

**2025 Water Quality Report to Member Agencies - The Metropolitan Water District of Southern California
Treatment Plant Effluents and Distribution System (Public Water System Identification Number: 1910087)**

Parameter	Units	State MCL	PHG	State DLR/ CCRDL (RL)	Range Average	Treatment Plant Effluent *						Major Sources in Drinking Water
						Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	
Percent State Water Project	%	NA	NA	NA	Range	0 - 99	100	100	0 - 64	0 - 100		Not applicable
PRIMARY STANDARDS—Mandatory Health-Related Standards												
CLARITY												
Combined Filter Effluent (CFE) Turbidity	(a) NTU %	TT	NA	NA	Highest % = 0.3 NTU	0.05 100	0.06 100	0.07 100	0.07 100	0.06 100		Soil runoff
MICROBIOLOGICAL												
Total Coliform Bacteria	(c) % Positive Monthly Sampler	TT	MCLG = 0	NA	Range Average						0 - 0.5 0.08	Naturally present in the environment
Heterotrophic Plate Count (HPC) Bacteria	(d) CFU/mL	TT	NA	NA	Median Range Median	ND	ND	ND	ND	ND		
Cryptosporidium	Oocysts/200 L	TT	MCLG = 0	NA	Range Average	ND	ND	ND	ND	ND		Human and animal fecal waste
Giardia	Cysts/200 L	TT	MCLG = 0	NA	Range Average	ND	ND	ND	ND	ND		
ORGANIC CHEMICALS												
Synthetic Organic Compounds												
1,2,3-Trichloropropane (1,2,3-TCP)	(f) ppt	5	0.7	5	Range Average	ND	ND	ND	ND	ND		Discharge from industrial and agricultural factories; byproduct of producing other compounds and pesticides; leaching from hazardous waste sites
2,4,5-TP (Silvex)	ppb	50	3	1	Range Average	ND	ND	ND	ND	ND		Residue of banned herbicide
2,4-D	ppb	70	20	10	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used on row crops, rangeland, lawns, and aquatic weeds
Acrylamide	(f) ppm	TT	MCLG = 0	NA	Range Average	NA	NA	NA	NA	NA		Water treatment chemical impurities
Alachlor	ppb	2	4	1	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used on row crops
Alrazine	ppb	1	0.15	0.5	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used on row crops and along railroad and highway right-of-ways
Bentazon	ppb	18	200	2	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from herbicide used on beans, peppers, corn, peanuts, rice, and ornamental grasses
Benzo(a)pyrene	ppt	200	7	100	Range Average	ND	ND	ND	ND	ND		Leaching from linings and coatings of water storage tanks and distribution mains
Carbofuran	ppb	18	0.7	5	Range Average	ND	ND	ND	ND	ND		Leaching of soil fumigant used on rice, alfalfa, and grape vineyards
Chlordane	ppt	100	30	100	Range Average	ND	ND	ND	ND	ND		Residue of banned insecticide
Dalapon	ppb	200	790	10	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used on right-of-ways, and crops and landscape maintenance
Di(2-ethylhexyl)adipate	ppb	400	200	5	Range Average	ND	ND	ND	ND	ND		Discharge from chemical factories
Di(2-ethylhexyl)phthalate	ppb	4	12	3	Range Average	ND	ND	ND	ND	ND		Discharge from rubber and chemical factory, inert ingredient in pesticides
Dibromochloropropane (DBCP)	ppt	200	3	10	Range Average	ND	ND	ND	ND	ND		Banned nematocide that may still be present in soils due to runoff/leaching
Dinoseb	ppb	7	14	2	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used on soybeans, vegetables, and fruits
Dioxin (2,3,7,8-TCDD)	ppq	30	0.05	5	Range Average	ND	ND	ND	ND	ND		Waste incineration emissions; chemical factory discharge
Diquat	ppb	20	6	4	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used for terrestrial and aquatic weeds
Endothal	ppb	100	94	45	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used for terrestrial and aquatic weeds; defoliant
Endrin	ppb	2	0.3	0.1	Range Average	ND	ND	ND	ND	ND		Residue of banned insecticide and rodenticide
Epichlorohydrin	(f) ppm	TT	MCLG = 0	NA	Range Average	NA	NA	NA	NA	NA		Water treatment chemical impurities
Ethylene Dibromide (EDB)	ppt	50	10	20	Range Average	ND	ND	ND	ND	ND		Petroleum refinery discharges; underground gas tank leaks; banned nematocide that may still be present in soils due to runoff and leaching
Glyphosate	ppb	700	900	25	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide use
Heptachlor	ppt	10	8	10	Range Average	ND	ND	ND	ND	ND		Residue of banned insecticide
Heptachlor Epoxide	ppt	10	8	10	Range	ND	ND	ND	ND	ND		Breakdown product of heptachlor

