## 2020 Water Quality Report to SDCWA member agencies -- San Diego County Water Authority Treatment Plant Effluent State or Federal PHG Major Sources in Drinking Water Twin Oaks Valley MCL (MCLG) State Range Units [MRDL] [MRDLG] DLR Average Water Treatment Plant Parameter PRIMARY STANDARDS--Mandatory Health-Related Standards CLARITY combined Filte Range 0.013 100.0% Effluent Turbidity 0.1 Average MICROBIOLOGICAL Total Coliform Range ND ND Bacteria in Distribution System 5.0 (b) Naturally present in the environment Average Range Bacteria in Treatment Plant effluent 5.0 (b) ND % 0 NΑ Average Naturally present in the environment Range ND acteria in Treatment Plant effl ORGANIC CHEMICALS Pesticides/PCBs Range ND Alachlor Average ppb Runoff from herbicide used on row crops Range Runoff from herbicide used on row crops Atrazine ppb 0.15 0.5 Average ND and along highways Runoff/leaching from herbicide used on rice Range ND ND Bentazon 18 200 alfalfa, and grapes ppb Average Range Average Leaching of soil furnigant used on rice, alfalfa, ND ND and grapes Carbofuran ppb 0.7 Range ND 100 30 100 Chlordane Residue of banned insecticide ppt Average Range Runoff from herbicide used on row crops, ND 2,4-D 70 20 10 range land, lawns and aquatic weeds ppb Average Range Runoff from herbicide used on rights-of-way, ND 200 790 10 crops, and landscapes Banned nematocide that may still be present Dalapon ppb Average nochloropropane NID (DBCP) 200 10 in soils ppt Average Range Runoff from herbicide used on soybeans ND 14 vegetables, and fruits Dinoseb daa Average Runoff from herbicide used for terrestrial ND and aquatic weeds Runoff from herbicide used for terrestrial Diguat 20 ppb Average Range ND ND ...... Endothall ppb 100 94 45 Average and aquatic weeds Range 0.3 0.1 Residue of banned insecticide and rodenticide Endrin daa Average Ethylene Dibromide Range Petroleum refinery discharges; underground 20 (EDB) ppt 50 10 Average aas tank leaks Range 700 900 25 Runoff from herbicide use Glyphosate ppb Average Range Heptachlor ppt 10 10 Average Residue of banned insecticide Range 10 10 Breakdown product of heptachlor Runoff/leaching from insecticide used on cattle Heptachlor Epoxide ppt Average Range Lindane ppt 200 32 200 lumber, and gardens Range Methoxychlor ppb 30 0.09 10 Average Runoff/leaching from insecticide uses Range Molinate (Ordram) 20 ND Runoff/leaching from herbicide used on rice ppb Range Average 20 Oxamyl (Vydate) 50 26 Runoff/leaching from insecticide uses ppb Range Discharge from wood preserving factories ND Pentachlorophenol ppb 0.3 0.2 other insecticidal and herbicidal uses Range ND ND 500 166 ppb Polychlorinated Range 500 90 500 ND Runoff from landfills; discharge of waste chemicals Biphenyls (PCBs) ppt Average Range ND ND Average Herbicide runoff Range 42 Average ΝD Thiobencarb (d) ppb 70 Runoff leaching from rice herbicide Range ΝD (Silvex) ppb Average Residue of banned herbicide Runoff/leaching from insecticide used on Range 0.03 ND cotton and cattle Averag Semi-Volatile Organic Compounds Range TT (0) NA NΑ Acrylamide Average Water treatment chemical impurities Leaching from water storage tank linings Range Benzo(a)pyrene ppt 200 100 Average and distribution lines Range ND 200 Discharge from chemical factories Chemical factory