALS AND DISI			(k)			4
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Total Trihalomethanes (TTHM)	ppb	10-31/32 Distribution system-wide	39.70-58.00/48.16 Distribution system-wide	NR	80	NA	1	By-product of drinking water disinfection
Sum of Five Haloacetic Acids	ppb	1.10-014/9.1	7.56-22.60/13.80	NR	60	NA	1	By-product of drinking water disinfection
(HAA5) Total Chlorine Residual	ppm	Distribution system-wide 2.40	Distribution system-wide 2.73	NR	[4.0]	[4.0]	NA	Drinking water disinfectant added for treatment
		highest RAA Distribution system-wide	highest RAA Distribution system-wide					Difficing water distributed for freathers
Bromate (I)	ppb	2.00	NA NA	NA	10	0.1	1.0	Byproduct of drinking water ozonation
Total Organic Carbon (TOC)	ppm	highest RAA 2.1-2.6/2.4	1.8-2.6/2.1	ND	TT	NA	0.30	Various natural and man-made sources; TOC as a medium for the formation of disinfection byproducts
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SECONDARY STANDARDS - Ae:	sthetic Stand					· · · · · · · · · · · · · · · · · · ·		
Aluminum (g)		149 Highest RAA	ND	ND	200	600	50	Residue from water treatment processes; natural deposits erosion
Chloride	ppm	93	62	5.8-7.1/6.45	500	NA	(2)	Runoff/leaching from natural deposits; seawater influence
Color	units	1	ND-5.0/2.5	ND	15	NA	(1)	Naturally occurring organic materials
Copper (i)	ppm	ND	ND	ND	1	0.3	0.05	Internal corrosion of household pipes; natural deposits erosion; wood preservatives leaching
Foaming Agents-Methylene Blue Act	ppb	ND	ND	ND	500	NA	(50)	Municipal and industrial waste discharges
Iron	ppb	ND	ND	ND	300	NA	100	Leaching from natural deposits; industrial wastes
Manganese	ppb	ND	ND	ND	50	NL=500	20	Leaching from natural deposits
МТВЕ	ppb	ND	ND	ND	5	13	3	Gasoline discharges from watercraft engines
Odor Threshold	TON	2	1-2/1.5	1	3	NA	1	Naturally occurring organic materials
Silver	ppb	ND	ND	ND	100	NA	10	Industrial discharges
Specific Conductance	μS/cm	963-968/966	420-440/430	390-450/416.67	1,600	NA	NA	Substances that form ions when in water; seawater influence
					5			