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						Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant		
Organochlorine Pesticides	ppb	10	5	10	Average	ND	ND	ND	ND	ND	Distribution System	Discharge from metal refineries and agricultural factories; wastewater chlorination reaction byproduct
Hexachlorobenzene	ppb	1	0.03	0.5	Range	ND	ND	ND	ND	ND		Discharge from chemical factories
Hexachlorocyclopentadiene	ppb	50	2	1	Average	ND	ND	ND	ND	ND		Runoff/leaching from insecticide used on cattle, lumber, and gardens
Lindane	ppt	200	32	200	Range	ND	ND	ND	ND	ND		Runoff/leaching from insecticide uses on fruits, vegetables, alfalfa, and livestock
Methoxychlor	ppb	30	0.09	10	Average	ND	ND	ND	ND	ND		Runoff/leaching from herbicide used on rice
Molinate (Ordram)	ppb	20	1	2	Range	ND	ND	ND	ND	ND		Runoff/leaching from insecticide uses
Oxamyl (Vydate)	ppb	50	26	20	Average	ND	ND	ND	ND	ND		Discharge from wood preserving factories, and other insecticidal and herbicidal uses
Pentachlorophenol	ppb	1	0.3	0.2	Range	ND	ND	ND	ND	ND		Herbicide runoff
Picloram	ppb	500	166	1	Average	ND	ND	ND	ND	ND		Runoff from landfills; discharge of waste chemicals
Polychlorinated Biphenyls (PCBs)	ppt	500	90	500	Range	ND	ND	ND	ND	ND		Herbicide runoff
Simazine	ppb	4	4	1	Average	ND	ND	ND	ND	ND		Runoff/leaching from herbicide used on rice
Thiobencarb	ppb	70	42	1	Range	ND	ND	ND	ND	ND		Runoff/leaching from insecticide used on cotton and cattle
Toxaphene	ppb	3	0.03	1	Average	ND	ND	ND	ND	ND		
Volatile Organic Compounds												
1,1,1-Trichloroethane	ppb	200	1,000	0.5	Range	ND	ND	ND	ND	ND	Distribution System	Metal degreasing site discharge; manufacture of food wrappings
					Average	ND	ND	ND	ND	ND		Discharge from industrial and agricultural factories; solvent used in production of TCE, pesticides, varnish, and lacquers
1,1,2,2-Tetrachloroethane	ppb	1	0.1	0.5	Range	ND	ND	ND	ND	ND		Discharge from metal degreasing sites and other factories; dry cleaning solvent; refrigerant
1,1,2-Trichloro-1,1,2,2-trifluoroethane (Freon-113)	ppm	1.2	4	0.01	Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
1,1,2-Trichloroethane	ppb	5	0.3	0.5	Range	ND	ND	ND	ND	ND		Extraction and degreasing solvent; fumigant
					Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
1,1-Dichloroethane	ppb	5	3	0.5	Range	ND	ND	ND	ND	ND		Discharge from textile-finishing factories
					Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
1,1-Dichloroethylene	ppb	6	10	0.5	Range	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
					Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
1,2,4-Trichlorobenzene	ppb	5	5	0.5	Range	ND	ND	ND	ND	ND		Industrial chemical factory discharge; primary component of some fumigants
					Average	ND	ND	ND	ND	ND		Runoff/leaching from nematocide used on croplands
1,2-Dichlorobenzene	ppb	600	600	0.5	Range	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
					Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
1,2-Dichloroethane	ppt	500	400	500	Range	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
					Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
1,2-Dichloropropane	ppb	5	0.5	0.5	Range	ND	ND	ND	ND	ND		Plastics factory discharge; gas tanks and landfill leaching
					Average	ND	ND	ND	ND	ND		Discharge from chemical plants and other industrial waste
1,3-Dichloropropene	ppt	500	200	500	Range	ND	ND	ND	ND	ND	Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation	
					Average	ND	ND	ND	ND	ND	Discharge from pharmaceutical and chemical factories; insecticide	
1,4-Dichlorobenzene	ppb	5	6	0.5	Range	ND	ND	ND	ND	ND		
					Average	ND	ND	ND	ND	ND		
Benzene	ppb	1	0.15	0.5	Range	ND	ND	ND	ND	ND		
					Average	ND	ND	ND	ND	ND		
Carbon Tetrachloride	ppt	500	100	500	Range	ND	ND	ND	ND	ND		
					Average	ND	ND	ND	ND	ND		
cis-1,2-Dichloroethylene	ppb	6	13	0.5	Range	ND	ND	ND	ND	ND		
					Average	ND	ND	ND	ND	ND		
Dichloromethane (Methylene Chloride)	ppb	5	4	0.5	Range	ND	ND	ND	ND	ND		
					Average	ND	ND	ND	ND	ND		