discharge; inert ingredient Di(2-ethylhexyl)adipate ppb 400 Average NΓ Range ND Di(2-ethylhexyl)phthalate ppb 4 12 Average in pesticides Range TT Water treatment chemical impurities Discharge from metal refineries & agrichemicals Epichlorohydrin NA (0) NΑ Average Range Hexachlorobenzene 0.03 0.5 factories; wastewater chlorination reaction by-product ppb ND ND Range Hexachlorocyclopentadiene 2,3,7,8-TCDD ppb 50 Average Discharge from chemical factories Waste incineration emissions; chemical factory Range Volatile Organic Compounds lastics factory discharge; gas tanks 0.15 ND and landfill leaching Average Benzene ppb Discharge from chemical plants and other industrial Range ND Carbon Tetrachloride

## 2020 Water Quality Report to SDCWA member agencies -- San Diego County Water Authority

		State or				Treatment Plant Effluent	
		Federal	PHG		_		Major Sources in Drinking Water
_		MCL	(MCLG)	State	Range	Twin Oaks Valley	
Parameter	Units	[MKDL]	[MRDLG]	DLR	Average	Water Treatment Plant	
1,2-Dichlorobenzene	ppb	600	600	0.5	Range Average	ND ND	Discharge from industrial chemical factories
1,2-Dicilioroberizerie	ррь	000	000	0.0	Range	ND	Discharge from maastral chemical factories
1.4-Dichlorobenzene	daa	5	6	0.5	Average	ND	Discharge from industrial chemical factories
,					Range	ND ND	
1,1-Dichloroethane	ppb	5	3	0.5	Average		Extraction and degreasing solvent; fumigant
					Range	ND	
1,2-Dichloroethane	ppt	500	400	500	Average	ND NB	Discharge from industrial chemical factories
4.4 Diablassathulana		6	10	0.5	Range	ND ND	Dischause from industrial charries festavias
1,1-Dichloroethylene	ppb	6	10	0.5	Average	ND ND	Discharge from industrial chemical factories Industrial chemical factory discharge:
cis-1.2-Dichloroethylene	ppb	6	13	0.5	Range Average	ND	by-product of TCE and PCE biodegradation
C/3 - 1,2-DICHIOLOGUIYIGHG	ppb	U	13	0.5	Range	ND ND	Industrial chemical factory discharge;
trans-1.2-Dichloroethylene	daa	10	50	0.5	Average	ND	by-product of TCE and PCE biodegradation
Dichloromethane	DDD	10	00	0.0	Range	ND	Discharge from pharmaceutical
(Methylene Chloride)	ppb	5	4	0.5	Average	ND	and chemical factories
					Range	ND	Industrial chemical factory discharge;
1,2-Dichloropropane	ppb	5	0.5	0.5	Average	ND	primary component of some fumigants
					Range	ND	Runoff/leaching from nematocide used on
1,3-Dichloropropene	ppt	500	200	500	Average	ND	croplands
					Range	ND ND	Petroleum refinery discharge; industrial
Ethylbenzene	ppb	300	300	0.5	Average		chemical factories
Methyl tert-butyl ether					Range	ND	
(MTBE) (d,e)	ppb	13	13	3	Average	ND	Gasoline discharge from watercraft engines
					Range	ND ND	Discharge from industrial, agricultural, and chemical
Monochlorobenzene	ppb	70	70	0.5	Average	ND ND	factories, and dry cleaners
04	and the	400	٥٢	0.5	Range	ND ND	Rubber and plastics factories discharge;
Styrene	ppb	100	0.5	0.5	Average	ND	landfill leaching
1,1,2,2-Tetrachloroethane	ppb	1	0.1	0.5	Range Average	ND	Discharge from industrial, agricultural, and chemical factories; solvent uses
Tetrachloroethylene	ppb	-	0.1	0.5	Range	ND ND	Discharge from factories, dry cleaners,
(PCE)	dqq	5	0.06	0.5	Average	ND	and auto shops
(1.02)	ррь	- ŭ	0.00	0.0	Range	ND	una data anopo
Toluene	ppb	150	150	0.5	Average	ND	Discharge from petroleum and chemical refineries
					Range	ND	