Sulfate	ppm	211-215/213	32-41/36.5	21-28/24.5	500	NA	0.5	Runoff/leaching from natural deposits; industrial wastes
Thiobencarb	ppb	ND	ND	ND	1	42	1	Runoff/leaching from rice herbicide
Total Dissolved Solids (TDS) (m)	ppm	587-593/590	250	240-260/250	1,000	NA	(2)	Runoff/leaching from natural deposits; seawater influence
Turbidity (a)	NTU	ND	ND	ND	5	NA	0.1	Soil runoff
Zinc	ppm	ND	ND	ND	5.0	NA	0.05	Runoff/leaching from natural deposits; industrial wastes
OTHER PARAMETERS								
General Minerals								
Alkalinity (as CaCO3)	ppm	118-119/118	68-88/80.6	160	NA	NA	(1)	Measure of water quality
Calcium	ppm	65	21-23/22	55-57/56	NA	NA	(0.1)	Measure of water quality
Hardness (as CaCO ₃)	ppm	256-268/262	97	170-180/175	NA	NA	(1)	Measure of water quality
Magnesium	ppm	26	7.7-11/9.35	8.4-8.7/8.55	NA	NA	(0.01)	Measure of water quality
Potassium	ppm	4.5-4.6/4.6	2.0-2.4/2.2	1.4-1.7/1.55	NA	NA	(0.2)	Measure of water quality
Sodium	ppm	93-97/95	48-50/49	13-23/18	NA	NA	(1)	Measure of water quality
Unregulated Contaminants								And the second s
Boron	ppb	130	150-220/180	ND-160/80	NL=1,000	NA	100	Runoff/leaching from natural deposits; industrial wastes
Chlorate	ppb	76	NR	NR	NL=800	NA	20	By-product of drinking water chlorination; industrial processes
Chromium VI	ppb	ND	ND	ND	NA.	0.02	1	Runoff/leaching from natural deposits; discharge from industrial waste factories
Vanadium	ppb	ND	ND	NR	NL=50	NA	3	Naturally occurring; industrial waste discharge
tert-Butyl alcohol (TBA)	ppb	NS	ND	NR	NL=12	NA	2	MTBE breakdown product; used as gasoline additive
Dichlorodifluoromethane (Freon 12)	ppb	ND	NR	NR	NL=1,000	NA	0.5	Industrial waste discharge
N-Nitrosodimethylamine (NDMA)	ppt	ND	ND	NR	NL=10	3	(2)	By-product of drinking water chlorination; industrial processes
(NDMA)								
Miscellaneous (n)								
Calcium Carbonate Precipitation Potential (CCPP) (as CaCO3) (p)	ppm	3.3-9.9/7.4	NR	NR	NA	NA	NA	Elemental balance in water; affected by temperature, other factors
Corrosivity (q)	AI	12.4	12.26	NR	NA	NA	NA	Elemental balance in water; affected by temperature, other factors
(as Aggressiveness Index) Corrosivity (r)	SI	0.48-0.65/0.56	0.36	NR	NA	NA	NA	Elemental balance in water; affected by temperature, other factors
(as Saturation Index) pH	pH units	8.1	8.2-8.6/8.43	8.0-8.5/8.1	NA	NA	NA	Measure of water quality
Radon	pGī/L	ND	NR	NR	NA	NA	100	Naturally occurring, comes from decay of uranium in nearly all soils
Total Dissolved Solids (TDS) (s)	ppm	450-599/565	250	260	1,000	NA	(2)	Runoff/leaching from natural deposits; seawater influence
Ethyl-tert-butyl-ether (ETBE)	ppb	ND	ND	NR	NA	NA	3	Used as gasoline additive
tert-Amyl-methyl-ether (TAME)	ppb	ND	ND	NR	NA	NA	3	Used as gasoline additive
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DEFINITION OF TERMS AND FOOTNOTES

‡ As a wholesale water system, Metropolitan and Three Valleys MWD provides its member agencies with relevant source water information and monitoring results that they may need for their annual water quality report. Compliance with state or federal regulations is determined at the treatment plant effluent locations and/or distribution system, or plant influent per frequency stipulated in Metropolitan and Three Valleys MWD's State-approved monitoring plans, and is based on TT, RAA, or LRAA, as appropriate. Data above Metropolitan's laboratory reporting limit (RL) but below the State DLR are reported as ND in this report; these data are available upon request. Metropolitan and Three Valleys MWD were in compliance with all primary and secondary drinking water regulations for the current monitoring period.

Note: Metropolitan and Three Valleys MWD monitors the distribution system for constituents under the revised Total Coliform Rule (TCR), Water Fluoridation Standards, and Disinfection Byproduct Rule (TTHMs, HAA5, and total chlorine residual), including NDMA. Constituents with grayed out areas in the distribution system column are routinely monitored at treatment plant effluents and not in the distribution system.

Definition of Terms

Al	l	Aggressiveness Index	NL	Notification Level to SWRCB
Αl	L	Action Level	NR	Not required
A۱	verage	Result based on arithmetic mean	NTU	Nephelometric Turbidity Units
Ca	aCO₃	Calcium Carbonate	pCi/L	picoCuries per Liter
C	CPP	Calcium Carbonate Precipitation Potential	PHG	Public Health Goal
CI	FE	Combined Filter Effluent	ppb	parts per billion or micrograms per liter (μg/L)
CI	FU	Colony-Forming Units	ppm	parts per million or milligrams per liter (mg/L)
DI	LR	Detection Limits for Purposes of Reporting	ppq	parts per quadrillion or picograms per liter (pg/L)
H	AA5	Sum of five haloacetic acids	RAA	Running Annual Average; highest RAA is the highest of all Running Annual Averages calculated as an average of all the samples collected within a 12-month period
H	PC	Heterotrophic Plate Count		Rulling Annual Average, highest NAA is the highest of all Rulling Annual Averages calculated as an average of all the samples collected within a 12-month period
LF	RAA	Locational Running Annual Average; highest LRAA is the highest of all Locational Running Annual	Range	Results based on minimum and maximum values; range and average values are the same if a single value is reported for samples collected once or twice annually
		Averages calculated as an average of all samples collected within a 12-month period		
M	CL	Maximum Contaminant Level	RL	reporting
M	CLG	Maximum Contaminant Level Goal	SI	Saturation Index (Langelier)
M	FL	Million Fibers per Liter	SWRCB	State Water Resources Control Board
M	RDL	Maximum Residual Disinfectant Level	TDS	Total Dissolved Solids