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Ethylbenzene	ppb	300	300	0.5	Range Average	ND	ND	ND	ND	ND	Distribution System	Petroleum refinery discharge; industrial chemical factories	
Methyl- <i>tert</i> -butyl ether (MTBE)	ppb	13	13	3	Range Average	ND	ND	ND	ND	ND		Gasoline discharge from watercraft engines	
Monochlorobenzene	ppb	70	70	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from industrial and agricultural factories, and dry cleaners	
Styrene	ppb	100	0.5	0.5	Range Average	ND	ND	ND	ND	ND		Rubber and plastics factories discharge; landfill leaching	
Tetrachloroethylene (PCE)	ppb	5	0.06	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from factories, dry cleaners, and auto shops	
Toluene	ppb	150	150	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from petroleum and chemical refineries	
<i>trans</i> -1,2-Dichloroethylene	ppb	10	50	0.5	Range Average	ND	ND	ND	ND	ND		Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation	
Trichloroethylene (TCE)	ppb	5	1.7	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from metal degreasing sites and other factories	
Trichlorofluoromethane (Freon-11)	ppb	150	1,300	5	Range Average	ND	ND	ND	ND	ND		Industrial factory discharge; degreasing solvent; propellant and refrigerant	
Vinyl Chloride	ppt	500	50	500	Range Average	ND	ND	ND	ND	ND		Leaching from PVC piping; plastic factory discharge; byproduct of TCE and PCE biodegradation	
Xylenes, Total	ppm	1,750	1.8	0.0005	Range Average	ND	ND	ND	ND	ND	Discharge from petroleum and chemical refineries; fuel solvent		
INORGANIC CHEMICALS													
Aluminum	(g)	ppb	1,000	600	50	Range Highest RAA	ND - 82 58	ND - 79 60	ND - 96 ND	ND - 120 57	ND - 100 96	Distribution System	Residue from water treatment process; runoff and leaching from natural deposits
Antimony		ppb	6	1	6	Range Average	ND	ND	ND	ND	ND		Petroleum refinery discharges; fire retardants; solder; electronics
Arsenic		ppb	10	0.004	2	Range Average	ND	ND	ND	ND	ND		Natural deposits erosion, glass and electronics production wastes
Asbestos	(h)	MFL	7	7	0.2	Range Average	ND	ND	ND	ND	ND		Asbestos cement pipes internal corrosion; runoff and leaching from natural deposits
Barium		ppb	1,000	2,000	100	Range Average	130	ND	ND	ND	129		Oil and metal refineries discharge; natural deposits erosion
Beryllium		ppb	4	1	1	Range Average	ND	ND	ND	ND	ND		Discharge from metal refineries, aerospace, and defense industries
Cadmium		ppb	5	0.04	1	Range Average	ND	ND	ND	ND	ND		Internal corrosion of galvanized pipes; discharge from electroplating, industrial factories, and metal refineries; runoff from waste batteries and paints; natural deposits erosion
Chromium		ppb	50	MCLG = 100	10	Range Average	ND	ND	ND	ND	ND		Discharge from steel and pulp mills; natural deposits erosion
Chromium VI		ppb	10	0.02	0.1	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits; discharge from industrial wastes
Copper	(i)	ppm	AL = 1.3	0.3	0.05	Range Average	ND	ND	ND	ND	ND		Internal corrosion of household pipes; runoff/leaching from natural deposits; wood preservatives leaching
Cyanide		ppb	150	150	100	Range Average	ND	ND	ND	ND	ND	Discharge from steel/metal, plastic, and fertilizer factories	
Fluoride	(j)	ppm	2.0	1	0.1	Range Average	0.6 - 0.8 0.7	0.6 - 0.8 0.7	0.6 - 0.9 0.7	0.6 - 0.8 0.7	0.5 - 0.8 0.7	0.2 - 0.8 0.7	Runoff and leaching from natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Lead	(k)	ppb	AL = 15	0.2	5	Range Average	ND	ND	ND	ND	ND	Internal corrosion of household water plumbing systems; industrial manufacturers' discharge; runoff and leaching from natural deposits	
Mercury		ppb	2	1.2	1	Range Average	ND	ND	ND	ND	ND	Erosion of natural deposits; factory discharge; landfill runoff	
Nickel		ppb	100	12	10	Range Average	ND	ND	ND	ND	ND	Erosion of natural deposits; discharge from metal factories	
Nitrate (as Nitrogen)		ppm	10	10	0.4	Range Average	ND	ND	ND	ND	ND	Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion	
Nitrite (as Nitrogen)		ppm	1	1	0.4	Range Average	ND	ND	ND	ND	ND	Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion	
Perchlorate		ppb	6	1	1	Range Average	ND	ND	ND	ND	ND	Naturally-occurring in arid regions; industrial waste discharge	
Selenium		ppb	50	30	5	Range Average	ND	ND	ND	ND	ND	Refineries, mines, and chemical waste discharge; runoff from livestock lots	

