Parameter	Ilnife	Federal	25	2	Range							
	o in a	Standards MCL [‡]	7,716	(RE)	Average	Diemer Plant	Jensen Plant	Mills	Skinner	Weymouth Plant	Distribution System	Major Sources in Drinking Water
Percent State Water Project	%	NA	NA	Z Z	Range	0 - 100	100	100	6 - 100	0 - 100		
DRIMARY STANDARDS—Mandatory Healt	h Dolated St	andards			Average	64	.00	100	54	68		3
GLARITY GLARITY	h-Related St	andards				SERVICE SERVIC						ENGINEERING OF SCHOOL SECTION
Combined Filter Effluent (CFE) Turbidity (a)	NTU	п	NA	×	Highest % <= 0.3	0.05	0.06	0.06	0.07	0.04		Soil runoff
MICROBIOLOGICAL (b)	1				70.0	100	100	100	100	100		
	% Positive Monthly Samples	5.0	MCLG = 0	N _A	Range	NA	AN	NA	NA	Ā	0-0.2	Naturally present in the environment
Escherichia coli (E. coli) (d)	Number	0	MCLG = 0	Ä	Number of Positive	NA	NA	NA	NA	NA	0	Human and animal fecal waste
Heterotrophic Plate Count (HPC) Bacteria (e)	CFU/mL	П	N _A	3	Median Range	ND - 1	ND - 64	ND-1	ND-1	ND-1		Naturally present in the environment
Cryptosporidium	oocysts/200 L	1	MCLG = 0	3	Range	ND	ND	ND	ND	ND R		Human and animal fecal waste
Giardia	cysts/200 L	1	MCLG = 0	3	Range	ND	ND	ND	ND	ND		Human and animal fecal waste
ORGANIC CHEMICALS Synthetic Organic Compounds (f)												
	ppt	5	0.7	σ.	Range	ND	ND	ND	ND	ND		Discharge from industrial and agrichemical 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 (9)	ppm	п	MCLG = 0	NA	Range Average	NA	NA	NA	AN	NA.		Water treatment chemical impurities
Alachlor	ppb	2	4	_	Range Average	ND	ND	ND	ND	N		Runoff from herbicide used on row crops
Atrazine	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	N	Range	ND	ND	ND	ND	N		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	N		Leaching from linings and coatings of water storage tanks and distribution mains
Carbofuran	ppb	18	0.7	5	Range Average	ND	ND	ND	ND	N		Leaching of soil fumigant used on rice, alfalfa, and grape vineyards
Chlordane	ppt	100	30	100	Range	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	w	Range Average	ND	ND	ND	ND	ND		Discharge from rubber and chemical factories; inert ingredient in pesticides
Dibromochloropropane (DBCP)	ppt	200	1.7	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
Endothall	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 (9)	ppm	П	MCLG = 0	NA.	Range Average	NA	NA	N N	NA	NA A		Water treatment chemical impurities
Ethylene Dibromide (EDB)	ppt	50	10	20	Range	ND	ND	ND	ND	ND		Petroleum refinery discharges; underground gas tank leaks; banned nematocide that may be still present in soils due to runoff and
Glyphosate	ppb	700	900	25	Range Average	ND	ND	ND	ND	ND	7	Runoff from herbicide use

		State and		State				Treatment	Treatment Plant Effluent	n# +		
Parameter	Units	Federal Standards	PHG	(RL)	Range Average	Diemer	Jensen Plant	Mills	Skinner	Weymouth	Distribution	Major Sources in Drinking Water
Heptachlor	ppt	10	8	10	Range	ND	ND	ND	ND	ND		Residue of banned insecticide
Heptachlor Epoxide	ppt	10	6	10	Range	ND	ND	ND	ND	ND		Breakdown product of heptachlor
Hexachlorobenzene	ppb		0.03	0.5	Range	ND	ND	ND	ND	ND		Discharge from metal refineries and agrichemicals factories; wastewater chlorination reaction byproduct
Hexachlorocyclopentadiene	ppb	50	2	1	Range	ND	ND	ND	ND	ND		Discharge from chemical factories
Lindane	ppt	200	32	200	Range	ND	ND	ND	ND	ND		Runofffleaching from insecticide used on cattle, lumber, and cardens
Methoxychlor	ppb	30	0.09	10	Range	ND	ND	ND	ND	ND		Runoff/leaching from insecticide uses on fruits, vegetables, alfalfa, and livestock
Molinate (Ordram)	ppb	20	1	2	Range	ND	ND	ND	ND	ND		Runoff/leaching from herbicide used on rice
Oxamyl (Vydate)	ppb	50	26	20	Range	ND	ND	ND	ND	ND		Runoff/leaching from insecticide uses
Pentachlorophenol	ppb	-	0.3	0.2	Range	ND	ND	ND	ND	ND		Discharge from wood preserving factories other insecticidal and herbicidal uses
Picloram	ppb	500	166		Range Average	ND	ND	ND	ND	ND		Herbicide runoff
Polychlorinated Biphenyls (PCBs)	ppt	500	90	500	Range	ND	ND	ND	ND	ND		Runoff from landfills; discharge of waste chemicals
Simazine	ppb	4	4	_	Range	ND	ND	ND	ND	ND ND		Herbicide runoff
Thiobencarb	ppb	70	42	1	Range Average	ND	ND	ND	ND	N		Runoff/leaching from herbicide used on rice
Toxaphene	ppb	3	0.03	1	Range	ND	ND	ND	ND	N		Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Compounds			N N		Banna							
1, 1, 1-1 inclinore maile	add	200	1,000	0.0	Average	NO	NO	NO	NO	NO		Metal degreasing site discharge; manufacture of food wrappings
1,1,2,2-Tetrachloroethane	ppb	_	0.1	0.5	Average	ND	ND	N	ND	ND		production of TCE, pesticides, varnish, and lacquers
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ppm	1.2	4	0.01	Range Average	ND	ND	ND	ND	ND		Discharge from metal degreasing sites and other factories; dry cleaning solvent; refrigerant
1,1,2-Trichloroethane	ppb	5	0.3	0.5	Range Average	ND	ND	ND	ND	dN		Discharge from industrial chemical factories
1,1-Dichloroethane	ppb	5	3	0.5	Range Average	DN	ND	ND	ND	ND		Extraction and degreasing solvent; furnigant
1,1-Dichloroethylene	ppb	6	10	0.5	Range Average	dN	ND	ND	ND	ND		Discharge from industrial chemical factories
1,2,4-Trichlorobenzene	ppb	5	5	0.5	Range Average	ON	ND	ND	ND	ND		Discharge from textile-finishing factories
1,2-Dichlorobenzene	ppb	600	600	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
1,2-Dichloroethane	ppt	500	400	500	Range Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
1,2-Dichloropropane	ppb	5	0.5	0.5	Range Average	ND	ND	ND	ND	ND		Industrial chemical factory discharge; primary component of some fumigants
1,3-Dichloropropene	ppt	500	200	500	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from nematocide used on croplands
1,4-Dichlorobenzene	ppb	5	6	0.5	Range Average	ND	ND	ND	ND	N		Discharge from industrial chemical factories
Benzene	ppb	1	0.15	0.5	Range Average	ND	ND	ND	ND	ND		Plastics factory discharge; gas tanks and landfill leaching
Carbon Tetrachloride	ppt	500	100	500	Range Average	ND	ND	ND	ND	ND		Discharge from chemical plants and other industrial waste
cis-1,2-Dichloroethylene	ppb	6	100	0.5	Range Average	ND	ND	ND	ND	ND		Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation
Dichloromethane (Methylene Chloride)	ppb	5	4	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from pharmaceutical and chemical factories; insecticide
Ethylbenzene	ppb	300	300	0.5	Range Average	ND	ND	ND	ND	ND		Petroleum refinery discharge; industrial chemical factories
Methyl-tert-butyl ether (MTBE)	ppb	13	13	ω	Range Average	ND	ND	ND	DN	ND		Gasoline discharge from watercraft engines
Monochlorobenzene	ppb	70	70	0.5	Range Average	NO	ND	ND	ND	ND		Discharge from industrial and agrichemical factories, and dry cleaners

		State and		State	0			Treatment F	Treatment Plant Effluent †	nt †		
Parameter	Units	Standards MCL ‡	PHG	(RL)	Average	Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	Major Sources in Drinking Water
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	ND	ND	ND	ND	ND		Discharge from factories, dry cleaners, and auto shops
Toluene	ppb	150	150	0.5	Range	ND	ND	N	ND	0.6		Discharge from petroleum and chemical refineries
trans-1,2-Dichloroethylene	ppb	10	60	0.5	Range	ND	ND	ND	ND	ND		Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation
Trichloroethylene (TCE)	ppb	5	1.7	0.5	Range	ND	ND	ND	ND	ND		Discharge from metal degreasing sites and other factories
Trichlorofluoromethane (Freon-11)	ppb	150	1,300	O	Range	ND	ND	ND	ND	ND		Industrial factory discharge; degreasing solvent; propellant and refrigerant
Vinyl Chloride	ppt	500	50	500	Range	ND	ND	ND	ND	ND		Leaching from PVC piping, plastic factory discharge, byproduct of TCE and PCE biodegradation
Xylenes	ppm	1.750	1.8	0.0005	Range	ND	ND	ND	ND	ND		Discharge from petroleum and chemical refineries; fuel solvent
INORGANIC CHEMICALS					90							
Aluminum (h)) ppb	1,000	600	50	Range Highest RAA	ND - 65 124	ND - 290 58	ND - 94	ND - 94	ND - 110 122		Residue from water treatment process; runoff and leaching from natural deposits
Antimony	ppb	6	1	9	Range Average	ND	ND	dN	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 (i)	MFL	7	7	0.2	Range Average	D	ND	ND	ND	ND		Asbestos cement pipes internal corrosion; runoff and leaching from natural deposits
Barium	ppb	1,000	2,000	100	Range Average	ND	ND	ND	ND	ND		Oil and metal refineries discharge; runoff and leaching from natural deposits
Beryllium	ppb	4	_	1	Range Average	ND	ND	ND	ND	ND		Discharge from metal refineries, aerospace, and defense industries
Cadmium	ррь	O.	0.04	7	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; runoff and leaching from natural deposits
Chromium	ppb	50	MCLG = 100	10	Range Average	ND	ND	ND	ND	ND		Discharge from steel and pulp mills; natural deposits erosion
Copper (i)	ppm	AL = 1.3	0.3	0.05	Range Average	ND	ND	ND	ND	ND		Internal corrosion of household pipes; runoff and leaching from natural deposits; leaching from wood preservatives
Cyanide	ppb	150	150	100	Range Average	ND	ND	ND	ND	ND		Discharge from steel/metal, plastic, and fertilizer factories
Fluoride (k)	ppm	2.0	4	0.1	Range	0.1-0.9	0.4 - 0.8	0.1-0.9	0.3 - 0.8	0.6 - 0.9	0.1 - 0.9	Runoff and leaching from natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum
		2	3	,	Average	0.7	0.7	0.7	0.7	0.7	0.7	factories Internal corrosion of household water plumbing systems; industrial
Lead	ppo	AL = 15	0.2	O	Average	2	2	S	ND	N		manufacturers' discharge; runoff and leaching from natural deposits
Mercury	ppb	2	1.2	4	Range Average	N	ND	ND	ND	N		Runoff and leaching from natural deposits; factory discharge; landfill runoff
Nickel	ppb	100	12	10	Range Average	ND	ND	ND	ND	ND		Runoff and leaching from natural deposits; discharge from metal factories
Nitrate (as Nitrogen)	ppm	10	10	0.4	Range Average	0.5	0.5	0.6	dN	0.5		Runoff and leaching from fertilizer use; septic tank and sewage; runoff and leaching from natural deposits
Nitrite (as Nitrogen)	ppm	4	1	0.4	Range Average	ND	ND	ND	ND	ND		Runoff and leaching from fertilizer use; septic tank and sewage; runoff and leaching from natural deposits
Perchlorate	ppb	6	1	4	Range Average	ND	ND	ND	ND	ND		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
Thallium	ppb	2	0.1	-	Range	ND	ND	ND	ND	ND		Leaching from ore processing; discharge from electronics, glass, and pharmaceutical factories
RADIOLOGICALS (I)					e e							
Gross Alpha Particle Activity	pCi/L	15	MCLG = 0	3	Range Average	ND	ND-3	ND	ND-4	ND		Runoff/leaching from natural deposits
Gross Beta Particle Activity	pCi/L	50	MCLG = 0	4	Range Average	ND	N	R	ND-5	N N		Decay of natural and man-made deposits
Radium-226	pCi/L	NA	0.05		Range Average	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits

Range Average Average Average Average Average Average Average Average Highest I.RAA Range Highest I.RAA Range Highest RAA Range Highest RAA Range Highest RAA Range Highest RAA Range Range Highest RAA Range Highest RAA Range Range Average Range Average Average Range Average Average Range Average Range Average Average Average Average Range Average			State and		State				Treatment F	Plant Effluer	7		
Part	Parameter	Units	Federal Standards	PHG	(RL)	Range Average	Diemer	Jensen Plant	Mills Plant	Skinner	Weymouth	Distribution System	Major Sources in Drinking Water
Decided Resultano 2014 2015 201	Radium-228	pCi/L	NA I	0.019	_	Range	N	ND	ND	ND	NB		Runoffleaching from natural deposits
Property	Combined Radium-226 + 228	pCi/L	On	MCLG = 0	AN	Range	N	ND	ND	ND	ND		Runoff/leaching from natural deposits
mm mm poly.	Strontium-90	pCi/L	œ	0.35	2	Range	ND	ND	ND	ND	ND		Decay of natural and man-made deposits
Note	Tritium	pCi/L	20,000	400	1,000	Range Average	ND	ND	ND	ND	ND		Decay of natural and man-made deposits
INVESCIONAL PRINCIPATION Property Prop	Uranium	pCI/L	20	0.43	4	Range	N	ND-1	N	ND -3	N		Runoff/leaching from natural deposits
Part	DISINFECTION BYPRODUCTS, DISINFECTANT R	ESIDUALS, A	ND DISINFEC.	TION BYPRO		RECURSORS	(m)						
off for Hishboods Ack Josia (MAAA) Job May May Range Registration and Control control proteins of State (MAAAA) 22.8 Mod 20.5 Mod	Total Trihalomethanes (TTHMs) (Plant Core Locations and Distribution System)	ppb	80	NA		Range Highest LRAA		12-21	12 - 36 25	14 - 30	14 - 31	12 - 56 28	Byproduct of drinking water chlorination
Control Probatishal Control Probability	Sum of Five Haloacetic Acids (HAA5) (Plant Core Locations and Distribution System)	ppb	60	NA	1.0	Range Highest LRAA	N	2.0 - 5.0	1.9 - 9.0	2.3 - 11	ND - 9.0	ND - 13	Byproduct of drinking water chlorination
maile maile (n) (pab) (n) (pab) (n) (n) <th< td=""><td>Total Chlorine Residual</td><td>ppm</td><td>MRDL = 4.0</td><td>MRDLG = 4</td><td>(0.05)</td><td>Range Highest RAA</td><td></td><td></td><td></td><td></td><td></td><td>0.5-2.9</td><td>Drinking water disinfectant added for treatment</td></th<>	Total Chlorine Residual	ppm	MRDL = 4.0	MRDLG = 4	(0.05)	Range Highest RAA						0.5-2.9	Drinking water disinfectant added for treatment
Columnic Candon (TOC) Paris Table Paris Pari		ppb	10	0.1	1.0	Range Highest RAA	ND - 5.9	1.6 - 8.4	ND-7.3	ND - 10	ND-8.1		Byproduct of drinking water ozonation
CONDATAVISTIANDARDS—ARESHIROUSESEMBLY (INC. SEA) App. ADD	Total Organic Carbon (TOC)	ppm	П	NA	0.30	Range Highest RAA	1.8-2.6	2.0-2.5	1.5 - 3.0	2.0-2.7	1.7 - 2.6		Various natural and man-made sources; TOC is a precursor for the formation of disinfection by products
Inform In	SECONDARY STANDARDS—Aesthetic Stan	dards	11日本の日本	出版を正式		i iigii baasi aa a		1.0				Stellesine.	or institution of a second of the second of
Indide Indide India		ppb	200	600	50	Range Highest RAA	ND - 65	ND - 290 58	ND - 94	ND - 94 51	ND - 110 122		Residue from water treatment process; runolf/leaching from natural deposits
Color Units 15	Chloride	ppm	500	NA	(2)	Range Average	53 - 58 56	62	38 - 44	68 - 78 73	46 - 55		Runoffleaching from natural deposits; seawater influence
per per mindy Against - Methy intere Blue Activic	Color	Color Units	15	NA	(1)	Range Average	ND-1	1-2	ND-1	ND - 2	ND-1		Naturally-occurring organic materials
Initing Agential-Newlyshane Blances (MBASS) Age 550 NA (50) Raminge Agential Packets ND		ppm	1.0	0.3	0.05	Range Average	ND	dN	ND	ND	ND		Internal corrosion of household pipes; runoff/leaching from natural deposits; wood preservatives leaching
panise aprilimental particular pa	Foaming Agents - Methylene Blue Active Substances (MBAS)	ppb	500	AN	(50)	Range Average	ND	D	ND	ND	ND		Municipal and industrial waste discharges
pansase parase p	Iron	ppb	300	AN	100	Range Average	ND	ND	ND	ND	243		Leaching from natural deposits; industrial wastes
EE Park Pa	Manganese	ppb	50 NL = 500	NA	20	Range Average	ND	D	ND	ND	ND		Leaching from natural deposits
rThreshold (a) TON 3 NA 1 Range ND 1 ND	MTBE	ppb	5	13	3	Range Average	ND	ND	ND	ND	ND		Gasoline discharge from watercraft engines
Part		TON	3	NA	1	Range Average	ND - 1	ND - 1	ND	1	1		Naturally-occurring organic materials
	Silver	ppb	100	AN	10	Range	ND	dN	ND	ND	ND		Industrial discharges
Rencarb Ppm S00 NA O.5 Rencarb Rencarb S9-93 S6-62 24.39 90-108 65-91 Ppm	Specific Conductance	µS/cm	1,600	NA.	NA	Range Average	508 - 521 514	471 - 505 488	299 - 343 321	576 - 644 610	435 - 503 469		Substances that form ions in water, seawater influence
bencarib (TDS) (p) ppm 1,000 NA (2) Range 296-312 280-286 163-196 330-379 244-289 280 21019; 280-286 163-196 330-379 244-289 280 21019; 280-286 280 280 280 280 280 280 280 280 280 280	Sulfate	ppm	500	AN	0.5	Range	89 - 93 91	56 - 62 59	24 - 39	90 - 108 99	65 - 81 73		Runoff/leaching from natural deposits; industrial wastes
Dissolved Solids, Filterable (TDS) (p) ppm 1,000 NA (2) Range 296-312 280-286 163-196 330-379 244-289 245 266 266 266 267 269 267 269 268	Thiobencarb	ppb	4	42	1	Range Average	ND	ND	ND	D	ND		Runoff/leaching from rice herbicide
Idity NTU 5 NA 0.1 Range Average ND Average ND		ppm	1,000	AN	(2)	Range Average	296 - 312 304	280 - 286 283	163 - 196 180	330 - 379 354	244 - 289 266		Runoff/leaching from natural deposits
HER PARAMITIERS	Turbidity	UTN	5	AN	0.1	Range Average	ND	ND	ND	ND	ND		Soil runoff
PARAMETERS Winerals ppm NA NA (1) Range rage rage 69-74 rage 80-84 rage 54-59 rage 84-87 rage 68 rage <td>Zinc</td> <td>ppm</td> <td>5.0</td> <td>NA</td> <td>0.05</td> <td>Range</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td></td> <td>Runoff/leaching from natural deposits; industrial wastes</td>	Zinc	ppm	5.0	NA	0.05	Range	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits; industrial wastes
ASCACO ₃) Appm ANA ANA ANA ANA ANA ANA AN	OTHER PARAMETERS	NAME OF STREET	HILL STREET				N 10 10 10 10 10 10 10 10 10 10 10 10 10	DOMINING.	STATE OF THE PARTY OF	A 25 20 0	No.	NAME OF STREET	CONTRACTOR OF SECURITY SECURIT
ppm NA NA (0.1) Range Average 29-30 26-28 14-16 33-39 23-27 (as CaCO ₂) ppm NA NA (1) Range 124-130 112-117 15 36 25 n ppm NA (1) Range 124-130 112-117 112-117 152 108 n ppm NA NA (0.01) Range 13-14 12-13 8.0-8.5 14-16 11-12 NA ppm NA NA (0.21) Average 2.6-2.9 2.7 2.0 3.4 2.2.7	Alkalinity (as CaCO ₃)	ppm	NA	NA	3	Range	69 - 74 72	80 - 84	54 - 59 56	84 - 87	67 - 70		Runoff/leaching of natural deposits; carbonate, bicarbonate, udroxide, and occasionally borate, silicate, and phosphate
As CaCO ₃) ppm NA NA (1) Range 124 130 112-117 66-76 139-164 101-116 (10-116) (10-1	Calcium	ppm	NA	NA	(0.1)	Range	29-30	26 - 28 27	14 - 16 15	33 - 39	23 - 27		Runoff/leaching from natural deposits
n ppm NA NA (0.01) Range 13-14 12-13 8.0-8.5 14-16 11-12 Average 2.8 2.7 1.0 3.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2	Hardness (as CaCO ₃)	ppm	NA	NA	3	Range	124 - 130 127	112 - 117	66 - 76 71	139 - 164 152	101 - 116		Runoff/leaching from natural deposits; sum of polyvalent cations, generally magnesium and calcium present in the water
ppm NA NA (0.2) Range 2.6-2.9 2.7 1.8-2.2 3.3-3.6 2.2-2.7 Average 2.8 2.0 3.4 2.4	Magnesium	ppm	NA	NA	(0.01)	Range	13 - 14	12 - 13 12	8.0 - 8.5	14 - 16	11 - 12		Runoff/leaching from natural deposits
	Potassium	ppm	NA	Ä	(0.2)	Range Average	2.6 - 2.9 2.8	2.7	1.8 - 2.2 2.0	3.3 - 3.6	2.2 - 2.7		Salt present in the water, naturally-occurring

		State and		State				Treatment	Treatment Plant Effluent †	70		
Parameter	Units	Standards	PHG	DLR (RL)	Range	Diemer Plant	Jensen Plant	Mills	Skinner	Weymouth	Distribution	Major Sources in Drinking Water
Sodium	ppm	NA.	NA	3	Range	54 - 57	51 - 54	33 - 40	62 - 69	46 - 54		Salt present in the water, naturally-occurring
Unregulated Contaminants	The state of the s			1011111	Average	96	52	36	00	50		
Boron	ppb	NL = 1,000	NA	100	Range Average	120	160	120	120	120		Runoff/leaching from natural deposits; industrial wastes
Chlorate	ppb	NL = 800	NA	20	Range	55	ND	28	35	42		Byproduct of drinking water chlorination; industrial processes
Chromium VI	ppb	NA	0.02	_	Range	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits; discharge from industrial
Vanadium	ppb	NL = 50	NA	s	Range	ND	ND	ND	ND	ND		Naturally-occurring; industrial waste discharge
tert-Butyl alcohol (TBA)	ppb	NL = 12	NA	2	Range Average	ND	ND	ND	ND	ND		MTBE breakdown product; used as gasoline additive
Dichlorodifluoromethane (Freon-12)	ppb	NL = 1,000	NA	0.5	Range	ND	ND	ND	ND	ND		Industrial waste discharge
N-Nitrosodimethylamine (NDMA)	ppt	NL = 10	ω	(2)	Range	ND	ND	3.9	3.9	NO NO	ND-4.0	Byproduct of drinking water chloramination; industrial processes
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)	250											
Perfluorooctanoic Acid (PFOA)	ppt	NL = 5.1	N.	(2)	Range	ND	ND	ND	ND	ND		Industrial chemical factory discharges: runoff/leaching from landfills:
Perfluorooctanesulfonic Acid (PFOS)	ppt	NL = 6.5	NA.	(2)	Range	ND	ND	ND	ND	ND		used in fire-retarding foams and various industrial processes
Perfluorononanoic acid (PFNA)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluorohexanesulfonic acid (PFHxS)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	N		
Perfluoroheptanoic acid (PFHpA)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluorobutanesulfonic acid (PFBS)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	N		
Perfluorodecanoic acid (PFDA)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluorododecanoic acid (PFDoA)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluorohexanoic Acid (PFHxA)	ppt	NA	NA	(2)	Range Average	22-23	2.6	2.7 - 3.0	22-24	2.5 - 2.6		
Perfluorotetradecanoic acid (PFTeDA)	ppt	NA	NA	(2)	Range	ND	ND	N	ND	N		
Perfluorotridecanoic acid (PFTrDA)	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	R		
Perfluoroundecanoic acid (PFUnA)	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	ND		
4,8-dioxa-3H-perfluorononanoate (ADONA)	ppt	NA.	NA	(2)	Range Average	ND	ND	ND	ND	ND		
F-53B Major (11Cl-PF3OUdS)	ppt	NA.	NA.	(2)	Range Average	ND	ND	ND	ND	ND		
F-53B Minor (9CI-PF3ONS)	ppt	AN	NA	(2)	Range Average	ND	ND	ND	ND	ND		
GenX (HFPO-DA)	ppt	NA.	NA	(5)	Range Average	ND	ND	ND	ND	ND		
N-ethyl Perfluorooctanesulfonamidoacetic acid	ppt	NA	AN	(2)	Range Average	ND	ND	ND	ND	ND		
N-methyl Perfluorooctanesulfonamidoacetic acid	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Extended List (r)	AS) Extende	d List (r)			a Boundary		7.0					
10:2 Fluorotelomer sulfonic acid	ppt	NA	NA.	(2)	Range Average	ND	ND	ND	ND	ND		Industrial chemical factory discharges; runoff/leaching from landfills;
4:2 Fluorotelomer sulfonic acid	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	ND		used in fire-retarding foams and various industrial processes
6:2 Fluorotelomer sulfonic acid	ppt	NA	NA.	(2)	Range Average	ND	ND	ND	ND	ND		
8:2 Fluorotelomer sulfonic acid	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	ND		
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ppt	N	NA	(2)	Range Average	ND	ND	ND	ND	ND		