Footnotes

(m)

MRDLG

NA

ND

(a) Metropolitan and Three Valleys MWD monitors turbidity at the CFE locations using continuous and grab samples. Turbidity, a measure of cloudiness of the water, is an indicator of treatment performance. Turbidity was in compliance with the TT primary drinking water standard and the secondary drinking water standard of less than 5 NTU.

Threshold Odor Number

Total Trihalomethanes

Treatment Technique is a required process intended to reduce the level of a contaminate in drinking water

- (b) Per the State's Surface Water Treatment Rule, treatment techniques that remove or inactivate Giardia cysts will also remove HPC bacteria, Legionella, and viruses. Legionella and virus monitoring is not required.
- (c) Compliance is based on monthly samples from treatment plant effluents and the distribution system.
- The MCL for *E. coli* is based on any of the following conditions: Coliform-positive routine and repeat samples with either of them positive for *E. coli*; failure to analyze a repeat sample following an *E. coli*-positive routine sample; or a coliform-positive repeat sample is not tested for the presence of *E. coli*.
- (e) All distribution system samples had detectable total chlorine residuals, so no HPC analysis was required. Metropolitan and TVMWD monitor HPC bacteria to ensure treatment process efficacy.
- f) Metropolitan tests annually for acrylamide and epichlorohydrins. All other SOC data for Metropolitan was collected in 2018 and reported once every three-year compliance cycle until the next required triennial monitoring in 2021.

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TTHM

TT

- (g) Compliance with the State MCL for aluminum is based on RAA. No secondary standard MCL exceedance occurred at the Metropolitan or TVMWD plant effluents
- (h) Metropolitan data reported for 2020 once every nine-year compliance cycle until the next samples are collected in 2029. TVMWD results are from 2020.
- (i) As a wholesaler, Metropolitan and Three Valleys MWD have no retail customers and are not required to collect samples at consumers' taps. However, compliance monitoring under Title 22 is required at plant effluents.
- (j) Metropolitan was in compliance with all provisions of the State's fluoridation system requirements. Fluoride feed systems were temporarily out of service during treatment plant shutdowns and/or maintenance work in 2020, resulting in occasional fluoride levels below 0.7 mg/L. TVMWD does not have fluoride feed systems and all fluoride results are naturally occurring.
- (k) Compliance with the state and federal MCLs is based on RAA or LRAA, as appropriate. Plant core locations for TTHM and HAA5 are service connections specific to each of the treatment plant effluents.
- (I) Compliance with the state and federal bromate MCL is based on RAA

Maximum Residual Disinfectant Level Goal

Not Detected at or above DLR or RL

Not Applicable

- Metropolitan's TDS compliance data are based on flow-weighted monthly composite samples collected twice per year (April and October). The 12-month statistical summary of flow-weighted data is reported in "Other Parameters". TVMWD is required to test once annually for TDS.
- (n) Data are from voluntary monitoring of constituents and are provided for informational purposes.
- (o) Compliance with odor threshold secondary MCL is based on RAA. Treatment Plant begin quarterly monitoring if annual monitoring results are above 3.
- (p) Positive CCPP = non-corrosive; tendency to precipitate and/or deposit scale on pipes. Negative CCPP = corrosive; tendency to dissolve calcium carbonate. Reference: Standard Methods (SM2330)
- (q) Al ≥ 12.0 = Non-aggressive water; Al 10.0–11.9 = Moderately aggressive water; Al ≤ 10.0 = Highly aggressive water. Reference: ANSI/AWWA Standard C400-93 (R98)
- (r) Positive SI = non-corrosive; tendency to precipitate and/or deposit scale on pipes. Negative SI = corrosive; tendency to dissolve calcium carbonate. Reference: Standard Methods (SM2330)
- (s) Statistical summary represents 12 months of flow-weighted data and values may be different than the TDS reported to meet compliance with secondary drinking water regulations for Metropolitan. Metropolitans and TVMWD TDS goal is < 500 mg/L.

Revised 5/7/21 in yellow highlite