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Thallium	ppb	2	0.1	1	Range Average	ND	ND	ND	ND	ND		Leaching from ore processing; discharge from electronics, glass, and pharmaceutical factories
RADIOLOGICALS (k)												
Gross Alpha Particle Activity	pCi/L	15	MCLG = 0	3	Range Average	ND - 5 ND	ND	ND	ND - 4 ND	ND		Runoff/leaching from natural deposits
Gross Beta Particle Activity	pCi/L	50	MCLG = 0	4	Range Average	ND - 6 ND	ND	ND	ND - 5 ND	ND - 5 ND		Decay of natural and man-made deposits
Radium-226	pCi/L	NA	0.05	1	Range Average	ND	ND	ND	ND	ND		Erosion of natural deposits
Radium-228	pCi/L	NA	0.019	1	Range Average	ND	ND	ND - 1 ND	ND	ND		
Combined Radium-226 + 228	pCi/L	5	MCLG = 0	NA	Range Average	ND	ND	ND - 1 ND	ND	ND		Decay of natural and man-made deposits
Strontium-90	pCi/L	8	0.35	2	Range Average	ND	ND	ND	ND	ND		
Tritium	pCi/L	20,000	400	1,000	Range Average	ND	ND	ND	ND	ND		Erosion of natural deposits
Uranium	pCi/L	20	0.43	1	Range Average	ND - 3 1	2 - 3 2	ND	ND - 3 2	ND - 3 ND		
DISINFECTION BYPRODUCTS, DISINFECTANT RESIDUALS, AND DISINFECTION BYPRODUCT PRECURSORS (l)												
Total Trihalomethanes (TTHM) (Plant Core Locations and Distribution System)	ppb	80	NA	1.0	Range Highest LRAA	23 - 31 27	10 - 17 14	18 - 36 26	13 - 46 30	24 - 30 31	9.8 - 55 33	Byproducts of drinking water chlorination
Sum of Five Haloacetic Acids (HAA5) (Plant Core Locations and Distribution System)	ppb	60	NA	1.0	Range Highest LRAA	ND - 3.4 3.2	ND - 2.9 3.0	1.2 - 4.4 4.2	1.4 - 18 9.4	ND - 4.9 3.1	ND - 18 9.4	
Chloramines (as Total Chlorine Residual)	ppm	MRDL = 4.0	MRDL = 4.0	NA	Range Highest RAA						1.1 - 3.1 2.6	Drinking water disinfectant added for treatment
Bromate	ppb	10	0.1	1.0	Range Highest RAA	ND - 8.4 2.4	1.4 - 6.7 4.1	ND - 5.6 3.0	ND - 8.3 1.8	ND - 12 3.0		Byproduct of drinking water ozonation
Total Organic Carbon (TOC)	ppm	TT	NA	0.30	Range Highest RAA	1.6 - 2.6 2.4	1.9 - 2.4 2.3	1.5 - 2.9 2.0	2.0 - 2.8 2.6	1.6 - 2.8 2.5		Various natural and man-made sources; TOC is a precursor for the formation of disinfection byproducts
SECONDARY STANDARDS—Aesthetic Standards												
Aluminum (g)	ppb	200	600	50	Range Highest RAA	ND - 82 58	ND - 79 60	ND - 96 ND	ND - 120 57	ND - 100 96		Residual from some surface water treatment processes; runoff and leaching from natural deposits
Chloride	ppm	500	NA	(2)	Range Average	84 - 99 92	46 - 52 49	55 - 59 57	87 - 91 89	86 - 98 92		Runoff/leaching from natural deposits; seawater influence
Color	Color Units	15	NA	(1)	Range Average	1	1	1	1	1		Naturally-occurring organic materials
Copper (i)	ppm	1.0	0.3	0.05	Range Average	ND	ND	ND	ND	ND		Internal corrosion of household pipes; runoff/leaching from natural deposits; wood preservatives leaching
Foaming Agents - Methylene Blue Active Substances (MBAS)	ppb	500	NA	(50)	Range Average	ND	ND	ND	ND	ND		Municipal and industrial waste discharges
Iron	ppb	300	NA	100	Range Average	ND	ND	ND	ND	ND		Leaching from natural deposits; industrial wastes
Manganese	ppb	50	NL = 500	(5)	Range Average	ND	ND	ND	ND	ND		Leaching from natural deposits
MTBE	ppb	5	13	3	Range Average	ND	ND	ND	ND	ND		Gasoline discharge from watercraft engines
Odor Threshold	TON	3	NA	1	Range Average	ND	ND	ND	ND	ND		Naturally-occurring organic materials
Silver	ppb	100	NA	10	Range Average	ND	ND	ND	ND	ND		Industrial discharges
Specific Conductance	µS/cm	1,600	NA	NA	Range Average	759 - 987 873	503 - 504 504	386 - 422 404	824 - 847 836	754 - 981 868		Substances that form ions in water; seawater influence
Sulfate	ppm	500	NA	0.5	Range Average	146 - 218 182	64 - 78 71	25 - 38 32	164 - 171 168	139 - 212 176		Runoff/leaching from natural deposits; industrial wastes
Thiobencarb	ppb	1	42	1	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from rice herbicide
Total Dissolved Solids, Filterable (TDS) (m)	ppm	1,000	NA	(2)	Range Average	465 - 625 545	293 - 301 297	214 - 241 228	501 - 513 507	456 - 617 536		Runoff/leaching from natural deposits
Turbidity	NTU	5	NA	0.1	Range Average	ND	ND	ND	ND	ND		Soil runoff
Zinc	ppm	5.0	NA	0.05	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits; industrial wastes
OTHER PARAMETERS												
General Minerals												
Alkalinity, Total (as CaCO ₃)	ppm	NA	NA	(1)	Range	93 - 122	96 - 100	68 - 77	105 - 108	95 - 124		Runoff/leaching of natural deposits; carbonate, bicarbonate,

