

2021 Water Quality Report to SDCWA member agencies -- San Diego County Water Authority							
Parameter	Units	State or Federal MCL (MCL)	PHG (MCLG) (MRDL)	State DLR	Treatment Plant Effluent		Major Sources in Drinking Water
					Range	Average	
Twin Oaks Valley Water Treatment Plant							
PRIMARY STANDARDS--Mandatory Health-Related Standards							
CLARITY							
Combined Filter Effluent Turbidity	NTU	0.1	NA	NA	Range	0.02-0.05	Soil runoff
	%	95 (a)	NA	NA	Average	0.03	
						%≤ 0.1	
MICROBIOLOGICAL							
Total Coliform Bacteria in Distribution System	%	5.0 (b)	0	NA	Range	ND	Naturally present in the environment
					Average	ND	
Total Coliform Bacteria in Treatment Plant effluent	%	5.0 (b)	0	NA	Range	ND	Naturally present in the environment
					Average	ND	
E. coli Bacteria in Treatment Plant effluent	(c)	(c)	0	NA	Range	ND	Human and animal fecal waste
					Average	ND	
ORGANIC CHEMICALS							
Pesticides/PCBs							
Alachlor	ppb	2	4	1	Range	ND	Runoff from herbicide used on row crops
					Average	ND	
Atrazine	ppb	1	0.15	0.5	Range	ND	Runoff from herbicide used on row crops and along highways
					Average	ND	
Bentazon	ppb	18	200	2	Range	ND	Runoff/leaching from herbicide used on rice, alfalfa, and grapes
					Average	ND	
Carbofuran	ppb	18	0.7	5	Range	ND	Leaching of soil fumigant used on rice, alfalfa, and grapes
					Average	ND	
Chlordane	ppt	100	30	100	Range	ND	Residue of banned insecticide
					Average	ND	
2,4-D	ppb	70	20	10	Range	ND	Runoff from herbicide used on row crops, range land, lawns and aquatic weeds
					Average	ND	
Dalapon	ppb	200	790	10	Range	ND	Runoff from herbicide used on rights-of-way, crops, and landscapes
					Average	ND	
Dibromochloropropane (DBCP)	ppt	200	1.7	10	Range	ND	Banned nematocides that may still be present in soils
					Average	ND	
Dinoseb	ppb	7	14	2	Range	ND	Runoff from herbicide used on soybeans, vegetables, and fruits
					Average	ND	
Diquat	ppb	20	6	4	Range	ND	Runoff from herbicide used for terrestrial and aquatic weeds
					Average	ND	
Endothal	ppb	100	94	45	Range	ND	Runoff from herbicide used for terrestrial and aquatic weeds
					Average	ND	
Endrin	ppb	2	0.3	0.1	Range	ND	Residue of banned insecticide and rodenticide
					Average	ND	
Ethylene Dibromide (EDB)	ppt	50	10	20	Range	ND	Petroleum refinery discharges, underground gas tank leaks
					Average	ND	
Glyphosate	ppb	700	900	25	Range	ND	Runoff from herbicide use
					Average	ND	
Heptachlor	ppt	10	8	10	Range	ND	Residue of banned insecticide
					Average	ND	
Heptachlor Epoxide	ppt	10	6	10	Range	ND	Breakdown product of heptachlor
					Average	ND	
Lindane	ppt	200	32	200	Range	ND	Runoff/leaching from insecticide used on cattle, lumber, and gardens
					Average	ND	
Methoxychlor	ppb	30	0.09	10	Range	ND	Runoff/leaching from insecticide uses
					Average	ND	
Molinate (Ordram)	ppb	20	1	2	Range	ND	Runoff/leaching from herbicide used on rice
					Average	ND	
Oxamyl (Vydate)	ppb	50	26	20	Range	ND	Runoff/leaching from insecticide uses
					Average	ND	
Pentachlorophenol	ppb	1	0.3	0.2	Range	ND	Discharge from wood preserving factories other insecticidal and herbicidal uses
					Average	ND	
Picloram	ppb	500	166	1	Range	ND	Herbicide runoff
					Average	ND	
Polychlorinated Biphenyls (PCBs)	ppt	500	90	500	Range	ND	Runoff from landfills; discharge of waste chemicals
					Average	ND	
Simazine	ppb	4	4	1	Range	ND	Herbicide runoff
					Average	ND	