Used as gasoline additive		100	100	4.4.0.0	1.0.7.0	1.0-0.0	Average	1.0	Š	60	ppb	ls (HAA5) (x)	Sum of Five Haloacetic Acids (HAA5)
		ND	ND	ND	ND	ND	Average	ω	NA	Š	ppb	NE)	tert -Amyl-methyl ether (TAME)
Used as gasoline additive		ND	ND	ND	ND	ND	Average	з	N.	NA	ppb		Ethyl-tert-butyl ether (ETBE)
Runoff/leaching from natural deposits		352	314 - 574	163 - 292 226	257 - 289 276	279 - 611 362	Range Average	×	NA	1,000	ppm	ulated (TDS) (w)	Total Dissolved Solids, Calculated (TDS)
Gas produced by the decay of naturally-occurring uranium in soil and water		NO	ND	ND	ND	ND	Range Average	100	NA	NA	pCi/L		Radon
NA		8.5	8.1 - 8.2	8.6	8.4 - 8.5	8.4 - 8.5	Range Average	NA	NA	NA.	pH Units		рН
Elemental balance in water, affected by temperature, other factors		0.34 - 0.38	0.20 - 0.28	0.20 - 0.25	0.28 - 0.46	0.33 - 0.52	Range Average	NA	NA	NA	SI	dex) (v)	Corrosivity (as Saturation Index)
Elemental balance in water, affected by temperature, other factors		12.1 - 12.2	12.0	11.9 - 12.0	12.1 - 12.3	12.1 - 12.2	Range Average	N.	NA	NA	A	ess Index) (u)	Corrosivity (as Aggressiveness Index)
Elemental balance in water; affected by temperature, other factors		1.1 - 7.3	0.4 - 5.6 2.9	0.2 - 2.4	1.1 - 3.5 2.0	1.2 - 7.7	Range	Š	NA	NA	ppm	ation Potential (t)	Calcium Carbonate Precipitation Potential (CCPP) (as CaCO ₃)
		No	N	ND	NO	ND	Range Average	(5)	NA	NA	ppt		Perfluoro (3,5-dioxahexanoic) acid
		N	ND	NO	ND	ND	Range Average	(5)	NA	NA	ppt	oic) acid	Perfluoro (3,5,7-trioxaoctanoic) acid
		N	ND	ND	ND	ND	Range Average	(5)	NA.	NA	ppt	ecanoic) acid	Perfluoro (3,5,7,9-tetraoxadecanoic) acid
		ND	ND	ND	ND	ND	Range Average	(5)	NA.	NA	ppt		Nafion Byproduct 2
		ND	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt		Nafion Byproduct 1
		ND	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt	PeA)	Perfluoropentanoic acid (PFPeA)
		R	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt	id (PFPeS)	Perfluoropentanesulfonic acid (PFPeS)
		8	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt	e (PFOSA)	Perfluorooctane sulfonamide (PFOSA)
		ND	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt	id (PFNS)	Perfluorononanesulfonic acid (PFNS)
		N	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt	I (PFHxDA)	Perfluorohexadecanoic acid (PFHxDA)
		N	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt	sid (PFHpS)	Perfluoroheptanesulfonic acid (PFHpS)
		No.	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt	acid (PFDoS)	Perfluorododecanesulfonic acid (PFDoS)
		ND	ND	ND	ND	ND	Range Average	(2)	NA A	NA	ppt	id (PFDS)	Perfluorodecanesulfonic acid (PFDS)
		ND	ND	ND	ND	ND	Range Average	(5)	NA	NA	ppt	3A)	Perfluorobutancic acid (PFBA)
		ND	ND	ND	ND	ND	Range Average	(5)	NA	NA	ppt	ic acid (PFMOBA)	Perfluoro-4-methoxybutanoic acid (PFMOBA)
		ND	ND	ND	ND	ND	Range Average	(5)	NA	NA	ppt	noic acid	Perfluoro-4-isopropoxybutanoic acid
		ND	ND	ND	ND	ND	Range Average	(5)	NA	NA	ppt	oic acid (PFMOPrA)	Perfluoro-3-methoxypropanoic acid (PFMOPrA)
		No.	ND	ND	ND	ND	Range Average	(5)	N	NA	ppt	acetic acid	Perfluoro-2-methoxyethoxyacetic acid
		ND	ND	ND	ND	ND	Range Average	(5)	NA	NA	ppt	acid	Perfluoro-2-methoxyacetic acid
		ND	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt	Ifonamidoethanol	N-methylperfluorooctane sulfonamidoethanol
used in fire-retarding foams and various industrial processes		ND	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt	Ilfonamide (NMeFOSA)	N-methylperfluorooctane sulfonamide (NMeFOSA)
industrial chemical factory discharges; runoffleaching from landfills;		ND	ND	ND	ND	ND	Range Average	(2)	NA	NA	ppt	onamidoethanol	N-ethylperfluorooctane sulfonamidoethanol
Major Sources in Drinking Water	Distribution System	Weymouth Plant	Skinner Plant	Mills Plant	Jensen Plant	Diemer Plant	Average	(RL)	PHG	Standards MCL [‡]	Units	Parameter	Pa
THE SECTION OF THE SE	14	nt †	Plant Effluent †	Treatment F			Range	State	2.0000000000000000000000000000000000000	State and	12002		

1		03550	Federal		State	Danco			Freatment F	Plant Effluen	f†		
Parameter		Units	Standards MCL *	PHG	(RL)	Average	Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	Major Sources in Drinking Water
Total Trihalomethanes (TTHMs)	(x)	daa	80	NA	10	Range	13 - 21	8.2 - 39	8.6 - 33	12 - 44	9.7 - 30		
	4		75%			Average	16	12	20	21	17		Byproduct of drinking water chlorination

DEFINITION OF TERMS AND FOOTNOTES

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below the State DLR 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. † As a wholesale water system, Metropolitan provides its member agencies with relevant source water information and monitoring results that they may need for their annual water quality report. Metropolitan's compliance with state or federal regulations is determined at the treatment plant effluent and/or distribution system locations and source water or plant influent locations per frequency stipulated in Metropolitan's State-approved monitoring plan, and is based on TT, RAA, or LRAA, as appropriate. Data above Metropolitan's laboratory reporting limit (RL) but

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

‡ The Maximum Contaminant Level (MCL) is the highest level of a contaminant set by the State and the Environmental Protection Agency (EPA) that is allowed in drinking water except for the chemical disinfectant, which is expressed as Maximum Residual Disinfectant Level (MRDL).

MCL is based on the most stringent value between the State and EPA MCLs. A contaminant with no MCL but requires compliance with other drinking water regulations is designated either as Treatment Technique (TT), Action Level (AL), or Notification Level (NL).

		(q) Data are from to		(p) Metropolitan's T			_	(I) Data are from s	occasional fluor	_	(j) As a wholesaler		Ĭ			(e) All distribution s			(c) Compliance is t	(b) standard and the	(a) Metropolitan ma	Footnotes	a 12-month penod	Calculated	is the high	LRAA Locationa			8000		CFU Colony-Fi						
	Data are from voluntary monitoring of constituents and are provided for informational numbers.	Data are from two analytical methods based on EPA 537.1 and a research method for 18 different PFAS	eous".	Metropolitan's TDS compliance data are based on flow-weighted monthly composite samples collected twice per year (April and October).	odor threshold secondary MCL is based on RAA. Both	the State and Federal bromate MCL is based on RAA.	the State and Federal MCLs is based on RAA or LRAA	Data are from samples collected in 2017 for the required triennial monitoring (2017-2019) until the next samples are collected	occasional fluoride levels below 0.6 mg/L.	s in compliance with all provisions of the State's fluorida	, Metropolitan has no retail customers and is not require	Data reported once every nine-year compliance cycle until the next samples are collected in 2020. Current monitoring results are from 201	the State MCL for aluminum is based on RAA. No sec	as acrylamide for water treatment processes and was in	amples collected in 2018 for the required triennial monit	ystem samples had detectable total chlorine residuals,	positive repeat sample is not tested for the presence of E. coli.	coll is based on any of the following conditions: Coliforn	Compliance is based on monthly samples from treatment plant effluents and the distribution system	standard and the secondary drinking water standard of less than 5 NTU. Per the State's Surface Water Treatment Rule, treatment techniques that	Metropolitan monitors turbidity at the CFE locations using continuous and grab samples. Turbidity, a measure of cloudiness of the water,		n penoa	calculated as an average of all samples collected within	is the highest of all Locational Running Annual Averages	Locational Running Annual Average; highest LRAA	Heterotrophic Plate Count	Sum of five haloacetic acids	Environmental Protection Agency	Detection Limits for Purposes of Reporting	Colony-Forming Units	Combined Filter Effluent	Calcium Carbonate Precipitation Potential	Calcium Carbonate	Result based on anthmetic mean	vei	Aggressiveness index
The state of the last	notuding 18 PF	ch method for		y composite sa	Diemer and Jo	No MCL exce	, as appropriat	oring (2017-20:		tion system rec	d to collect san	ples are collec-	ondary standar	compliance wit	oring (2017-20	so no HPC ana		n-positive routi	and the distrib). at remove or in	nd grab sample		ppt	ppq	ppm	ppb	PHG	pCi/L	UTU	N.	ND	Ä	MRDLG	MRDL	MFL	MCLG	MCL
Troces.	AS reported under EPA 537.1.	18 different PFAS.			insen treatment plants returned to compliance during th	Compliance with the State and Federal bromate MCL is based on RAA. No MCL exceedance occurred in the Skinner treatment plant effluent.	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.	until the next samples are collected.		uirements. Fluoride feed systems were temporarily out	As a wholesaler, Metropolitan has no retail customers and is not required to collect samples at consumers' taps. However, compliance monitoring under Title 22 is required at plant effluents	ed in 2020. Current monitoring results are from 2011.	Compliance with the State MCL for aluminum is based on RAA. No secondary standard MCL exceedance occurred in the Jensen treatment plant effluent.	h the treatment technique requirements regarding its us	Data are from samples collected in 2018 for the required triennial monitoring (2017-2019) except for 1,2,3-Trichloropropane which began monitoring in 2018.	All distribution system samples had detectable total chlorine residuals, so no HPC analysis was required. Metropolitan monitors HPC bacteria to ensure treatment monese efficance.		ne and repeat samples with either of them positive for F	ation evetom	activate Giardia cysts will also remove HPC bacteria. Le	s. Turbidity, a measure of cloudiness of the water, is an		parts per trillion or nanograms per liter (ng/L)	parts per quadrillion or picograms per liter (pg/L)	parts per million or milligrams per liter (mg/L)	parts per billion or micrograms per liter (µg/L)	Public Health Goal	picoCuries per Liter	Nephelometric Turbidity Units	Notification Level to SWRCB	Not Detected at or above DLR or RL	Not Applicable	Maximum Residual Disinfectant Level Goal	Maximum Residual Disinfectant Level	Million Fibers per Liter	Maximum Contaminant Level Goal	Maximum Contaminant Level
				12-month stat	e first quarter o		connections s			of service duri	ring under Title		lant effluent.	se when treatin	itoring in 2018.	to ensure treat	The second second	coli: failure to	A CONTRACTOR	egionella and	n indicator of to		μS/cm	TTHMS		⇉	TON	TDS	SWRCB	S	RL			Range			RAA
				The 12-month statistical summary of flow-weighted data is reported in the "Other Parameters" section	Compliance with odor threshold secondary MCL is based on RAA. Both Diemer and Jensen treatment plants returned to compliance during the first quarter of 2019 with reduced monitoring frequency from quarterly to annual		necific to each of the treatment plant effluents		III Bunned in 1972 and 1972 an	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 structures and compliance work in 2019, resulting in	22 is required at plant effluents		A Company of the seasons of the seas	Metropolitan uses acrylamide for water treatment processes and was in compliance with the treatment technique requirements regarding its use when treating dinking water. Metropolitan does not use any enchlorohydring	men process sincery.	ment process efficacy	sumpto a repeat sample renorming an E. con-positive routine sample, of a compine	The MCL for E. coli is based on any of the following conditions. Coliforn-positive routine and repeat samples with either of them positive for E. coli: failure to analyze a reneat sample following conditions. Coliforn-positive routine and repeat samples with either of them positive for E. coli: failure to analyze a reneat sample following conditions.	- January Control of the Control of	standard and the secondary drinking water standard of less than 5 NTU. 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.	is an indicator of treatment performance. Turbidity was in compliance with the TT primary displain water		microSiemen per centimeter; or micromho per centimeter (µmho/cm)	Total Trihalomethanes	of a contaminant in drinking water	Treatment Technique is a required process intended to reduce the level	Threshold Odor Number	Total Dissolved Solids	State Water Resources Control Board	Saturation Index (Langelier)	Reporting Limit	once or twice annually	values are the same if a single value is reported for samples collected	Results based on minimum and maximum values; range and average	within a 12-month period	Annual Averages calculated as an average of all the samples collected	Running Annual Average; highest RAA is the highest of all Running

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Positive CCPP = non-corrosive; tendency to precipitate and/or deposit scale on pipes. Negative CCPP = corrosive; tendency to dissolve calcium carbonate. Reference: Standard Methods (SM230) Al > 12.0 = Non-aggressive water, Al 1.0.0-11.9 = Moderately aggressive water, Al ≤ 10.0 = Highly aggressive water. Reference: ANSI/AWWA Standard C400-93 (R98) 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)

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. Metropolitan's calculated TDS goal is < 500 mg/L HAA5 and TTHMs noncompliance samples collected at treatment plant effluents.

Parameter Branche Branch					Tre	Treatment Plant Effluents and Distribution System	ant Effluer	its and Dis	tribution S	ystem			
State Water Proposed	Dorange	3	State and Federal	B D D	State	Range			Treatment I	Plant Effluer	# +		Major Sources in Drinking Water
State Note Project 10,	Parameter	Units	Standards MCL [‡]	PHG	(RL)	Average	Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	Major Sources in Drinking Water
MAXIS SELECTION CONTRIBUTION CO	Percent State Water Project	%	NA	NA.	NA.	Range	0-100	100	100	6 - 100	0 - 100		NA
OND Plant ENTITY LOND LOND LOND LOND LOND COM	PRIMARY STANDARDS—Mandatory Health	-Related Star	dards	Section 1	1	o General Anna			Section Section		The state of the s	THE REAL PROPERTY.	がい ませんでいる Book Book Book
DISCHOLOGICAL DI	Filter Effluent (CFE) Turbidity	NTU	7	NA	NA	Highest % <= 0.3	0.05	0.06	0.06	0.07	0.04		Soil runoff
System Bottoms Col. System Syst													のかり とうないとうとうとうとうというは は
eichia coolific		% Positive Monthly Samples	5.0	MCLG = 0	NA	Range Average	NA	NA	NA	NA	NA	0-0.2	Naturally present in the environment
People Pilan Count (4PC) Badroris OF Unit. TT NA. (1) Midden Rimon NO1 NO4 NO1		Number	0	MCLG = 0		Number of Positive Samples		NA.	NA	NA.	NA	0	Human and animal fecal waste
oponisium copyisizionia copyisizionia ITT MCG-0- 0 17 MCG-0- 0 18 NO		CFU/mL	П	NA		Median Range Median	-	ND - 64	ND - 1	ND - 1	ND - 1		Naturally present in the environment
Columnication Columnicatio	Cryptosporidium	oocysts/200 L	#	MCLG = 0		Range Average		ND	ND	ND	ND		Human and animal fecal waste
MICHOCANIONALS Part 5 0.7 5 Range MO MO MO MO MO MO MO M	Giardia	cysts/200 L	п	MCLG = 0	(1)	Range Average	dN	ND	ND	ND	ND		Human and animal fecal waste
Incitrotroprophere (1,2,3-10-P)							100		THE REAL PROPERTY.				
P(SNAVO) Ppb 50 3 1 Range ND ND ND ND ND ND ND N		ppt	5	0.7	51	Range Average	ND	ND	ND	ND	ND		Discharge from industrial and agrichemical factories; byproduct of producing other compounds and pesticides; leaching from hazardous waste sites
Pob 70 20 10 Range ND ND ND ND ND ND ND N	2,4,5-TP (Silvex)	ppb	50	3	1	Range Average	ND	ND	ND	ND	ND		Residue of banned herbicide
Intide (a) ppm TT MCLG = 0 NA Range NA	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
Part		ppm	п	MCLG = 0	NA	Range Average	AN	NA	NA	NA	NA		Water treatment chemical impurities
Be Be Be Be 1 0.15 0.5 Range ND ND ND ND ND ND ND N	Alachlor	ppb	2	4	1	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used on row crops
Son Ppb 18 200 2 Range Average Average ND	Atrazine	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
Jalpyrens Legit 200 7 100 Randge Average A	Bentazon	ppb	18	200	2	Range Average	ND	DN	ND	ND	ND		Runoffleaching from herbicide used on beans, peppers, corn, peanuts, rice, and ornamental grasses
urian ppb 18 0.7 5 Average August ND	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
anne ppt 100 30 100 Average Average Phylhexyl)pidripate ND ND <td>Carbofuran</td> <td>ppb</td> <td>18</td> <td>0.7</td> <td>5</td> <td>Range Average</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td></td> <td>Leaching of soil fumigant used on rice, alfalfa, and grape vineyards</td>	Carbofuran	ppb	18	0.7	5	Range Average	ND	ND	ND	ND	ND		Leaching of soil fumigant used on rice, alfalfa, and grape vineyards
nn ppb 200 790 10 Range Auerage Augusta ND N	Chlordane	ppt	100	30	100	Range Average	ND	ND	ND	ND	ND		Residue of banned insecticide
hybitexyl)adiplate ppb 400 200 5 Range Average Average ND ND <td>Dalapon</td> <td>ppb</td> <td>200</td> <td>790</td> <td>10</td> <td>Range Average</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td></td> <td>Runoff from herbicide used on right-of-ways, and crops and landscape maintenance</td>	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
hybritexy/liphthalate ppb 4 12 3 Range Average Range R	Di(2-ethylhexyl)adipate	ppb	400	200	5	Range Average	ND	ND	ND	ND	ND		Discharge from chemical factories
bb ppt 200 1.7 10 Range Average Rub ND ND <td>Di(2-ethylhexyl)phthalate</td> <td>ppb</td> <td>4</td> <td>12</td> <td>အ</td> <td>Range Average</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td></td> <td>Discharge from rubber and chemical factories; inert ingredient in pesticides</td>	Di(2-ethylhexyl)phthalate	ppb	4	12	အ	Range Average	ND	ND	ND	ND	ND		Discharge from rubber and chemical factories; inert ingredient in pesticides
b ppb 7 14 2 Range Average Range Ran	Dibromochloropropane (DBCP)	ppt	200	1.7	10	Range Average	ND	ND	ND	ND	ND		Banned nematocide that may still be present in soils due to runoff/leaching
(2,3,7,8-TCDD) ppq 30 0.05 5 Range Average Range	Dinoseb	ppb	7	14	2	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used on soybeans, vegetables, and fruits
all ppb 20 6 4 Range Average ND	Dioxin (2,3,7,8-TCDD)	ppq	30	0.05	5	Range Average	ND	ND	ND	ND	ND		Waste incineration emissions; chemical factory discharge
fall ppb 100 94 45 Range Average Range Average ND	Diquat	ppb	20	6	4	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used for terrestrial and aquatic weeds
ppb 2 0.3 0.1 Range Average Average and Distribution ND ND <td>Endothall</td> <td>ppb</td> <td>100</td> <td>94</td> <td>45</td> <td>Range Average</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td></td> <td>Runoff from herbicide used for terrestrial and aquatic weeds; defoliant</td>	Endothall	ppb	100	94	45	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide used for terrestrial and aquatic weeds; defoliant
Iddin (g) ppm TT MCLG = 0 NA Range Average NA N	Endrin	ppb	2	0.3	0.1	Range Average	ND	ND	ND	ND	ND		Residue of banned insecticide and rodenticide
bromide (EDB) ppt 50 10 20 Range Average ND		ppm	П	MCLG = 0	NA	Range Average	NA	NA	NA	NA	NA		Water treatment chemical impurities
ppb 700 900 25 Range Average ND ND ND ND ND ND	Ethylene Dibromide (EDB)	ppt	50	10	20	Range	ND	ND	ND	ND	ND		Petroleum refinery discharges, underground gas tank leaks, banned inematocide that may be still present in soils due to runoff and leaching
	Glyphosate	ppb	700	900	25	Range Average	ND	ND	ND	ND	ND		Runoff from herbicide use