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Calcium	ppm	NA	NA	(0.1)	Average	108	98	72	106	110		hydroxide, and occasionally borate, silicate, and phosphate		
					Range	44 - 68	31 - 34	16 - 20	54 - 55	43 - 70				
					Average	56	32	18	54	56				
Hardness, Total (as CaCO ₃)	ppm	NA	NA	(1)	Range	191 - 280	137 - 142	82 - 94	228 - 232	189 - 280		Runoff/leaching from natural deposits; sum of polyvalent cations, generally magnesium and calcium present in the water		
					Average	236	140	88	230	234				
					Range	19 - 25	13 - 14	9.7 - 11	21	19 - 25				
Magnesium	ppm	NA	NA	(0.01)	Average	22	14	10	21	22		Runoff/leaching from natural deposits		
					Range	3.8 - 4.8	2.8 - 2.9	2.3 - 2.5	4.2 - 4.4	3.8 - 5				
					Average	4.3	2.8	2.4	4.3	4.4				
Potassium	ppm	NA	NA	(0.2)	Range	78 - 97	46 - 50	45 - 47	83 - 87	78 - 100		Salt present in the water; naturally-occurring		
					Average	88	48	46	85	89				
					Range	19 - 25	13 - 14	9.7 - 11	21	19 - 25				
Sodium	ppm	NA	NA	(1)	Average	88	48	46	85	89				
					Range	19 - 25	13 - 14	9.7 - 11	21	19 - 25				
					Average	88	48	46	85	89				
Unregulated Contaminants														
Boron	ppb	NL = 1,000	NA	100	Range	130	190	120	130	130		Runoff/leaching from natural deposits; industrial wastes		
Chlorate	ppb	NL = 800	NA	(20)	Range	32	ND	ND	ND	31				
					Average	32	ND	ND	ND	31				
Lithium	ppb	NA	NA	(10)	Range	28 - 42	ND	ND	26 - 30	27 - 41		Naturally-occurring; used in electrochemical cells, batteries, and organic syntheses and pharmaceuticals		
					Average	35	ND	ND	28	34				
Vanadium	ppb	NL = 50	NA	3	Range	ND	ND	ND	ND	ND				Naturally-occurring; industrial waste discharge
					Average	ND	ND	ND	ND	ND				
Dichlorodifluoromethane (Freon-12)	ppb	NL = 1,000	NA	0.5	Range	ND	ND	ND	ND	ND		Industrial waste discharge		
Ethyl-tert-butyl ether (ETBE)	ppb	NA	NA	3	Range	ND	ND	ND	ND	ND				Used as gasoline additive
					Average	ND	ND	ND	ND	ND				
tert-Amyl-methyl ether (TAME)	ppb	NA	NA	3	Range	ND	ND	ND	ND	ND		MTBE breakdown product; used as gasoline additive		
tert-Butyl alcohol (TBA)	ppb	NL = 12	NA	2	Range	ND	ND	ND	ND	ND				
					Average	ND	ND	ND	ND	ND				
Nitrosamine Compounds														
N-Nitrosodimethylamine (NDMA)	ppt	NL = 10	3	(2)	Range	ND	2.1	ND	ND	ND		Byproducts of drinking water chloramination; industrial processes		
					Average	ND	2.1	ND	ND	ND				
N-Nitrosodiethylamine (NDEA)	ppt	NL = 10	NA	(2)	Range	ND	ND	ND	ND	ND				Byproducts of drinking water chloramination; industrial processes
					Average	ND	ND	ND	ND	ND				
N-Nitrosodi-n-propylamine (NDPA)	ppt	NL = 10	NA	(2)	Range	ND	ND	ND	ND	ND		Byproducts of drinking water chloramination; industrial processes		