Thiobencarb (d)	ppb	70	42	1	Range	ND	Runoff leaching from rice herbicide
					Average	ND	
2,4,5-TP (Silvex)	ppb	50	3	1	Range	ND	Residue of banned herbicide
					Average	ND	
Toxaphene	ppb	3	0.03	1	Range	ND	Runoff/leaching from insecticide used on cotton and cattle
					Average	ND	
Semi-Volatile Organic Compounds							
Acrylamide	NA	TT	(0)	NA	Range	ND	Water treatment chemical impurities
					Average	ND	
Benzo(a)pyrene	ppt	200	7	100	Range	ND	Leaching from water storage tank linings and distribution lines
					Average	ND	
Di(2-ethylhexyl)adipate	ppb	400	200	5	Range	ND	Discharge from chemical factories
					Average	ND	
Di(2-ethylhexyl)phthalate	ppb	4	12	3	Range	ND	Chemical factory discharge; inert ingredient in pesticides
					Average	ND	
Epichlorohydrin	NA	TT	(0)	NA	Range	ND	Water treatment chemical impurities
					Average	ND	
Hexachlorobenzene	ppb	1	0.03	0.5	Range	ND	Discharge from metal refineries & aorichemicals factories; wastewater chlorination reaction by-product
					Average	ND	
Hexachlorocyclopentadiene 2,3,7,8-TCDD (Dioxin)	ppb	50	2	1	Range	ND	Discharge from chemical factories
					Average	ND	
	ppb	30	0.05	5	Range	ND	Waste incineration emissions; chemical factory discharge
					Average	ND	
Volatile Organic Compounds							
Benzene	ppb	1	0.15	0.5	Range	ND	Plastics factory discharge; gas tanks and landfill leaching
					Average	ND	
Carbon Tetrachloride	ppt	500	100	500	Range	ND	Discharge from chemical plants and other industrial waste
					Average	ND	
1,2-Dichlorobenzene	ppb	600	600	0.5	Range	ND	Discharge from industrial chemical factories
					Average	ND	
1,4-Dichlorobenzene	ppb	5	6	0.5	Range	ND	Discharge from industrial chemical factories
					Average	ND	
1,1-Dichloroethane	ppb	5	3	0.5	Range	ND	Extraction and degreasing solvent; fumigant
					Average	ND	
1,2-Dichloroethane	ppt	500	400	500	Range	ND	Discharge from industrial chemical factories
					Average	ND	
1,1-Dichloroethylene	ppb	6	10	0.5	Range	ND	Discharge from industrial chemical factories
					Average	ND	
cis-1,2-Dichloroethylene	ppb	6	13	0.5	Range	ND	Industrial chemical factory discharge; by-product of TCE and PCE biodegradation
					Average	ND	

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					Range	Average	
					Twin Oaks Valley Water Treatment Plant		
trans-1,2-Dichloroethylene	ppb	10	50	0.5	Average	ND	by-product of TCE and PCE biodegradation
Dichloromethane (Methylene Chloride)	ppb	5	4	0.5	Range	ND	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane	ppb	5	0.5	0.5	Average	ND	Industrial chemical factory discharge; primary component of some fumigants
1,3-Dichloropropene	ppt	500	200	500	Range	ND	Runoff/leaching from nematocides used on croplands
Ethylbenzene	ppb	300	300	0.5	Average	ND	Petroleum refinery discharge; industrial chemical factories
Methyl tert-butyl ether (MTBE) (d,e)	ppb	13	13	3	Range	ND	Gasoline discharge from watercraft engines
Monochlorobenzene	ppb	70	70	0.5	Average	ND	Discharge from industrial, agricultural, and chemical factories; and dry cleaners
Styrene	ppb	100	0.5	0.5	Range	ND	Rubber and plastics factories discharge; landfill leaching
1,1,2,2-Tetrachloroethane	ppb	1	0.1	0.5	Average	ND	Discharge from industrial, agricultural, and chemical factories; solvent uses
Tetrachloroethylene (PCE)	ppb	5	0.06	0.5	Range	ND	Discharge from factories, dry cleaners, and auto shops
Toluene	ppb	150	150	0.5	Average	ND	Discharge from petroleum and chemical refineries