		State and		State				Treatment Plant Effluent †	Plant Effluer	ıt†		
Parameter	Units	Federal Standards	PHG	DLR (RL)	Range Average	Diemer Plant	Jensen Plant	Mills	Skinner	Weymouth Plant	Distribution System	Major Sources in Drinking Water
Heptachlor	ppt	10	8	10	Range	ND	ND	ND	ND	ND		Residue of banned insecticide
Heptachlor Epoxide	ppt	10	ō	10	Range	ND	ND	ND	ND	ND	State of the last	Breakdown product of heptachlor
Hexachlorobenzene	ppb	1	0.03	0.5	Range	ND	ND	ND	ND	ND		Discharge from metal refineries and agrichemicals factories; wastewater chlorination reaction byproduct
Hexachlorocyclopentadiene	ppb	50	N	_	Range	ND	N	ND	ND	ND		Discharge from chemical factories
Lindane	ppt	200	32	200	Range	ND	ND	ND	ND	ND		Runoff/leaching from insecticide used on cattle, lumber, and gardens
Methoxychlor	ppb	30	0.09	10	Range	ND	ND	ND	ND	ND		Runoff/leaching from insecticide uses on fruits, vegetables, alfalfa, and livestock
Molinate (Ordram)	ppb	20	٦	N	Range	ND	ND	ND	ND	ND		Runoff/leaching from herbicide used on rice
Oxamyl (Vydate)	ppb	50	26	20	Range	ND	ND	ND	ND	ND		Runoff/leaching from insecticide uses
Pentachlorophenol	ppb	1	0.3	0.2	Range	ND	ND	ND	ND	ND		Discharge from wood preserving factories other insecticidal and herbicidal uses
Picloram	ppb	500	166	_	Range	ND	ND	ND	ND	ND		Herbicide runoff
Polychlorinated Biphenyls (PCBs)	ppt	500	90	500	Range	DN	DN	ND	ND	ND		Runoff from landfills; discharge of waste chemicals
Simazine	ppb	4	4	1	Range Average	ND	ND	ND	ND	ND		Herbicide runoff
Thiobencarb	ppb	70	42	1	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from herbicide used on rice
Toxaphene	ppb	3	0.03	1	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Compounds	3	30	1000	2	Range	5	5	25	25	5		Metal degreasing site discharge: manufacture of food wrappings
1.1.2.2-Tetrachloroethane	ppb	_	0.1	0.5	Range	N	ND	N N	ND ND	ND		Discharge from industrial and agrichemical factories; solvent used in
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ppm	1.2	4	0.01	Range	ND	ND	ND	ND	ND		Discharge from metal degreasing sites and other factories; dry cleaning solvent; refrigerant
1,1,2-Trichloroethane	ppb	Si Si	0.3	0.5	Range	ND	dN	ND	ND	ND		Discharge from industrial chemical factories
1,1-Dichloroethane	ppb	Si Si	ω	0.5	Range Average	ND	ND	ND	ND	ND		Extraction and degreasing solvent; fumigant
1,1-Dichloroethylene	ppb	6	10	0.5	Range Average	ND	D	ND	ND	ND		Discharge from industrial chemical factories
1,2,4-Trichlorobenzene	ppb	5	5	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from textile-finishing factories
1,2-Dichlorobenzene	ppb	600	600	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
1,2-Dichloroethane	ppt	500	400	500	Range Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
1,2-Dichloropropane	ppb	5	0.5	0.5	Range Average	ND	ND	ND	ND	ND		Industrial chemical factory discharge; primary component of some fumigants
1,3-Dichloropropene	ppt	500	200	500	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from nematocide used on croplands
1,4-Dichlorobenzene	ppb	5	6	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from industrial chemical factories
Benzene	ppb	1	0.15	0.5	Range Average	ND	ND	ND	ND	ND		Plastics factory discharge; gas tanks and landfill leaching
Carbon Tetrachloride	ppt	500	100	500	Range Average	ND	ND	ND	ND	ND		Discharge from chemical plants and other industrial waste
cis-1,2-Dichloroethylene	ppb	6	100	0.5	Range Average	ND	ND	ND	ND	ND		Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation
Dichloromethane (Methylene Chloride)	ppb	Sī.	4	0.5	Range Average	ND	ND	ND	ND	ND		Discharge from pharmaceutical and chemical factories; insecticide
Ethylbenzene	ppb	300	300	0.5	Range Average	ND	ND	ND	ND	ND		Petroleum refinery discharge; industrial chemical factories
Methyl-terf-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 agrichemical factories, and dry cleaners

		State and		State				Treatment Plant Effluent	lant Effluen	ıt†		
Parameter	Units	Standards	PHG	(RL)	Average	Diemer	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	Distribution System	Major Sources in Drinking Water
Styrene	ppb	100	0.5	0.5	Range	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	ND	ND	ND	ND	0.6		Discharge from petroleum and chemical refineries
trans-1,2-Dichloroethylene	ppb	10	60	0.5	Range	ND	ND	ND	ND	ND		Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation
Trichloroethylene (TCE)	ppb	5	1.7	0.5	Range	ND	ND	ND	ND	ND		Discharge from metal degreasing sites and other factories
Trichlorofluoromethane (Freon-11)	ppb	150	1,300	5	Range	ND	ND	ND	ND	ND		Industrial factory discharge; degreasing solvent; propellant and refrigerant
Vinyl Chloride	ppt	500	50	500	Range	ND	ND	ND	ND	ND		Leaching from PVC piping; plastic factory discharge; byproduct of TCE and PCE biodegradation
Xylenes	ppm	1.750	1.8	0.0005		ND	ND	ND	ND	ND		Discharge from petroleum and chemical refineries; fuel solvent
INORGANIC CHEMICALS												
Aluminum (h)	ppb	1,000	600	50	Range Highest RAA	ND - 65	ND - 290	ND - 94	ND - 94	ND - 110		natural deposits
Antimony	ppb	6	-	0	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 (i)	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	ND	ND	DN	ND	ND		Oil and metal refineries discharge; runoff and leaching from natural deposits
Beryllium	ppb	4	4	4	Range Average	ND	ND	ND	ND	ND		Discharge from metal refineries, aerospace, and defense industries
Cadmium	ppb	5	0.04	۵.	Range	ND	ND	ND	ND	ND		Internal corrosion of galvanized pipes; discharge from electroplating, industrial factories, and metal refineries; runoff from waste batteries and paints; runoff and leaching from natural deposits
Chromium	ppb	50	MCLG = 100	10	Range Average	ND	ND	ND	ND	ND		Discharge from steel and pulp mills; natural deposits erosion
Copper (i)	ppm	AL = 1.3	0.3	0.05	Range Average	ND	ND	ND	ND	ND		Internal corrosion of household pipes; runoff and leaching from natural deposits; leaching from wood preservatives
Cyanide	ppb	150	150	100	Range Average	DN	ND	ND	ND	ND		Discharge from steel/metal, plastic, and fertilizer factories
Fluoride (k)	ppm	2.0	_	0.1	Range	0.1-0.9	0.4 - 0.8	0.1 - 0.9	0.3 - 0.8	0.6 - 0.9	0.1-0.9	Runoff and leaching from natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum
Lead (i)	ppb	AL = 15	0.2	on .	Range	ND	ND	ND S.	ND S	ND S		Tactories Internal corrosion of household water plumbing systems; industrial manufacturers' discharge; runoff and leaching from natural deposits
Mercury	ppb	2	1.2	_	Range	ND	ND	ND	ND	ND		Runoff and leaching from natural deposits; factory discharge; landfill runoff
Nickel	ppb	100	12	10	Range Average	ND	ND	ND	ND	ND		Runoff and leaching from natural deposits; discharge from metal factories
Nitrate (as Nitrogen)	ppm	10	10	0.4	Range Average	0.5	0.5	0.6	ND	0.5		Runoff and leaching from fertilizer use; septic tank and sewage; runoff and leaching from natural deposits
Nitrite (as Nitrogen)	ppm	-	4	0.4	Range Average	ND	ND	ND	ND	ND		Runoff and leaching from fertilizer use; septic tank and sewage; runoff and leaching from natural deposits
Perchlorate	ppb	6	4	4	Range Average	ND	ND	ND	ND	ND		Industrial waste discharge
Selenium	ppb	50	30	(J)	Range	ND	ND	ND	ND	ND		Refineries, mines, and chemical waste discharge; runoff from livestock lots
Thallium	ppb	2	0.1	1	Range	DN	ND	ND	ND	ND		Leaching from ore processing; discharge from electronics, glass, and pharmaceutical factories
RADIOLOGICALS (I)							5					
Gross Alpha Particle Activity	pCi/L	15	MCLG = 0	ယ	Average	ND	ND-3	ND	ND-4	ND		Runoff/leaching from natural deposits
Gross Beta Particle Activity	pCi/L	50	MCLG = 0	4	Range Average	ND	ND	ND	ND - 5	ND		Decay of natural and man-made deposits
Radium-226	pCi/L	NA	0.05	_	Range Average	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits

		State and		State				Treatment	Treatment Plant Effluent †	14		
Parameter	Units	Standards	PHG	(RL)	Range Average	Diemer	Jensen	Mills	Skinner	Weymouth	Distribution	Major Sources in Drinking Water
Radium-228	pCi/L	NA	0.019	-	Range	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits
Combined Radium-226 + 228	pCi/L	5	MCLG = 0	AN	Range	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits
Strontium-90	pCi/L	8	0.35	2	Range	N	ND	ND	ND	ND ND		Decay of natural and man-made deposits
Tritium	pC//L	20,000	400	1,000	Range	ND	ND	ND	ND	ND		Decay of natural and man-made deposits
Uranium	pCVL	20	0,43	1	Range	ND	ND-1	N	ND-3	ND		Runoff/leaching from natural deposits
DISINFECTION BYPRODUCTS, DISINFECTANT RESIDUALS, AND DISINFECTION BYPRODUCT PRECURSORS	RESIDUALS, A	ND DISINFEC	TION BYPRO	DUCTF	RECURSOR	(m)	NO		ND			
(Plant Core Locations and Distribution System)	ppb	80	Ŋ	1.0	Range Highest LRAA		12 - 21	12 - 36 25	14 - 30	14 - 31 27	12 - 56 28	Byproduct of drinking water chlorination
Sum of Five Haloacetic Acids (HAA5) (Plant Core Locations and Distribution System)	ppb	60	NA	1.0	Range Highest LRAA	2	2.0 - 5.0	1.9 - 9.0	23-11	ND-9.0	ND - 13	Byproduct of drinking water chlorination
Total Chlorine Residual	ppm	MRDL = 4.0	MRDLG = 4	(0.05)	Range Highest RAA						0.5 - 2.9	Drinking water disinfectant added for treatment
Bromate (n)	ppb	10	0.1	1.0	Range Highest RAA	ND - 5.9	1.6 - 8.4	ND-7.3	ND - 10	ND - 8.1	Day 1	Byproduct of drinking water ozonation
Total Organic Carbon (TOC)	ppm	П	NA	0.30	Range Highest BAA	1.8 - 2.6	2.0-2.5	1.5-3.0	2.0-2.7	1.7 - 2.6		Various natural and man-made sources, TOC is a precursor for the
SECONDARY STANDARDS—Aesthetic Stand	idards				Highestivo	4.7	2.3	7.7	2.4	2.4		rollination of distribution byproducts
Aluminum (h)	ppb	200	600	50	Range Highest RAA	ND - 65 124	ND - 290 58	ND - 94	ND - 94	ND - 110 122		Residue from water treatment process; runofffleaching from natural deposits
Chloride	ppm	500	NA	(2)	Range	53 - 58 56	62	38 - 44	68 - 78 73	46 - 55		Runoff/leaching from natural deposits; seawater influence
Color	Color Units	15	NA	(1)	Range Average	ND-1	1-2	ND-1	ND-2	ND-1		Naturally-occurring organic materials
Copper (i)	ppm	1.0	0.3	0.05	Range	ND	ND	ND	ND	ND		Internal corrosion of household pipes; runoffleaching from natural
Foaming Agents - Methylene Blue Active Substances (MBAS)	ppb	500	NA	(50)	Range	ND	ND	NB	ND	ND		Municipal and industrial waste discharges
Iron	ppb	300	NA	100	Range	ND	ND	ND	ND	243		Leaching from natural deposits; industrial wastes
Manganese	ppb	50 NL = 500	NA	20	Range	ND	ND	ND	ND	ND		Leaching from natural deposits
MTBE	ppb	5	13	ω	Range	ND	ND	ND	ND	ND		Gasoline discharge from watercraft engines
Odor Threshold (o)	TON	3	NA	-	Range Average	ND - 1	ND - 1	ND	4	1		Naturally-occurring organic materials
Silver	ppb	100	NA	10	Range	ND	ND	ND	ND	ND		Industrial discharges
Specific Conductance	µS/cm	1,600	NA	Ä	Range	508 - 521 514	471 - 505 488	299 - 343 321	576 - 644 610	435 - 503 469		Substances that form ions in water, seawater influence
Sulfate	ppm	500	NA	0.5	Range Average	89 - 93 91	56 - 62 59	24 - 39 32	90 - 108 99	65 - 81 73		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) (p)	ppm	1,000	NA	(2)	Range Average	296 - 312	280 - 286 283	163 - 196 180	330 - 379 354	244 - 289		Runoff/leaching from natural deposits
Turbidity	UTU	51	NA	0.1	Range	ND	ND	ND	ND	ND		Soil runoff
Zinc	ppm	5.0	NA	0.05	Range	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits; industrial wastes
OTHER PARAMETERS General Minerals	STATE STATE	Released on	Shanna			(Constitution)		STATE STATE		No. of Concession, Name of Street, or other Persons, Name of Street, or ot		STATE OF THE PARTY
Alkalinity (as CaCO ₃)	ppm	NA	NA	3	Range	69 - 74	80 - 84	54 - 59	84 - 87	67 - 70		Runoff/leaching of natural deposits; carbonate, bicarbonate,
Calcium	ppm	NA	¥	(0.1)	Range	29 - 30	26 - 28	14 - 16	33 - 39	23 - 27		Runoff/leaching from natural deposits
Hardness (as CaCO ₃)	ppm	NA	NA	3	Range	124 - 130 127	112 - 117	66 - 76 71	139 - 164	101 - 116		Runoff/leaching from natural deposits; sum of polyvalent cations,
Magnesium	ppm	NA	NA	(0.01)	Range	13 - 14	12 - 13	8.0 - 8.5	14 - 16	11 - 12		Runoff/leaching from natural deposits
Potassium	ppm	NA	NA	(0.2)	Range Average	2.6 - 2.9 2.8	2.7	1.8 - 2.2	3.3 - 3.6	22-27	(0)	Salt present in the water; naturally-occurring

				State	CHARGO PROSCUE			realment	reatment Plant Emluent	141		
Parameter	Units	Standards	PHG	(RE)	Average	Diemer	Jensen	Mills	Skinner	Weymouth	Distribution	Major Sources in Drinking Water
Sodium	ppm	NA	NA	3	Range	54 - 57	51-54	33 - 40	62-69	46 - 54		Sall present in the water naturally-occurring
Unregulated Contaminants			The state of the s		Average	56	52	36	66	50		Suring Country of Individual Country of the Country
Boron	ppb	NL = 1,000	NA	100	Range	120	160	120	120	120		Runoffleaching from natural deposits; industrial wastes
Chlorate	ppb	NL = 800	NA	20	Range	55	ND	28	35	42		Byproduct of drinking water chlorination; industrial processes
Chromium VI	ppb	NA	0.02	4	Range	ND	ND	ND	ND	ND		Runoff/leaching from natural deposits; discharge from industrial
Vanadium	ppb	NL = 50	NA	3	Range	ND	ND	ND	ND	ND		Naturally-occurring; industrial waste discharge
len-Butyl alcohol (TBA)	ppb	NL = 12	NA	2	Range	ND	ND	ND	ND	ND		MTBE breakdown product; used as gasoline additive
Dichlorodifluoromethane (Freon-12)	ppb	NL = 1,000	AN	0.5	Range	ND	ND	ND	ND	ND		Industrial waste discharge
N-Nitrosodimethylamine (NDMA)	ppt	NL = 10	3	(2)	Range	ND	ND	3.9	3,9	ND	ND - 4.0	Byproduct of drinking water chloramination; industrial processes
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)	PFAS) List (q)							STEERS				
Perfluorooctanoic Acid (PFOA)	ppt	NL = 5.1	NA	(2)	Range Average	ND	ND	dN	ND	ND		Industrial chemical factory discharges: nunoffleaching from landfills:
Perfluorooctanesulfonic Acid (PFOS)	ppt	NL = 6.5	NA	(2)	Range Average	ND	ND	ND	ND	ND		used in fire-retarding foams and various industrial processes
Perfluorononanoic acid (PFNA)	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	ND		
Perfluorohexanesulfonic acid (PFHxS)	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	ND		
Perfluoroheptanoic acid (PFHpA)	ppt	NA	AN	(2)	Range Average	ND	ND	ND	ND	ND		
Perfluorobutanesulfonic acid (PFBS)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluorodecanoic acid (PFDA)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluorododecanoic acid (PFDoA)	ppt	NA	N	(2)	Range	ND	ND	ND	ND	ND		
Perfluorohexanoic Acid (PFHxA)	ppt	NA	NA	(2)	Range	22-23	2.6	2.7 - 3.0	22-24	2.5-2.6		
Perfluorotetradecanoic acid (PFTeDA)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND .		
Perfluorotridecanoic acid (PFTrDA)	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	ND		
Perfluoroundecanoic acid (PFUnA)	ppt	NA.	NA	(2)	Range Average	ND	ND	ND	ND	ND		
4,8-dioxa-3H-perfluorononanoate (ADONA)	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	ND		
F-53B Major (11CI-PF3OUdS)	ppt	NA.	NA	(2)	Range Average	ND	ND	ND	ND	ND		
F-53B Minor (9CI-PF3ONS)	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	ND		
GenX (HFPO-DA)	ppt	NA	NA	(5)	Range Average	ND	ND	ND	ND	ND		
N-ethyl Perfluorooctanesulfonamidoacetic acid	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	N		
N-methyl Perfluorooctanesulfonamidoacetic acid	ppt	NA.	NA	(2)	Range Average	ND	ND	ND	ND	ND		
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)	FAS) Extended	d List (r)										
10:2 Fluorotelomer sulfonic acid	ppt	NA	NA	(2)	Range	N	ND	ND	ND	N		ndustrial chemical factory discharges; runoff/leaching from landfills:
4:2 Fluorotelomer sulfonic acid	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	N		used in fire-retarding foams and various industrial processes
6:2 Fluorotelomer sulfonic acid	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	ND		
8:2 Fluorotelomer sulfonic acid	ppt	NA	NA	(2)	Range Average	ND	ND	ND	ND	N		
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ppt	NA	¥	(2)	Range Average	ND	ND	ND	ND	ND		

		State and		State				Treatment	Treatment Plant Effluent †	nt †		
Parameter	Units	Standards MCL *	PHG	(RL)	Average	Diemer	Jensen Plant	Mills	Skinner	Weymouth	Distribution	Major Sources in Drinking Water
N-ethylperfluorooctane sulfonamidoethanol	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	N		
N-methylperfluorooctane sulfonamide (NMeFOSA)	ppt	NA	NA	(2)	Range	ND	NO	ND	ND	ND		noustrial chemical factory discharges; runoffleaching from landfills; used in fire-retarding foams and various industrial processes
N-methylperfluorooctane sulfonamidoethanol	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluoro-2-methoxyacetic acid	ppt	NA	NA.	(5)	Range	ND	ND	ND	ND	ND		
Perfluoro-2-methoxyethoxyacetic acid	ppt	NA	Z,	(5)	Range	ND	ND	ND	ND	ND		
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	ppt	NA	NA	(5)	Range	ND	ND	ND	ND	ND		
Perfluoro-4-isopropoxybutanoic acid	ppt	NA	NA.	(5)	Range	ND	ND	ND	ND	ND		
Perfluoro-4-methoxybutanoic acid (PFMOBA)	ppt	NA	NA	(5)	Range	ND	ND	ND	ND	ND		
Perfluorobutanoic acid (PFBA)	ppt	NA	NA	(5)	Range	ND	ND	ND	N	NB		
Perfluorodecanesulfonic acid (PFDS)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluorododecanesulfonic acid (PFDoS)	ppt	NA	NA	(2)	Range	ND	ND	ND ND	ND	ND		
Perfluoroheptanesulfonic acid (PFHpS)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluorohexadecanoic acid (PFHxDA)	ppt	NA	N N	(2)	Range	ND	ND	ND	ND	N		
Perfluorononanesulfonic acid (PFNS)	ppt	NA	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluorooctane sulfonamide (PFOSA)	ppt	NA.	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluoropentanesulfonic acid (PFPeS)	ppt	NA.	NA	(2)	Range	ND	ND	ND	ND	ND		
Perfluoropentanoic acid (PFPeA)	ppt	NA	A	(2)	Range	ND	N	ND	ND	ND		
Nafion Byproduct 1	ppt	NA.	NA	(2)	Range	ND	ND	ND	ND	ND		
Nafion Byproduct 2	ppt	NA	NA	(5)	Range	ND	ND	ND	ND	N		
Perfluoro (3,5,7,9-tetraoxadecanoic) acid	ppt	NA	NA	(5)	Range Average	ND	ND	ND	ND	ND		
Perfluoro (3,5,7-trioxaoctanoic) acid	ppt	NA	NA	(5)	Range Average	N	ND	ND	ND	ND NO	A THE REAL PROPERTY.	
Perfluoro (3,5-dioxahexanoic) acid	ppt	NA.	AN	(5)	Range	ND	ND	ND	ND	ND		
Miscellaneous (s)					- Bereit							
	ppm	NA	NA	Ä	Range	1.2 - 7.7	1.1 - 3.5	0.2 - 2.4	0.4 - 5.6	1.1-7.3		Elemental balance in water; affected by temperature, other factors
Corrosivity (as Aggressiveness Index) (u)	A	NA	NA	Ä	Range	-	12.1 - 12.3	11.9 - 12.0	12.0	12.1-12.2		Elemental balance in water, affected by temperature, other factors
Corrosivity (as Saturation Index) (v)	SI	NA	¥	NA A	Range	0.33 - 0.52	0.28 - 0.46	0.20 - 0.25	0.20 - 0.28	0.34 - 0.38	-	Elemental balance in water, affected by temperature, other factors
рН	pH Units	A	Ā	N N	Range	Ch	8.4 - 8.5	8.6	8.1-8.2	8.5		NA
Radon	pCi/L	NA	NA	6	Range	ND	ND S	ND	ND -	NO		Gas produced by the decay of naturally-occurring uranium in soil
Total Dissolved Solids, Calculated (TDS) (w)	ppm	1,000	NA	ž	Range	279-611	257 - 289	163 - 292	314 - 574	246 - 606	70.00	Runoff/leaching from natural denosits
Ethyl-tert-butyl ether (ETBE)	ppb	Ä	NA	ω	Range	ND SO	N N	N 22	ND 390	ND 352		Used as gasoline additive
tert - Amyl-methyl ether (TAME)		NA	NA	ω	Range	ND	ND	ND	ND	ND		Used as gasoline additive
	ppo	NA.										

		17	21	20	12	16	Average	1.0	35	00	add	3	Total IIII alonie dianes (1111 Wis)
Byproduct of drinking water chlorination	n	9.7 - 30	12-44	8.6 - 33	8.2 - 39	13 - 21	Range	10	No	80	noh	(w)	Total Tabalamathanas (TTUMs)
Major Sources in Drinking Water	Distribution System	Weymouth Plant	Skinner Plant	Mills Plant	Jensen Plant	Diemer Plant	Average	(RL)	PHG	Standards MCL [‡]	Units		Parameter
		nt †	Plant Effluer	Treatment F			Range	State		State and			

DEFINITION OF TERMS AND FOOTNOTES

† As a wholesale water system, Metropolitan provides its member agencies with relevant source water information and monitoring results that they may need for their annual water quality report. Metropolitan's compliance with state or federal regulations is determined at the treatment plant effluent and/or distribution system locations and source water or plant influent locations per frequency stipulated in Metropolitan's State-approved monitoring plan, 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 was in compliance with all primary and secondary drinking water regulations for the current monitoring period.