					Average	ND	ND	ND	ND	ND				
N-Nitrosomethylethylamine (NMEA)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND				Byproducts of drinking water chloramination; industrial processes
					Average	ND	ND	ND	ND	ND				
N-Nitrosodi-n-butylamine (NDBA)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		Byproducts of drinking water chloramination; industrial processes		
					Average	ND	ND	ND	ND	ND				
N-Nitrosopyrrolidine (NPYR)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND				Byproducts of drinking water chloramination; industrial processes
					Average	ND	ND	ND	ND	ND				
N-Nitrosopiperidine (NPIP)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		Byproducts of drinking water chloramination; industrial processes		
					Average	ND	ND	ND	ND	ND				
N-Nitrosomorpholine (NMOR)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND				Industrial processes
					Average	ND	ND	ND	ND	ND				
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Analyzed by EPA Methods 533 and 537.1 (n, o)														
Perfluorooctanoic acid (PFOA)	ppt	NL = 4.0	0.007	2.0	Range	ND	ND	ND	ND	ND		Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes		
					Average	ND	ND	ND	ND	ND				
Perfluorooctanesulfonic acid (PFOS)	ppt	NL = 4.0	1	2.0	Range	ND	ND	ND	ND	ND				Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes
					Average	ND	ND	ND	ND	ND				
Perfluorobutanesulfonic acid (PFBS)	ppt	NL = 500	NA	2.0	Range	ND	ND	ND	ND	ND		Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes		
					Average	ND	ND	ND	ND	ND				
Perfluorononanoic acid (PFNA)	ppt	NA	NA	2.0	Range	ND	ND	ND	ND	ND				Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes
					Average	ND	ND	ND	ND	ND				
Perfluorohexanesulfonic acid (PFHxS)	ppt	NL = 3.0	NA	2.0	Range	ND	ND	ND	ND	ND		Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes		
					Average	ND	ND	ND	ND	ND				
Perfluoroheptanoic acid (PFHpA)	ppt	NA	NA	2.0	Range	ND	ND	ND	ND	ND				Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes
					Average	ND	ND	ND	ND	ND				
Perfluorodecanoic acid (PFDA)	ppt	NA	NA	2.0	Range	ND	ND	ND	ND	ND		Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes		
					Average	ND	ND	ND	ND	ND				
Perfluorododecanoic acid (PFDoA)	ppt	NA	NA	2.0	Range	ND	ND	ND	ND	ND				Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes
					Average	ND	ND	ND	ND	ND				
Perfluorohexanoic acid (PFHxA)	ppt	NL = 1000	NA	2.0	Range	ND	ND	ND	ND	ND		Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes		
					Average	ND	ND	ND	ND	ND				
Perfluoroundecanoic acid (PFUnA)	ppt	NA	NA	2.0	Range	ND	ND	ND	ND	ND				Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes
					Average	ND	ND	ND	ND	ND				