1,2,4-Trichlorobenzene	ppb	5	5	0.5	Range	ND	Discharge from textile-finishing factories
1,1,1-Trichloroethane	ppb	200	1000	0.5	Average	ND	Metal degrading site discharge; manufacture of food wrappings
1,1,2-Trichloroethane	ppb	5	0.3	0.5	Range	ND	Discharge from industrial chemical factories
1,2,3-Trichloropropane	ppt	5	0.7	5	Average	ND	Cleaning and degreasing solvent; also associated with pesticide products
Trichloroethylene (TCE)	ppb	5	1.7	0.5	Range	ND	Discharge from metal degreasing sites and other factories
Trichlorofluoromethane (Freon-11)	ppb	150	1300	5	Average	ND	Industrial factory discharge; degreasing solvent; propellant
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ppm	1.2	4	0.01	Range	ND	Discharge from metal degreasing sites and other factories; dry cleaning solvent; refrigerant
Vinyl Chloride	ppt	500	50	500	Average	ND	Leaching from PVC piping; plastic factory discharge; by-product of TCE and PCE biodegradation
Xylenes	ppm	1,750	1.8	0.0005	Range	ND	Discharge from petroleum and chemical refineries; fuel solvent

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<b>INORGANIC CHEMICALS</b>							
Aluminum (d)	ppm	1	0.6	0.05	Range Average	ND-0.058 ND	Natural deposits erosion; Residue from water treatment process.
Antimony	ppb	6	1	6	Single	ND	Petroleum refinery discharges; fire retardants; solder, electronics
Arsenic	ppb	10	0.004	2	Single	2.1	Natural deposits erosion, glass and electronics production wastes
Asbestos	MFL	7	7	0.2	Single	ND	Asbestos cement pipes internal corrosion; natural deposits erosion
Barium	ppb	1000	2000	100	Single	ND	Natural deposits erosion; Oil and metal refineries discharge.
Beryllium	ppb	4	1	1	Single	ND	Discharge from metal refineries, aerospace, and defense industries
Cadmium	ppb	5	0.04	1	Single	ND	Internal corrosion of galvanized pipes; natural deposits erosion
Chromium	ppb	50	(100)	10	Single	ND	Discharge from steel and pulp mills; natural deposits erosion
Chromium VI (g)	ppb	NA	0.02	NA	Range Average	ND-0.22 0.06	Runoff/leaching from natural deposits; discharge from industrial waste factories
Copper (d,f)	ppm	1.0	0.3	0.05	Single	ND	Internal corrosion of household pipes; natural deposits erosion
Cyanide	ppb	150	150	100	Single	ND	Discharge from steel/metal, plastic, and fertilizer factories
Fluoride (g)					Control Range	0.6 - 1.2	
Fluoride (g)					Optimal Fluoride Level	0.7	Erosion of natural deposits;
Treatment-related	ppm	2.0	1	0.1	Range Average	0.6- 0.7 0.6	water additive that promotes strong teeth
Lead (g)	ppb	AL=15	0.2	5	Single	ND	House pipes internal corrosion; erosion of natural deposits
Mercury	ppb	2	1.2	1	Single	ND	Erosion of natural deposits; factory discharge; landfill runoff
Nickel	ppb	100	12	10	Single	ND	Erosion of natural deposits; discharge from metal factories
Nitrate (as N) (h)	ppm	10	10	0.4	Range Average	ND - 0.5 ND	Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion
Nitrite (as N)	ppm	1	1	0.4	Range Average	ND ND	Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion
Perchlorate (i)	ppb	6	1	4	Single	ND	Industrial waste discharge
Selenium	ppb	50	30	5	Single	ND	Refineries, mines, and chemical waste discharge; runoff from livestock lots
Thallium	ppb	2	0.1	1	Single	ND	Leaching from ore processing; electronics factory discharge
<b>RADIOLOGICALS (j)</b>							
Gross Alpha Particle Activity	pCi/L	15	(0)	3	Range Average	ND-4 ND	Erosion of natural deposits