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

2. Reference: Standard Methods (SM2330)		In n = Highly aggressive water Reterence: ANSI/AW	essive water: Al ≤ 1	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)	(u)
	cium carbonate	r18 different PFAS. r18 reported under EPA 537.1. purposes. Negative CCPP = corrosive; tendency to dissolve ca	esearch method for FAS including 18 PF d for informational posit scale on pipes.	Data are from two analytical methods based on EPA 537.1 and a research method for 18 different PFAS. Data are from a research method that can detect all 45 different PFAS including 18 PFAS reported under EPA 537.1. Data are from a research method that can detect all 45 different PFAS including 18 PFAS reported under EPA 537.1. Data are from monitoring of constituents and are provided for informational purposes. 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)	(3) (3) (3) (3) (3)
under Miscellancus.	The interior of	ampies conserved trained bet Jean (Chain and October).	oming composite s	under "Miscellaneous".	(4)
Compliance With coor (meshod secondar) MucLis based on KAA. Both Defined and a testing the analysis returned to compliance with coor (meshod secondar) MucLis based on KAA. Both Defined and a few many first provided the secondary filter and the se	the 12-month st	pensen treatment plants returned to compilative during	Both Diemer and J	Compliance with oper threshold secondary with is based on KAA.	(0)
	nt.	sedance occurred in the Skinner treatment plant efflue	RAA. No MCL exce	Compliance with the State and Federal bromate MCL is based on RAA. No MCL exceedance occurred in the Skinner treatment plant effluent.	(2)
specific to each of the treatment plant effluents.	ce connections	ite. Plant core locations for TTHM and HAA5 are serv	LRAA, as appropriate	Data are from samples collected in 2017 for the required thermal monitoring (2017-2019) until the hext samples are collected. 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.	(E)
				occasional fluoride levels below 0.6 mg/L	1 1
Metropolitan was in combilance with all provisions of the State's fundation system conductions and systems were temporally out of service during treatment plants shuddowns and/or maintenance work in 2019, resulting in	of service du	quirements. Fluoride feed systems were temporarily of	oridation system rea	established to the control of the co	8
to 22 is apprized at plant afficients	incine under Ti	cted in 2020. Current monitoring results are from 201	samples are collec	Data reported once every nine-year compliance cycle until the next samples are collected in 2020. Current monitoring results are from 2011.	9
	t plant effluent.	ard MCL exceedance occurred in the Jensen treatmen	o secondary standa	Compliance with the State MCL for aluminum is based on RAA. No secondary standard MCL exceedance occurred in the Jensen treatment plant effluent.	(f)
Data are from samples collected in 2018 for the required triennial monitoring (2017-2019) except for 1,2,3-Trichloropropane which began monitoring in 2018. 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.	onitoring in 2018 use when treati)19) except for 1,2,3-Trichloropropane which began m)th the treatment technique requirements regarding its	nonitoring (2017-20 as in compliance wi	Data are from samples collected in 2018 for the required triennial monitoring (2017-2019) except for 1,2,3-Trichtoropropane which began monitoring in 2018. Metropolitan uses acrylamide for water treatment processes and was in compliance with the treatment technique requirements regarding its use when treating the compliance with the treatment technique requirements regarding its use when treatment and the compliance with the treatment technique requirements regarding its use when treatment and the compliance with the treatment technique requirements regarding its use when treatment technique requirements regarding its use when the compliance with the treatment technique requirements required to the compliance with the treatment technique requirements required to the compliance with the treatment technique requirements required to the compliance with the treatment technique requirements required to the compliance with the treatment technique requirements required to the compliance with the treatment technique requirements required to the compliance with the treatment technique requirements required to the compliance with the treatment technique requirements required to the compliance with the treatment technique requirements required to the compliance with the treatment of the compliance with the complianc	(a) (f)
monitors HPC bacteria to ensure treatment process efficacy.	ia to ensure trea	alysis was required. Metropolitan monitors HPC bacte	als, so no HPC ana	All distribution system samples had detectable total chlorine residuals, so no HPC analysis was required. Metropolitan	(e)
The MCL for E, Coll is based on any or the following conditions: Colliform-positive fourne and repeat samples with either or mem positive for E, coll, it allure to analyze a repeat sample following an E, coll-positive fourne and repeat samples with either to analyze a repeat sample following an E, coll-positive fourne and peat samples with either to analyze a repeat sample following an E, coll-positive fourne	E. COII, Tallure	ine and repeat samples with either of them positive ro	billorm-positive rout	ne MCL for E. coli is based on any of the following conditions: Co	(d)
	1	bution system.	uents and the distrit	Compliance is based on monthly samples from treatment plant effluents and the distribution system.	(c)
Metropolitan monitors turbidity at the Cir-E locations using continuous and grab samples. Lurbidity, a measure of cloudiness of the water, is an indicator of treatment performance. Lurbidity was in compliance with the Life standard of less than 5 NTU. Per the State's Surface Water Treatment Rule, treatment techniques that femove or inactivate Glardia cysts will also remove HPC bacteria, Legionella, and viruses. Legionella and virus monitoring is not required.	an indicator of t	es. Turbidity, a measure of cloudiness of the water, is nactivate <i>Giardia</i> cysts will also remove HPC bacteria,	us and grab sample NTU. es that remove or in	Metropolitan monitors turbidity at the CFE locations using continuous and grab samples. Turbidity a measure of coudiness of the water, its an indicator of treatment performance. Turbidity was in compliance with standard and the secondary drinking water standard of less than 5 NTU. Standard and the secondary drinking water standard of less than 5 NTU. Per the State's Surface Water Treatment Rule, treatment techniques that remove or inactivate Giardia cysts will also remove HPC bacteria, Legionalia, and viruses. Legionalia and virus monitoring is not required.	(b)
					Footnotes
microSiemen per centimeter; or micromho per centimeter (µmho/cm)	µS/cm	parts per trillion or nanograms per liter (ng/L)	ppt	calculated as an average of all samples collected within a 12-month period	
of a contaminant in drinking water	7	parts per million or milligrams per liter (mg/L)	ppm	is the highest of all Locational Running Annual Averages	
Treatment Technique is a required process intended to reduce the level	1	parts per billion or micrograms per liter (µg/L)	ppb		LRAA
Threshold Odor Number	TON	Public Health Goal	PHG		HPC
Total Dissolved Solids	TDS	picoCuries per Liter	pCi/L	O1	HAA5
State Water Resources Control Board	SWRCB	Nephelometric Turbidity Units	UTU		EPA
Saturation Index (Langelier)	S	Notification Level to SWRCB	Z.		DLR
Reporting Limit	ZD.	Not Detected at or above DLR or RI	53		CEL C
once or twice appliedly		Not Applicable	NA	Cardin Carbonate Freephagon Foteliga	CCET
Results pased on millimin and maximum values, range and average	Kaliye	Maximum Residual Districtorin Level	MRDIO		Carry
within a 12-month period)	Million Fibers per Liter	MFL		Average
Annual Averages calculated as an average of all the samples collected		Maximum Contaminant Level Goal	MCLG	Action Level	AL
Kunning Annual Average, nignest KAA is the nignest of all Kunning	KAA	Maximum Contaminant Level	MCL	Aggressiveness Index	A

2019 Water Quality Report to Member Agencies—The Metropolitan Water District of Southern California **Treatment Plant Influents**

				Treatme	ont Plant	Treatment Plant Influent †		
Parameter	Units	Average	Diemer	Jensen	Mills	Skinner	Weymouth	Major Sources in Drinking Water
		c	Plant	Plant	Plant	Plant	Plant	
Percent State Water Project	%	Range	0 - 100	100	100	6 - 100	0 - 100	NA .
I GIOGIII OIGIG FFAIGI I IOJGGI	/0	Average	64	100	100	55	68	
COMPLIANCE MONITORING PARAMETERS	RAMETERS							· · · · · · · · · · · · · · · · · · ·
Microbiological	OFFICE		1 200	2 200	200	2000		
Total Coliform Bacteria	/100 mL	Median	320	620	150	490	240	Naturally present in the environment
Escherichia coli (E. coli)	CFU or MPN	Range	ND-3	ND-2	ND - 4	ND - 23	ND - 4	Human and animal fecal waste
	/100 IUF	Median			-	7	1	CONSTRUCTION OF THE STATE OF TH
Chemical								
Alkalinity (as CaCO ₃)	ppm	Range	58 - 130	74 - 80	45 - 78	76 - 125	22	Runoff/leaching of natural deposits; carbonate, bicarbonate,
	P. P. C.	Highest RAA	113	76	71	117	114	hydroxide, and occasionally borate, silicate, and phosphate
Fluoride	ppm	Range	0.1 - 0.3	0.1 - 0.2	0.1	0.1 - 0.3	0.1 - 0.3	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Total Organic Carbon (TOC)	maa	Range	2.7 - 4.1	2.7 - 3.3	2.6 - 5.0	2.8 - 4.8	2.6 - 4.2	Various natural and man-made sources
	The same of the sa	Hignest KAA	3.2	3.0	3.4	3.2	3.2	
OTHER PARAMETERS	1					明確観的なな	自然 國際	
Aluminum	ppb	Range Average	110	100	240	ND	110	Residue from water treatment process; runoff/leaching from natural deposits
Antimony	ppb	Range Average	ND	ND N	ND	ND	ND	Petroleum refinery discharges; fire retardants; solder; electronics
Arsenic	ppb	Range Average	ND	2.0	ND	ND	ND	Runoff/leaching from natural deposits, glass, and electronics production wastes
Barium	ppb	Range Average	D	ND	ND	ND	ND	Oil and metal refineries discharges; runoff/leaching from natural deposits
Beryllium	ddd	Range Average	D	ND	ND	ND	ND	Discharge from metal refineries, aerospace, and defense industries
Boron	ppb	Range Average	120	160	120	130	120	Runoff/leaching from natural deposits; Industrial wastes
Cadmium	ppb	Range	ND	ND	ND	S	S	Internal corrosion of galvanized pipes; discharge from electroplating, industrial factories, and metal refineries; runoff from waste batteries and paints; runoff/leaching from natural deposits
Chromium	ppb	Range Average	ND	ND	ND	ND	ND	Discharge from steel and pulp mills; runoff/leaching from natural deposits
Chromium VI	ppb	Range Average	ND	ND	N	N	N	Runoff/leaching from natural deposits; Industrial wastes
Copper	ppm	Range Average	ND	ND	ND	ND	ND	Internal corrosion of household pipes; runoff/leaching from natural deposits; leaching from wood preservatives
Cryptosporidium	oocysts/10 L	Range Average	ND	ND	ND	ND	ND	Human and animal fecal waste
Giardia	cysts/10 L	Range Average	ND	ND	ND	ND .	ND	Human and animal fecal waste
Hardness (as CaCO ₃)	ppm	Range Average	78 - 284 147	102 - 124 115	54 - 98 78	14 - 264 166	84 - 282 140	Runoff/leaching from natural deposits; sum of polyvalent cations, generally magnesium and calcium present in the water
Iron	ppb	Range Average	127	103	229	N N	130	Runoff/leaching from natural deposits; industrial wastes

2019 Water Quality Report to Member Agencies—The Metropolitan Water District of Southern California Treatment Plant Influents

		Range		Treatmo	Treatment Plant Influent †	Influent †		
rarameter	Units	Average	Diemer	Jensen	Mills	Skinner	Weymouth	Major Sources in Drinking Water
Lead	daa	Range	5	S	3	25	5	Internal corrosion of household water plumbing systems; industrial
	800	Average				1000		manufacturers' discharge; runoff/leaching from natural deposits
Manganese	ppb	Range Average	ND	ND	ND	ND	ND NO	Runoff/leaching from natural deposits
Mercury	ppb	Range Average	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits; factory discharge; landfill runoff
Nickel	ppb	Range	N N	N N	ND	N	ND NO	Runoff/leaching from natural deposits: discharge from metal factories
	3.00	Average		AVE.	- Constant	25.000	25000	
Perchlorate	ppb	Range Average	ND	ND	N	N	ND	Industrial waste discharge
На	nH I Inite	Range	7.9 - 8.5	7.4 - 7.9	7.5 - 8.3	7.6 - 8.4	7.9 - 8.4	No.
	00	Average	8.1	7.7	7.9	8.1		
Selenium	daa	Range	N	ND	CN	S	NO	Refineries, mines, and chemical waste discharge; runoff from
	770	Average	i	ē	20	ā		livestock lots
Specific Conductance	uS/cm	Range	345 - 962	420 - 479	223 - 526	478 - 938	361 - 960	Substances that form ions is water assembles in the
	P (1)	Average	558	456	372	638	544	Substances that form forts in water, seawater influence
Silver	ppb	Range	ND	ND	ND	ND	ND	Industrial discharges
	100	Pange		2 600 2	The state of the s			looking from our management distribution for
Thallium	ppb	Range Average	ND	ND	ND	ND	ND	Leaching from ore processing; discharge from electronics, glass, and pharmaceutical factories
Turbidity	NTI	Range	0.6 - 2.6	0.6 - 4.9	0.3 - 8.7	0.3 - 1.6	0.4 - 3.1	Poil supplie
	NIO	Average	1.1	1.4	1.3	0.8		SOILIUNOTT
Vanadium	ppb	Range Average	ND	ND	ND	ND	1000	Naturally-occurring; industrial waste discharge
Zinc	ppm	Range	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits; industrial wastes
		·						

DEFINITION OF TERMS AND FOOTNOTES

but below the State DLR are reported as ND in this report; these data are available upon request. stipulated in Metropolitan's State-approved monitoring plan. MCLs, PHGs, and state DLRs are included in the Treatment Plant Effluent Report. Data above Metropolitan's laboratory reporting limit (RL) Metropolitan's compliance with state or federal regulations is determined at the treatment plant effluent and/or distribution system locations and source water or plant influent locations per frequency † As a wholesale water system, Metropolitan provides its member agencies with relevant source water information and monitoring results that they may need for their annual water quality report.