**2025 Water Quality Report to Member Agencies - The Metropolitan Water District of Southern California
Treatment Plant Effluents and Distribution System (Public Water System Identification Number: 1910087)**

Parameter	Units	State MCL	PHG	State DLR/ CCRDL (RL)	Range Average	Treatment Plant Effluent *					Distribution System	Major Sources in Drinking Water
						Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant		
4,8-dioxa-3H-perfluorononanoate (ADONA)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND	Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes	
F-53B Major (11CI-PF3OUdS)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
F-53B Minor (9CI-PF3ONS)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
GenX (HFPO-DA)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Analyzed by EPA Method 537.1 Only (n)												
Perfluorotetradecanoic acid (PFTA)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND	Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes	
Perfluorotridecanoic acid (PFTDA)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
N-ethyl Perfluorooctanesulfonamidoacetic acid	ppt	NA	NA	5.0	Range Average	ND	ND	ND	ND	ND		
N-methyl Perfluorooctanesulfonamidoacetic acid	ppt	NA	NA	5.0	Range Average	ND	ND	ND	ND	ND		
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Analyzed by EPA Method 533 Only (n)												
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND	Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial processes	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ppt	NA	NA	5.0	Range Average	ND	ND	ND	ND	ND		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ppt	NA	NA	5.0	Range Average	ND	ND	ND	ND	ND		
Perfluoro-3-methoxypropanoic acid (PFMPA)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
Perfluoro-4-methoxybutanoic acid (PFMBA)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
Perfluorobutanoic acid (PFBA)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
Perfluoroheptanesulfonic acid (PFHpS)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
Perfluoropentanesulfonic acid (PFPeS)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
Perfluoropentanoic acid (PFPeA)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ppt	NA	NA	2.0	Range Average	ND	ND	ND	ND	ND		
Miscellaneous (p)												
Calcium Carbonate Precipitation Potential (CCPP) (as CaCO ₃)	(q)	ppm	NA	NA	NA	Range Average	2.5 - 11 7.4	2.9 - 6.6 4.0	2.2 - 4.7 3.0	2.5 - 8.5 6.9		2.5 - 11 7.6
Corrosivity (as Aggressiveness Index)	(r)	NA	NA	NA	NA	Range Average	12.3 - 12.5 12.4	12.2 - 12.3 12.2	12.1 - 12.3 12.2	12.3 12.4	12.3 - 12.5 12.4	
Corrosivity (as Saturation Index)	(s)	NA	NA	NA	NA	Range Average	0.57 - 0.60 0.58	0.35 - 0.43 0.39	0.36 - 0.42 0.39	0.48 - 0.57 0.52	0.51 - 0.61 0.56	
pH	pH Units	NA	NA	NA	NA	Range Average	8.2 - 8.3 8.3	8.3 - 8.4 8.3	8.7	8.2	8.2 - 8.3 8.2	Not applicable
Radon	(k)	pCi/L	NA	NA	100	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Gas produced by the decay of naturally-occurring uranium in soil and water
Total Dissolved Solids, Calculated (TDS)	(l)	ppm	1,000	NA	NA	Range Average	333 - 657 507	280 - 301 292	173 - 300 234	424 - 635 525	346 - 660 506	Runoff/leaching from natural deposits

2025 Water Quality Report to Member Agencies - The Metropolitan Water District of Southern California Treatment Plant Effluents and Distribution System (Public Water System Identification Number: 1910087)

Parameter	Units	State MCL	PHG	State DLR/ CCRDL (RL)	Range Average	Treatment Plant Effluent *						Major Sources In Drinking Water
						Dlemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	

DEFINITION OF TERMS AND FOOTNOTES

* As a wholesale water system, Metropolitan provides its member agencies with relevant treated water information and monitoring results that they may need for their annual water quality reports. Metropolitan's 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's State-approved monitoring plan, and is based on TT, RAA, or LRAA, as appropriate. Data above Metropolitan's RL but below the State DLR or CCRDL are reported as ND in this report; these data are available upon request. Metropolitan was in compliance with all primary and secondary drinking water regulations for the current monitoring period.

Note: Metropolitan monitors the distribution system for constituents under the Revised Total Coliform Rule (RTCR), Water Fluoridation Standards, and Disinfectants/Disinfection Byproduct Rule (Total Trihalomethanes, Five Haloacetic Acids, and Chloramines as Total Chlorine Residual). 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