Gross Beta Particle Activity (k)	pCi/L	50	(0)	4	Range Average	4.9-5.1 5	Decay of natural and man-made deposits
Radium-226	pCi/L	NA	0.05	1	Range Average	ND ND	Erosion of natural deposits
Radium-228	pCi/L	NA	0.019	1	Range Average	ND ND	Erosion of natural deposits
Radium-226 + 228 (l)	pCi/L	5	(0)	NA	Range Average	ND ND	Erosion of natural deposits
Strontium-90	pCi/L	8	0.35	2	Range Average	ND ND	Decay of natural and man-made deposits
Tritium	pCi/L	20000	400	1000	Range Average	ND 2.3-3.0	Decay of natural and man-made deposits
Uranium	pCi/L	20	0.43	1	Range Average	2.6-3.0 2.6	Erosion of natural deposits
<b>DISINFECTION BY-PRODUCTS, DISINFECTANT RESIDUALS, AND DISINFECTION BY-PRODUCTS PRECURSORS (m)</b>							
Total Trihalomethanes (THM) (n)	ppb	80	NA	1	Range Highest THM	18-34 34	By-product of drinking water chlorination
Halooacetic Acids (five) (HAAs) (o)	ppb	60	NA	1	Range Highest HAAs	ND-5 5	By-product of drinking water chlorination
Bromate (p)	ppb	10	0.1	1	Range Average	ND-6 2	By-product of drinking water ozonation
Total Chlorine Residual	ppm	(4.0)	(4.0)	NA	Range Average	2.3-3.2 3.2	Drinking water disinfectant added for treatment
Total Organic Carbon (TOC)	ppm	TT	NA	0.30	Range Average	2.30-2.70 2.50	Various natural and man-made sources; TOC is a precursor for the formation of disinfection byproducts
<b>SECONDARY STANDARDS--Aesthetic Standards</b>							
Aluminum (d)	ppb	200	NA	50	Range Average	ND-58 ND	Residue from water treatment process; natural deposits erosion
Chloride	ppm	500	NA	NA	Single	99	Runoff/leaching from natural deposits; seawater influence
Color	Color Units	15	NA	NA	Range Average	ND ND	Naturally occurring organic materials
Copper (d,f)	ppm	1.3	NA	0.05	Single	ND	Internal corrosion of household pipes; natural deposits erosion; wood preservatives leaching
Foaming Agents (MBAS)	ppb	500	NA	NA	Single	ND	Municipal and industrial waste discharges
Iron	ppb	300	NA	100	Range Average	ND ND	Leaching from natural deposits; industrial wastes
Manganese	ppb	50	NL = 500	20	Range Average	ND ND	Leaching from natural deposits
MTBE (d,e)	ppb	5	NA	3	Range Average	ND ND	Gasoline discharge from watercraft engines
Odor Threshold	TON	3	NA	1	Single	ND	Naturally-occurring organic materials
Silver	ppb	100	NA	10	Single	ND	Industrial discharges
Specific Conductance	µS/cm	1600	NA	NA	Single	940	Substances that form ions in water; seawater influence
Sulfate	ppm	500	NA	0.5	Single	220	Runoff/leaching from natural deposits; industrial wastes
Thiocarb (d)	ppb	1	NA	1	Range Average	ND ND	Runoff/leaching from rice herbicide
Total Dissolved Solids (TDS)	ppm	1000	NA	NA	Single	610	Runoff/leaching from natural deposits; seawater influence
Turbidity (a)	NTU	5	NA	0.1	Range Average	ND ND	Soil runoff
Zinc	ppm	5.0	NA	0.05	Single	ND	Runoff/leaching from natural deposits; industrial wastes

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					Range Average	Twin Oaks Valley Water Treatment Plant	
<b>OTHER PARAMETERS</b>							
<b>CHEMICAL</b>							
Acetochlor	ppb	NA	NA	2	Range Average	ND ND	Herbicide runoff
Alachlor	ppb	NA	NA	2	Range Average	ND ND	Herbicide runoff
Alkalinity (l)	ppm	NA	NA	NA	Single Sample	120	
Boron	ppb	NL = 1000	NA	100	Single Sample	120	Runoff/leaching from natural deposits; industrial wastes
Calcium	ppm	NA	NA	NA	Single Sample	67	
Chlorate	ppb	NL = 800	NA	20	Range Average	160-370 258	By-product of drinking water chlorination; industrial processes