Definition of Terms

PHG	UTU	ND	NA	MPN	MCL	DLR	CFU	CaCO ₃	Average
Public Health Goal	Nephelometric Turbidity Units	Not Detected at or above DLR or RL	Not Applicable	Most Probable Number	Maximum Contaminant Level	Detection Limits for Purposes of Reporting	Colony-Forming Units	Calcium Carbonate	Result based on arithmetic mean
	μS/cm			Range			RAA	ppm	ppb
	microSiemen per centimeter; or micromho per centimeter (µmho/cm)	once or twice annually	values are the same if a single value is reported for samples collected	Results based on minimum and maximum values; range and average	of the all samples collected within a 12-month period	Running Annual Averages calculated as an average	Running Annual Average; highest RAA is the highest of all	parts per million or milligrams per liter (mg/L)	parts per billion or micrograms per liter (µg/L)

Parameter	Units /	Range		ו אוא		Source Water †	er+			
r ar ameter		1	7	1 -1-			The same of the sa			
		Average	Valley Lake	Skinner	Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	Major Sources in Drinking Water
Percent State Water Project	%	Range	100	10 - 79 56	0	0	100	100	100	NA
ORGANIC CHEMICALS										
	ppt	Range	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial and agrichemical factories; byproduct of producing other compounds and pesticides;
2,4,5-TP (Silvex)	ppb	Range	N N	N N	ND N	N N	No.	ND	S	Residue of banned herbicide
2,4-D		Range	ND	ND	ND	ND	ND	ND	N	Runoff from herbicide used on row crops, rangeland, lawns,
Alachlor	ppb	Range	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on row crops
Atrazine	ppb	Range Average	ND	ND	ND	ND	ND	ND	N	Runoff from herbicide used on row crops and along railroad and highway right-of-ways
Bentazon	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on beans, peppers, corn, peanuts, rice, and ornamental grasses
Benzo(a)pyrene	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Leaching from water storage tank linings and distribution lines
Carbofuran	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Leaching of soil fumigant used on rice, alfalfa, and grape vineyards
Chlordane	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Residue of banned insecticide
Dalapon	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used on right-of-ways, and crops and landscape maintenance
Di(2-ethylhexyl)adipate	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from chemical factories
Di(2-ethylhexyl)phthalate	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from rubber and chemical factories; inert ingredient in pesticides
Dibromochloropropane (DBCP)	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Banned nematocide that may still be present in soils due to runoff/leaching
Dinoseb	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND F	Runoff from herbicide used on soybeans, vegetables, and fruits
Dioxin (2,3,7,8-TCDD)	ppq	Range Average	ND	ND	ND	ND	ND	ND	ND	Waste incineration emissions; chemical factory discharge
Diquat	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used for terrestrial and aquatic weeds
Endothall	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide used for terrestrial and aquatic weeds
Endrin	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Residue of banned insecticide and rodenticide
Ethylene Dibromide (EDB)	ppt	Range	ND NO	ND	ND	ND	ND	ND	N	Petroleum refinery discharges; underground gas tank leaks; banned nematocide that may be still present in soils due to runoff and leaching
Glyphosate	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff from herbicide use
Heptachlor	ppt	Range Average	ND	ND	ND	ND	N	N	ND	Residue of banned insecticide
Heptachlor Epoxide	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Breakdown product of heptachlor
Hexachlorobenzene	ppb /	Range Average	N	ND	ND	ND	ND	N	ND L	Discharge from metal refineries and agrichemicals factories; wastewater chlorination reaction byproduct

						100				
		Range			S	Source Wat	iter †			
Parameter	Units	Average	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	Major Sources in Drinking Water
Hexachlorocyclopentadiene	ppb	Range	ND	ND	ND	ND	ND	ND	ND	Discharge from chemical factories
Lindane	ppt	Range	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from insecticide used on cattle, lumber, and cardens
Methoxychlor	ppb	Range	ND	ND	ND	ND	ND	N	N	Runoffleaching from insecticide uses on fruits, vegetables, alfalfa, and livestock
Molinate (Ordram)	ppb	Range	ND	dN	ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on rice
Oxamyl (Vydate)	ppb	Range	ND	ND	ND	N N	ND	ND	ND	Runoff/leaching from insecticide uses
Pentachlorophenol	ppb	Range Average	ND	ND	ND	ND	ND	ND	N	Discharge from wood preserving factories other insecticidal and herbicidal uses
Picloram	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Herbicide runoff
Polychlorinated Biphenyls (PCBs)	ppt	Range Average	ND	ND	ND	ND	ND	ND	N	Runoff from landfills; discharge of waste chemicals
Simazine	ppb	Range Average	ND	ND	ND	ND	ND	ND	N	Herbicide runoff
Thiobencarb	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from herbicide used on rice
Toxaphene	ppb	Range	ND	N	ND	ND	ND	ND	N	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Compounds										
1,1,1-Trichloroethane	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Metal degreasing site discharge; manufacture of food wrappings
1,1,2,2-Tetrachloroethane	ppb	Range Average	ND	ND	ND	ND	ND	dN	ND	Discharge from industrial and agrichemical factories; solvent used in production of TCE, pesticides, varnish, and lacquers
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ppm	Range Average	ND	ND	dN	ND	ND	DN	ND	Discharge from metal degreasing sites and other factories; dry cleaning solvent; refrigerant
1,1,2-Trichloroethane	ppb	Range Average	ND	ND	dN	ND	ND	ND	ND	Discharge from industrial chemical factories
1,1-Dichloroethane	ppb	Range	ND	ND	ND	ND	N	ND	ND	Extraction and degreasing solvent; furnigant
1,1-Dichloroethylene	ppb	Range Average	N	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
1,2,4-Trichlorobenzene	ppb	Range Average	ND	ND	ND	ND	N	ND	ND	Discharge from textile-finishing factories
1,2-Dichlorobenzene	ppb	Range Average	ND	ND	ND	N	ND	ND	ND	Discharge from industrial chemical factories
1,2-Dichloroethane	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial chemical factories
1,2-Dichloropropane	ppb	Range Average	ND	ND	ND	ND	N	ND	N	Industrial chemical factory discharge; primary component of some furnigants
1,3-Dichloropropene	ppt	Range Average	ND	ND	ND	ND	ND	N	N	Runoff/leaching from nematocide used on croplands
1,4-Dichlorobenzene	ppb	Range Average	N	ND	N	N	ND	ND	ND	Discharge from industrial chemical factories
Benzene	ppb	Range Average	ND	ND	ND	ND	N	ND	ND	Plastics factory discharge; gas tanks and landfill leaching
Carbon Tetrachloride	ppt	Range	ND	ND	ND	ND	ND	N	N	Discharge from chemical plants and other industrial waste

				00	Course sagrers					
		Range			S	Source Wat	ater T			
Parameter	Units	Average	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	Major Sources in Drinking Water
cis -1,2-Dichloroethylene	ppb	Range Average	ND	ND	ND	ND	ND	ND	N	Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation
Dichloromethane (Methylene Chloride)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from pharmaceutical and chemical factories
Ethylbenzene	ppb	Range Average	ND	ND	ND	N	ND	ND	ND	Petroleum refinery discharge; industrial chemical factories
Methyl-tert-butyl ether (MTBE)	ppb	Range	ND	ND	ND	N N	ND	ND	ND	Gasoline discharge from watercraft engines
Monochlorobenzene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from industrial and agrichemical factories, and dry cleaners
Styrene	ppb	Range Average	ND	ND	ND	ND	ND	dN	ND	Rubber and plastics factories discharge; landfill leaching
Tetrachloroethylene (PCE)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from factories, dry cleaners, and auto shops
Toluene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from petroleum and chemical refineries
trans-1,2-Dichloroethylene	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Industrial chemical factory discharge; byproduct of TCE and PCE biodegradation
Trichloroethylene (TCE)	ppb	Range Average	ND	ND	ND	ON	ND	ND	ND	Discharge from metal degreasing sites and other factories
Trichlorofluoromethane (Freon-11)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Industrial factory discharge; degreasing solvent; propellant
Vinyl Chloride	ppt	Range Average	ND	ND	ND	ND	ND	ND	ND	Leaching from PVC piping; plastic factory discharge; byproduct of TCE and PCE biodegradation
Xylenes	ppm	Range	ND	ND	ND	ND	ND	ND	N	Discharge from petroleum and chemical refineries; fuel
INORGANIC CHEMICALS		, is of age								CORCIA
Aluminum	ppb	Range Average	ND	ND	ND	ND	100	ND	200	Residue from water treatment process; runoff/leaching from natural deposits
Antimony	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Petroleum refinery discharges; fire retardants; solder; electronics
Arsenic	ppb	Range Average	2.4	ND	2.3	2.2	2.0	ND	ND	Runoff/leaching from natural deposits, glass and electronics production wastes
Asbestos (b)	MFL	Range Average	ND	ND	ND	ND	ND	ND	ND	Asbestos cement pipes internal corrosion;runoff/leaching from natural deposits
Barium	ppb	Range Average	ND	ND	115	115	ND	ND	ND	Oil and metal refineries discharge;runoff/leaching from natural deposits
Beryllium	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from metal refineries, aerospace, and defense industries
Cadmium	ppb	Range	N	ND	ND	N	ND	ND	N	Internal corrosion of galvanized pipes; discharge from electroplating, industrial factories, and metal refineries; runoff from waste batteries and paints: runoffleaching from natural
) veriage								deposits
Chromium	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from steel and pulp mills; runoffleaching from natural deposits
Copper	ppm	Range Average	ND	ND	ND	ND	ND	ND	ND	Internal corrosion of household pipes; runoff/leaching from natural deposits; leaching from wood preservatives
Cyanide	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Discharge from steel/metal, plastic, and fertilizer factories
Fluoride	ppm	Range	0.1	0.1 - 0.2	0.3	0.3	0.1	0.1	ND T	Runoff/leaching from natural deposits; discharge from fertilizer and aluminum factories
				700000						

		-								
		Range			S	Source Wat	iter †			
Parameter	Units	Average	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	Major Sources in Drinking Water
Lead	ppb	Range	ND	ND	ND	ND	ND	N	S	Internal corrosion of household water plumbing systems; industrial manufacturers' discharge; runoff/leaching from
Mercury	ppb	Range Average	ND	ND	ND	ND	N	ND	ND	Runoffleaching from natural deposits; factory discharge; landfil runoff
Nickel	ppb	Range Average	ND	ND	ND	N N	ND	ND	ND	Runoff/leaching from natural deposits; discharge from metal factories
Nitrate (as Nitrogen)	ppm	Range Average	ND	ND	ND	N	0.4	ND	0.4	Runoff and leaching from fertilizer use; leaching from septic tank and sewage; runoff/leaching from natural denosits
Nitrite (as Nitrogen)	ppm	Range Average	ND	dN	ND	ND	ND	ND	ND	Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion
Perchlorate	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Industrial waste discharge
Selenium	ppb	Range Average	ND	D	ND	ND	ND	ND	ND	Refineries, mines, and chemical waste discharge; runoff from livestock lots
Thallium	ppb	Range	ND	ND	ND	ND	ND	ND	ND	Leaching from ore processing; discharge from electronics,
RADIOLOGICALS (c)								The same of the sa		grass, and priamaveducal actories
Gross Alpha Particle Activity	pCi/L	Range Average	ND - 6.1	ND - 3.7	3.3 - 6.3 4.3	ND - 3.2	ND	ND	ND	Erosion of natural deposits
Gross Beta Particle Activity	pCi/L	Range Average	ND - 5.2	ND	5.1 - 5.3 5.2	ND - 12	ND	ND - 5.4	ND - 4.8	Decay of natural and man-made deposits
Radium-226	pCi/L	Range Average	ND	ND	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits
Radium-228	pCi/L	Range Average	ND	ND	ND	ND	ND	ND	N	Runoff/leaching from natural deposits
Combined Radium-226 + 228	pCi/L	Range Average	dN	ND	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits
Strontium-90	pCi/L	Range Average	ND	N	ND	ND	ND	ND	ND	Decay of natural and man-made deposits
Tritium	pCi/L	Range Average	ND	N	ND	ND	ND	ND	ND	Decay of natural and man-made deposits
Uranium	pCi/L	Range	ND	ND - 1.3	2.5 - 3.0	2.8 - 3.3	ND-1.2	1.4 - 2.1	N	Runoff/leaching from natural deposits
AESTHETIC PARAMETERS (d)				i		9.		1.0		
Aluminum	ppb	Range Average	ND	ND	NB	ND	100	ND	200	Residue from water treatment process; runoffleaching from natural deposits
Chloride	ppm	Range Average	67 - 68 68	64 - 82 73	84 - 85 84	89 - 92 90	59	82 - 84 83	29 - 37	Runoff/leaching from natural deposits; seawater influence
Color	Color Units	Range Average	5	5-10	5	2-3	5-10	5	5	Naturally-occurring organic materials
Copper	ppm	Range Average	ND	ND	ND	ND	ND N	ND		Internal corrosion of household pipes; runoffleaching from
Foaming Agents - Methylene Blue Active Substances (MBAS)	ppb	Range Average	ND	R	ND	ND	ND	ND	ND	Municipal and industrial waste discharges
Iron	ppb	Range Average	ND	Ŋ	ND	ND	103	N N	237 F	Runoff/leaching from natural deposits; industrial wastes
Manganese	ppb	Range Average	ND	ND	ND	ND	N	N	N	Runoff/leaching from natural deposits
MTBE	ppb	Range Average	ND	ND	ND	ND	N N	ND	ND	Gasoline discharge from watercraft engines
Odor Threshold	TON	Range	4	7	10	o	2	00	7	Naturally-occurring organic materials