AI	Aggressiveness Index	MFL	Million Fibers per Liter	RAA	Running Annual Average; highest RAA is the highest of all RAAs calculated as an average of all the samples collected within a 12-month period
AL	Action Level	MRDL	Maximum Residual Disinfectant Level		
Average	Arithmetic mean	MRDLG	Maximum Residual Disinfectant Level Goal		
CaCO ₃	Calcium Carbonate	MRL	Minimum Reporting Level	Range	Minimum and maximum values; range and average values are the same if a single value is reported for samples collected once or twice annually
CCPP	Calcium Carbonate Precipitation Potential	NA	Not Applicable		
CCRDL	Consumer Confidence Report Detection Level	ND	Not Detected at or above DLR, CCRDL, or RL		
CFE	Combined Filter Effluent	NL	Notification Level to State Water Resources Control Board	RL	Laboratory Reporting Limit
CFU	Colony-Forming Units	NTU	Nephelometric Turbidity Units	SI	Saturation Index (Langelier)
DLR	Detection Limit for Purposes of Reporting	pCi/L	picoCuries per Liter	TDS	Total Dissolved Solids
EPA	Environmental Protection Agency	PHG	Public Health Goal	TON	Threshold Odor Number
LRAA	Locational Running Annual Average; highest LRAA is the highest of all LRAAs calculated as an average of all samples collected within a 12-month period	ppb	parts per billion or micrograms per liter (µg/L)	TT	Treatment Technique is a required process intended to reduce the level of a contaminant in drinking water
		ppm	parts per million or milligrams per liter (mg/L)	UCMR5	Fifth Unregulated Contaminant Monitoring Rule
MCL	Maximum Contaminant Level	ppq	parts per quadrillion or picograms per liter (pg/L)	µS/cm	microSiemen per centimeter, or micromho per centimeter (µmho/cm)
MCLG	Maximum Contaminant Level Goal	ppt	parts per trillion or nanograms per liter (ng/L)		

Footnotes

- (a) Metropolitan monitors turbidity at the CFE locations using continuous online meters and grab samples. Turbidity, a measure of cloudiness of the water, is an indicator of treatment performance. Turbidity was in compliance with the treatment technique of primary drinking water standard and the secondary drinking water standard of less than 5 NTU.
- (b) Per the Surface Water Treatment Rule, treatment techniques that remove or inactivate *Giardia* cysts will also remove HPC bacteria, *Legionella*, and viruses. *Legionella* and virus monitoring are not required.
- (c) Compliance is based on monthly samples from the distribution system. No Level 1 Assessments occurred and no *E. coli* was detected.
- (d) Metropolitan analyzes HPC bacteria in plant effluent to monitor treatment process efficacy.
- (e) Samples collected in 2024 and reported once every three-year compliance cycle until the next required triennial monitoring in 2027.
- (f) Metropolitan uses acrylamide for water treatment processes and was in compliance with the treatment technique requirements regarding its use when treating drinking water. Metropolitan does not use any epichlorohydrins.
- (g) Compliance with the State MCL for aluminum is based on RAA.
- (h) Samples collected in 2020 for the required 9-year monitoring cycle (2020-2028).
- (i) As a wholesaler, Metropolitan has no retail customers and is not required to collect samples at consumer taps. Compliance monitoring under Title 22 is required at the treatment plant effluents.
- (j) Metropolitan was in compliance with all provisions of the State's fluoridation requirements. When fluoride feed systems were temporarily out of service during treatment plant shutdowns and/or maintenance work, an occasional fluoride level was measured below 0.7 mg/L.
- (k) Samples are collected quarterly for gross beta particle activity, and annually for tritium and strontium-90. Gross alpha particle activity, radium, and uranium data are from samples collected quarterly in 2023 for the required triennial monitoring (2023-2025). Radon is monitored voluntarily with the triennial radionuclides.
- (l) 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.
- (m) 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 the "Other Parameters" section.
- (n) CCRDL is from DDW's Monitoring Order DW- 2025-0002-DDW for the 29 constituents detected by EPA Methods 533 and/or 537.1. Results below CCRDLs are considered "ND".
- (o) Average of the results from the two analytical methods.
- (p) Voluntary monitoring of constituents provided for informational purposes.
- (q) Positive CCPP indicates non-corrosive; tendency to precipitate and/or deposit scale on pipes. Negative CCPP indicates corrosive; tendency to dissolve calcium carbonate. Reference: Standard Method 2330
- (r) AI ≥ 12.0 indicates non-aggressive water; AI 10.0 - 11.9 indicates moderately aggressive water; AI ≤ 10.0 indicates highly aggressive water. Reference: ANSI/AWWA Standard C400-93 (R98)
- (s) Positive SI indicates non-corrosive; tendency to precipitate and/or deposit scale on pipes. Negative SI indicates corrosive; tendency to dissolve calcium carbonate. Reference: Standard Method 2330
- (t) 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 standards. Metropolitan's calculated TDS goal is 500 ppm.