Corrosivity (r) (as Aggressiveness Index)	AI	NA	NA	NA	Single Sample	13	Elemental balance in water; affected by temperature, other factors
Corrosivity (s) (as Saturation Index)	SI	NA	NA	NA	Single Sample	0.74	Elemental balance in water; affected by temperature, other factors
Dimethoate	ppb	NA	NA	0.7	Range Average	ND ND	Runoff from insecticide used on crops and residential uses
Hardness (l)	ppm	NA	NA	NA	Single Sample	270	
Magnesium	ppm	NA	NA	NA	Single Sample	24	
Metolachlor	ppb	NA	NA	1	Range Average	ND 8.1-8.2	Herbicide runoff
pH	Units	NA	NA	NA	Range Average	8.1-8.2 8.2	
Potassium	ppm	NA	NA	NA	Single Sample	4.6	
Radon (l)	pCi/L	NA	NA	100	Single Sample	ND	
Sodium	ppm	NA	NA	NA	Single Sample	83	
Vanadium	ppb	NL = 50	NA	3	Single Sample	ND	Naturally-occurring; industrial waste discharge
N-Nitrosodiethylamine (NDEA)	ppb	NA	NA	0.005	Single Sample	ND	By-product of drinking water chloramination; industrial processes
N-Nitrosodimethylamine (NDMA)	ppt	NL=10	3	2	Single Sample	ND	By-product of drinking water chloramination; industrial processes
N-Nitroso-di-n-butylamine (NDBA)	ppb	NA	NA	.004	Single Sample	ND	By-product of drinking water chloramination; industrial processes
N-Nitroso-di-n-propylamine (NDPA)	ppb	NA	NA	.007	Single Sample	ND	By-product of drinking water chloramination; industrial processes
N-Nitrosomethylamine (NMEA)	ppb	NA	NA	.003	Single Sample	ND	By-product of drinking water chloramination; industrial processes
N-Nitrosopyrrolidine (NPNR)	ppb	NA	NA	.002	Single Sample	ND	By-product of drinking water chloramination; industrial processes
Dichlorodifluoromethane (Freon 12)	ppb	NL = 1000	NA	0.5	Range Average	ND ND	Industrial waste discharge
Ethyl-tert-butylether (ETBE)	ppb	NA	NA	3	Range Average	ND ND	Used as gasoline additive
tert-Butyl-methylether (TAME)	ppb	NA	NA	3	Range Average	ND ND	Used as gasoline additive
tert-Butyl alcohol (TBA)	ppb	NL = 12	NA	2	Single Sample	ND	MTBE breakdown product; used as gasoline additive
<b>OTHER PARAMETERS - VOLUNTARY SAMPLING</b>							
Perfluorooctanoic Acid	ppt	NL=1400	NA	NA	Single Sample	ND	
PFOA					Sample	ND	
Perfluorooctanesulfonic Acid	ppt	NL=1300	NA	NA	Single Sample	ND	
PFOS					Sample	ND	

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<b>ABBREVIATIONS AND FOOTNOTES</b>								
<b>Abbreviations</b>								
AI			Aggressiveness Index				N	Nitrogen
AL			Action Level				NA	Not Applicable
CFE			Combined Filter Effluent				NL	Notification Level
CFU			Colony-Forming Units				ND	None Detect
LRAA			Locational Running Annual Average; highest LRAA is the highest of all Locational Running Annual Averages calculated as average of all samples collected within a 12-month period				NTU	Nephelometric Turbidity Units
							pCi/L	picoCuries per Liter
							PHG	Public Health Goal
							ppb	parts per billion or micrograms per liter (µg/L)
DBP			Disinfection By-Products				ppm	parts per million or milligrams per liter (mg/L)
DLR			Detection Limits for purposes of Reporting				ppq	parts per quadrillion or picograms per liter (pg/L)
HPC			Heterotrophic Plate Count				ppt	parts per trillion or nanograms per liter (ng/L)
MBAS			Methylene Blue Active Substances				SI	Saturation Index (Langlier)
MCL			Maximum Contaminant Level				RAA	Running Annual Average
MCLG			Maximum Contaminant Level Goal				TOC	Total Organic Carbon
MFL			Million Fibers per Liter				TON	Threshold Odor Number