Subset S					00	Sonice Mareis	ers				
Parameter Unite Lack parameter Lake Lake Lake Lake Lake Lake Lake Lake			Danco			S	ource Wat	er†			
Part	Parameter	Units	Average	Diamond	Lake	Lake	Lake	Castaic	Lake	Silverwood	
Conductance Pab Range ND ND ND ND ND ND Average ND Average ND ND ND ND ND ND ND N				Valley Lake	Skinner	Havasu	Mathews	Lake	Perris	Lake	
Conductance µSich Amagine American<	Silver	ppb	Range	ND	ND	ND	ND	N	ND	ND	Industrial discharges
Promount Promount	Openin Condintence	IIS/cm	Range	466 - 494	543 - 686	926 - 939	934 - 961	450 - 468	522 - 526	244 - 300	Substances that form ions in water: seawater influence
Abort Model	Obacilic Collegealica	hozem	Average	480	614	932	948	459	524	272	Cabotalisco filationii folio ili wateri, ocawater iliinurisco
carb Dpbb Range Auerage AID AND	Sulfate	ppm	Range	46 - 50	76 - 113 94	213 - 215	220	52 - 58	40 - 42	14 - 27	-Runoff/leaching from natural deposits; industrial wastes
Salved Saldis (TDS) Pinn Average 260-277 Seg. 127-238 595-258 298-258	Thiobencarb	ppb	Range	N	N	ND	ND	ND	ND	ND	Runoff/leaching from rice herbicide
NTU Rearge 0.3-0.4 0.8-1.2 0.4-1.0 0.7-0.8 1.0-2.1 0.8-3.3 1.6 0.8-1.2 0.8-3.3 0.8-1.2 0.4-1.0 0.7-0.8 1.0-2.1 0.8-3.3 0.8-1.2 0.8-3.3 0.8-1.2 0.4-1.0 0.7-0.8 1.0-2.1 0.8-3.3 0.8-1.2 0.8-3.3 0.8	Total Dissolved Solids (TDS)	ppm	Range Average	260 - 271 266	312 - 394 353	591 - 592 592	596 - 600 598	267 - 269 268	283	138 - 168 153	-Runoff/leaching from natural deposits
Popt Range ND ND ND ND ND ND ND N	Turbidity	NTU	Range Average	0.3 - 0.4	0.8 - 1.2	0.4 - 1.0	0.7 - 0.8	1.0 - 2.1	0.5 - 1.1	0.8 - 3.3 2.1	Soil runoff
RPARAM/BIERS CFU or MPN Range 5-1,400 10-9800 12-31,000 6-4,800 NC 96-3,700 34-3,400 NC 10-9800 NC NC NC NC NC NC NC	Zinc	ppm	Range	ND	ND	ND	ND	ND	ND	dN	Runoff/leaching from natural deposits; industrial wastes
CFU or MPN Range 5-1,400 10-9,800 12-31,000 6-4,800 MC 310 200 MC 310 320 MC	OTHER PARAMETERS		Agordayo								
CtrO mm/Nu Range 5-1,000 12-31,000 6-3,800 Nc 36-3,700 34-3,400 Midlinerials CtrO mm/Nu Median Midlinerials Nilo	Microbiological										
It Minerals CFU or MIN Median ND ND ND ND ND ND ND N	Total Coliform Bacteria	/100 mL	Median	130	340	1,200	230	NC	310	200	Naturally present in the environment
(as CaCO ₃) ppm Range Average Averag	Escherichia coli (E. coli)	CFU or MPN /100 mL	Range	ND-2	ND - 2	N	ND - 200	NC	ND - 82	ND - 12	-Human and animal fecal waste
V(as CaCO ₃) ppm Range Average Range R	General Minerals										
Ppm Range 24-25 33-39 71-72 63-68 26-28 23-24 14-15 Average 24-24 36 72 66 27 26 24 14-15 Average 109-113 137-170 271-277 257-277 141-117 107-109 64-72 Imm Average 109-113 137-170 271-277 257-277 141-117 107-109 64-72 Imm Average 111 154 274 267 277 141-117 107-109 64-72 Imm Average 111-12 14-17 25 26 12-13 13 74-8.1 Average 32-35 32-37 4.5 46-4.7 27-28 3.4-3.5 1.7-22 Imm Average 3.4 3.4 3.4 2.0 Average 3.4 3.4 3.4 46-4.7 2.7-28 3.4-3.5 1.7-22 Imm Average 47-51 55-69 86-88 92-96 47-48 60-61 23-30 Average Average ND ND ND ND ND ND ND N	Alkalinity (as CaCO ₃)	ppm	Range	77 - 82	94	130 - 131	110 - 128	76 - 77 76	83 - 85	56 - 58	hydroxide and occasionally borate, silicate, and phosphate
Average 2.4 3.6 27 265 277 14 - 117 107 - 109 64 - 72 68 27 271	Calcium	maa	Range	24 - 25	33 - 39	71 - 72	63 - 68	26 - 28	23 - 24	14 - 15	-Runoff/leaching from natural deposits
Ppm Average 111 154 274 267 116 108 68 68 68 68 68 68 68			Range	109 - 113	137 - 170	271 - 277	257 - 277	114 - 117	107 - 109	64 - 72	Runoff/leaching from natural deposits; sum of polyvalent
Sajum Sajum Sajum Sange 11-12 14-17 25 26 12-13 13 74-8.1	Hardness (as CaCO ₃)	ppm	Average	111	154	274	267	116	108	68	- cations, generally magnesium and calcium present in the water
sium ppm Range Average Average Average Average Average Pulated Contaminants 3.2-3.5 3.2-3.7 4.5 4.6-4.7 2.7-2.8 3.4-3.5 1.7-2.2 gulated Contaminants Ppm Range Average Average Average Average Pulated Contaminants 4.5 4.6-4.7 2.7-2.8 3.4-3.5 1.7-2.2 gulated Contaminants Ppm Range Average Average Average Average Pulated Contaminants ND	Magnesium	ppm	Range	11 - 12 12	14 - 17 16	25	26	12 - 13 12	13	7.4 - 8.1	-Runoff/leaching from natural deposits
Marriage Marriage	Potassium	ppm	Range	3.2 - 3.5	3.2 - 3.7	4.5	4.6 - 4.7	2.7 - 2.8	3.4 - 3.5	1.7 - 2.2	-Salt present in the water; naturally-occurring
gulated Contaminants Average 150 130 120 120 160 160 120 nium VI ppb Range Average ND	Sodium	ppm	Range	47 - 51	55 - 69	86 - 88	92 - 96	47 - 48	60 - 61	23 - 30	-Salt present in the water; naturally-occurring
Ppb Range 150 130 120 120 160 160 120 100 120 120 160 160 120 100 100 12	Unregulated Contaminants						1 2 2 2 3		THE TRANSPORT		
VI Ppb Range ND ND ND ND ND ND ND N	Boron	ppb	Range	150	130	120	120	160	160	120	Runoff/leaching from natural deposits; industrial wastes
fluoromethane (Freon-12) ppb Range Average Average Average ND	Chromium VI	ppb	Range	ND	ND	ND	ND	ND	ND	ND	Runoffleaching from natural deposits; discharge from industrial waste factories
butyl ether (ETBE) ppb Range Average Average alcohol (TBA) ND	Dichlorodifluoromethane (Freon-12)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Industrial waste discharge
Pacific Paci	Ethyl-tert-butyl ether (ETBE)	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Used as gasoline additive
Ppb Range ND ND ND ND ND ND ND N	tert-Amyl-methyl ether (TAME)	ppb	Range Average	ND	ND	ON	ND	ND	ND	ND	Used as gasoline additive
ppb Range ND ND ND ND ND ND ND ND ND	tert-Butyl alcohol (TBA)	ppb	Range Average	ND	ND	dN	ND	ND	ND	ND	MTBE breakdown product; used as gasoline additive
	Vanadium	ppb	Range Average	ND	ND	ND	ND	ND	ND	ND	Naturally-occurring; industrial waste discharge

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		Rango			S	Source Water †	er+			
Parameter	Units	Average	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	Major Sources in Drinking Water
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) List (e)	S) List (e)									
Perfluorooctanoic Acid (PFOA)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	Industrial chemical factory discharges; runoff/leaching from
Perfluorooctanesulfonic Acid (PFOS)	ppt	Range Average	NC	ND	NC	N	ND	ND	ND	processes
Perfluorononanoic acid (PFNA)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
Perfluorohexanesulfonic acid (PFHxS)	ppt	Range Average	NC	DN	NC	ND	ND	ND	ND	
Perfluoroheptanoic acid (PFHpA)	ppt	Range Average	NC	DN	NC	ND	ND	ND	ND	
Perfluorobutanesulfonic acid (PFBS)	ppt	Range Average	NC	DN	NC	ND	ND	ND	ND	
Perfluorodecanoic acid (PFDA)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
Perfluorododecanoic acid (PFDoA)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
Perfluorohexanoic Acid (PFHxA)	ppt	Range Average	NC	2.2 - 2.6 2.4	NC	ND - 12 6.0	2.5	3.4 - 3.8	2.9 - 3.0 3.0	
Perfluorotetradecanoic acid (PFTeDA)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
Perfluorotridecanoic acid (PFTrDA)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
Perfluoroundecanoic acid (PFUnA)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
4,8-dioxa-3H-perfluorononanoate (ADONA)	ppt	Range Average	NC	ND	NC	ND	ND	dN	ND	
F-53B Major (11Cl-PF3OUdS)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
F-53B Minor (9CI-PF3ONS)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
GenX (HFPO-DA)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
N-ethyl Perfluorooctanesulfonamidoacetic acid	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
N-methyl Perfluorooctanesulfonamidoacetic acid	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Extended List (f)	S) Extended	List (f)								
10:2 Fluorotelomer sulfonic acid	ppt	Range Average	NC	N	NC	ND	N	ND	ND	Industrial chemical factory discharges; runoff/leaching from landfills; used in fire-retarding foams and various industrial
4:2 Fluorotelomer sulfonic acid	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	processes
6:2 Fluorotelomer sulfonic acid	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
8:2 Fluorotelomer sulfonic acid	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
N-ethylperfluorooctane sulfonamidoethanol	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
N-methylperfluorooctane sulfonamide (NMeFOSA)	ppt	Range Average	NC	8	NC	ND	8	8	N	

		Range			S	Source Water †	ter+			
Parameter	Units	Average	Diamond Valley Lake	Lake Skinner	Lake Havasu	Lake Mathews	Castaic Lake	Lake Perris	Silverwood Lake	Major Sources in Drinking Water
N-methylperfluorooctane sulfonamidoethanol	ppt	Range	NC	ND	NC	ND	ND	N	N	Industrial chemical factory discharges; runoff/leaching from
Perfluoro-2-methoxyacetic acid	ppt	Range	NC	ND	NC	ND	ND	N	R	landfills; used in fire-retarding foams and various industrial processes
Perfluoro-2-methoxyethoxyacetic acid	ppt	Range	NC	ND	NC	ND	ND	ND	ND	
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	ppt	Range	NC	ND	NC	ND	N	ND	ND	
Perfluoro-4-isopropoxybutanoic acid	ppt	Range	NC	ND	NC	ND	ND	ND	ND	
Perfluoro-4-methoxybutanoic acid (PFMOBA)	ppt	Range	NC	ND N	NC	N N	N N	N	N N	
Perfluorobutanoic acid (PFBA)	ppt	Range	NC	ND	NC	ND	ND	ND	ND	
Perfluorodecanesulfonic acid (PFDS)	ppt	Range Average	NC	N	NC	ND	ND	ND	ND	
Perfluorododecanesulfonic acid (PFDoS)	ppt	Range Average	NC	ND	NC	N	N	ND	ND	
Perfluoroheptanesulfonic acid (PFHpS)	ppt	Range Average	NC	ND	NC	N N	N N	ND	ND	
Perfluorohexadecanoic acid (PFHxDA)	ppt	Range Average	· NC	ND	NC	N	ND	ND	ND	
Perfluorononanesulfonic acid (PFNS)	ppt	Range Average	NC	dN	NC	ND	N	ND	N	
Perfluorooctane sulfonamide (PFOSA)	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
Perfluoropentanesulfonic acid (PFPeS)	ppt	Range Average	NC	ND	NC	N	ND	ND	ND	
Perfluoropentanoic acid (PFPeA)	ppt	Range Average	NC	dN	NC	ND	ND	ND	ND	
Nafion Byproduct 1	ppt	Range Average	NC	dN	NC	ND	ND	ND	ND	
Nafion Byproduct 2	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
Perfluoro (3,5,7,9-tetraoxadecanoic) acid	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
Perfluoro (3,5,7-trioxaoctanoic) acid	ppt	Range Average	NC	ND	NC	ND	ND	ND	ND	
Perfluoro (3,5-dioxahexanoic) acid	ppt	Range	NC	ND	NC	ND	ND	ND	ND	
Miscellaneous										
Ethyl-tert-butyl ether (ETBE)	ppb	Range Average	ND	ND	DN	ND	ND	ND	ND	Used as gasoline additive
рH	pH Units	Range Average	7.5 - 8.0 7.7	8.0 - 8.4 8.2	8.1 - 8.2 8.2	8.0 - 8.2 8.2	7.5 - 7.8 7.6	7.9 - 8.2 8.0	7.9 - 8.0 8.0	NA
Radon	pCi/L	Range Average	ND	ND	ND	ND	ND	ND	ND	Gas produced by the decay of naturally-occurring uranium in soil and water
tert-Amyl-methyl ether (TAME)	ppb	Range Average	N	ND	ND	ND	ND	ND	ND	Used as gasoline additive

† As a wholesale water system, Metropolitan provides its member agencies with relevant source water information and monitoring results that they may need for their annual water quality report. Metropolitan's compliance with state or federal regulations is determined at the treatment plant effluent and/or distribution system locations and source water or plant influent locations per frequency stipulated in Metropolitan's State-approved monitoring plan. MCLs, PHGs, and state DLRs are included in the Treatment Plant Effluent Report. 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.

						Footnotes												Demina
						95												Delilling to Telling
(f) (e)		(a)	(c)	(b)	(a)		OLN	ND	NC	NA.	MPN	MFL	MCL	DLR	CFU	CaCO ₃	Average	
Data are from two analytical methods based on EPA 537.1 and a research method for 18 different PFAS. Data are from a research method that can detect all 45 different PFAS including 18 PFAS reported under	sources or distribution system entry points of the effluent of source water treatment	Aesthetic parameters under the State Secondary Standards apply to water supplied to the public I	Data are from samples collected in 2017 for th	Data reported once every nine-year compliand	Data are from samples collected in 2018 for th		Nephelometric Turbidity Units	Not Detected at or above DLR or RL	Not Collected	Not Applicable	Most Probable Number	Million Fibers per Liter	Maximum Contaminant Level	Detection Limits for Purposes of Reporting	Colony-Forming Units	Calcium Carbonate	Average Result based on arithmetic mean	
n EPA 537.1 ect all 45 diffe	he effluent of	ary Standard	ne required tri	ce cycle until :	ne required tri		µS/cm	TON			Range	ppt	ppq	ppm	ppb	PHG	pCi/L	
Data are from two analytical methods based on EPA 537.1 and a research method for 18 different PFAS. Data are from a research method that can detect all 45 different PFAS including 18 PFAS reported under EPA 537.1.	source water treatment.	apply to water supplied to the public by community water systems; annual monitoring is required for approved surface water	Data are from samples collected in 2017 for the required triennial monitoring (2017 - 2019) until the next samples are collected.	Data reported once every nine-year compliance cycle until the next samples are collected. Current monitoring results are from 2011.	Data are from samples collected in 2018 for the required triennial monitoring (2017 - 2019) except for 1,2,3-Trichloropropane which began monitoring in 2018.		microSiemen per centimeter; or micromho per centimeter (µmho/cm)	Threshold Odor Number	once or twice annually	values are the same if a single value is reported for samples collected	Results based on minimum and maximum values; range and average	parts per trillion or nanograms per liter (ng/L)	parts per quadrillion or picograms per liter (pg/L)	parts per million or milligrams per liter (mg/L)	parts per billion or micrograms per liter (µg/L)	Public Health Goal	picoCuries per Liter	

Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	(In a month)	1	1 positive monthly sample	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year)	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive		Human and animal fecal waste
E. coli (federal Revised Total Coliform Rule)	(In the year)	0	(a)	0	Human and animal fecal waste

(a) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

For Systems Providing Surface Water as a Source of Drinking Water

Treatment Technique (a) (Type of approved filtration technology used)	
Turbidity Performance Standards (b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 - Be less than or equal to _N/A NTU in 95% of measurements in a month. 2 - Not exceedN/A NTU for more than eight consecutive hours. 3 - Not exceedN/A NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	N/A
Highest single turbidity measurement during the year	N/A
Number of violations of any surface water treatment requirements	N/A

NOTES: : FOOTHILL MUNICIPAL WATER DISTRICT is a Wholesaler we do not treat the water & we purchase 100% of our water from MWD

- (a) A required process intended to reduce the level of a contaminant in drinking water.
- (b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

Summary Information for Violation of a Surface Water TT

TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language

NOTES: : FOOTHILL MUNICIPAL WATER DISTRICT is a Wholesaler we do not treat the water & we purchase 100% of our water from MWD