MRDL			Maximum Residual Disinfectant Level				TT	Treatment Technique
MRDLG			Maximum Residual Disinfectant Level Goal				µS/cm	microSiemen per centimeter, or microhm per centimeter (µmho/cm)
<b>Footnotes</b>								
(a)			The turbidity level from the CFE of the membranes shall be less than or equal to 0.1 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU at any time. Turbidity is a measure of the cloudiness of the water and is an indicator of treatment performance.				(m)	TOWWTP met all provisions of the Stage 2 Disinfectants/Disinfection By-Products (D/DBP) Rule. Compliance was based on the LRAA. Average and range for the treatment plant effluent were taken from daily and monthly samples for TTHM and HAA5.
(b)			Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform-positive. In 2020, 287 samples were analyzed and all samples were negative for total coliforms. The MCL was not violated.				(n)	DLR = 1.0 ppb for each TTHM (bromoform, chloroform, dibromochloromethane, bromodichloromethane).
(c)			E. coli MCLs: The occurrence of two (2) consecutive total coliform-positive samples, one of which contains E. coli, constitutes an acute MCL violation. The MCL was not violated.				(o)	DLR = 1.0 ppb for each HAA5 analyte (dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid) except for monochloroacetic acid which has a DLR = 2.0 ppb.
(d)			Aluminum, copper, MTBE, and thiobencarb have both primary and secondary standards.				(p)	Running annual average was calculated from quarterly results of monthly and daily samples. Bromate reporting level is 3 ppb.
(e)			MTBE reporting level is 0.5 ppb.				(q)	Chromium VI reporting level is 0.03 ppb.
(f)			Lead and copper are regulated as a Treatment Technique under the Lead and Copper Rule. It requires systems to take water samples at the consumers' tap. The action levels, which trigger water systems into taking treatment steps if exceeded in more than 10% of the tap water samples, are 1.3 ppm for copper and 15 ppb for lead.				(r)	AI is a calculated value that measures the aggressiveness of water transported through pipes. Water with AI <10.0 is highly aggressive and would be very corrosive to almost all materials found in a typical water system. AI > 12.0 indicates non-aggressive water. AI between 10.0 and 11.9 indicates moderately aggressive water.
(g)			TOWWTP was in compliance with all provisions of the State's Fluoridation System Requirements.				(s)	SI measures the tendency for a water to precipitate or dissolve calcium carbonate (a natural mineral in water). Positive indices indicate the tendency to precipitate and/or deposit scale on pipes and are assumed to be non-corrosive. Negative indices indicate the tendency to dissolve calcium carbonate and are assumed to be corrosive.
(h)			State MCL is 45 mg/L as nitrate, which equals 10 mg/L as N.				(t)	Alkalinity and hardness was based on CaCO <sub>3</sub> .
(i)			TOWWTP's perchlorate reporting level is 2 ppb, which is below the state DLR of 4 ppb.					
(j)			Data was collected from four consecutive quarters of monitoring in 2019 - 2020. TOWWTP's next required triennial monitoring will be performed during the period of 2022-2024					
(k)			The gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. The screening level is 50 pCi/L.					
(l)			State MCL is 5 pCi/L for combined Radium-226 and -228.					