1,2,4-Trichlorobenzene	ppb	5	5	0.5	Average	ND	Discharge from textile-finishing factories
					Range	ND	Metal degreasing site discharge; manufacture
1,1,1-Trichloroethane	ppb	200	1000	0.5	Average	ND	of food wrappings
		_			Range	ND ND	
1,1,2-Trichloroethane	ppb	5	0.3	0.5	Average		Discharge from industrial chemical factories
1 0 0 T-1-1-1		_	0.7	_	Range	ND ND	Cleaning and degreasing solvent,
1,2,3-Trichloropropane Trichloroethylene	ppt	5	0.7	5	Average	ND	also associated with pesticide products  Discharge from metal degreasing sites and
(TCE)	ppb	5	1.7	0.5	Range Average	ND	other factories
Trichlorofluoromethane	μμυ	J	1.7	0.0	Range	ND ND	Industrial factory discharge; degreasing solvent;
(Freon-11)	ppb	150	1300	5	Average	ND	propellant
1.1.2-Trichloro-1.2.2-	ppo	100	1000		Range	ND	Discharge from metal degreasing sites and other
trifluoroethane (Freon-113)	ppm	1.2	4	0.01	Average	ND	factories; dry cleaning solvent; refrigerant
					Range	ND	Leaching from PVC piping; plastic factory
Vinyl Chloride	ppt	500	50	500	Average	ND	discharge; by-product of TCE and PCE biodegradation
					Range	ND	Discharge from petroleum and chemical refineries;
Xylenes	ppm	1.750	1.8	0.0005	Average	ND	fuel solvent

# 2020 Water Quality Report to SDCWA member agencies -- San Diego County Water Authority Treatment Plant Effluent

Profession			State or				Treatment Plant Effluent	
Parameter   Mark   March   M					C4-4-	D	Turin Oaka Vallan	Major Sources in Drinking Water
NORSEANCE CHEMICALS	Baramatar	Unite		,		-	-	
Communication		Units	[MKDL]	IMKDEG	DLK	Average	water Freatment Plant	
March   Age   1   16   16   17   17   17   17   17	INORGANIC CHEMICALS					Range	ND	Natural deposits erosion:
Anthony   100	Aluminum (d)	ppm	1	0.6	0.05	Average		
Address	A making a grant			1	0		ND	
Arrene	Anumony	ppb	0		ь			
Selection   MT   7   7   02   20   20   20   20   20	Arsenic	ppb	10	0.004	2	Sample	ND	production wastes
Section	Ashastas	MEI	7	7	0.2		ND	
Service	Aspesios	IVII L	,	- '	0.2			
Part	Barium	ppb	1000	2000	100	Sample	ND	
Carelinian	Beryllium	pph	4	1	1		ND	
Commission   Gale   Gale   Fig.   F						Single		Internal corrosion of galvanized pipes;
Chromate M   Graph   Sp   1,000   10   10   Sp   Springe   ND	Cadmium	ppb	5	0.04	1		ND	
Chamber   Vision   Open   Op	Chromium	ppb	50	(100)	10			
Content   Cont	Observations M (a)	and a	NIA	0.00	N1.0			
Cooper (c)	Chromium VI (q)	ppb	NA	0.02	NA			
Country   Special   190   190   10	Copper (d,f)	ppm	1.0	0.3	0.05	Sample	ND	natural deposits erosion
Control of name of control (Control of Name	Cvanide	nnh	150	150	100		ND	
Flavorische   Communication	Cyarlide	рри	150	150		Control Range		iei urizer ractories
April   Cop   A   15   Cop   A   1					Optimal		0.7	
April   Cop   A   15   Cop   A   1		mag	2.0	1	0.1		0.5- 0.8 0.6	water additive that promotes strong teeth
Mecury		ррт				Single		
Marcory	Lead (g)	ppb	AL=15	0.2	5	Sample	ND ND	
Nicted   geb   100   12	Mercury	daa	2	1.2	1	Sample	ND	
No.   Col.   Street   No.   Street						Single		Erosion of natural deposits; discharge from
Nitrate (as N) (n)	Nickel	ppb	100	12	10			
Number (es N)	Nitrate (as N) (h)	ppm	10	10	0.4		ND	and sewage; natural deposits erosion
Perchibrate (1)	NIII II ( N)				0.4			
Perchange   Perc	Nitrite (as N)	ppm	1	1	0.4		ND	and sewage; natural deposits erosion
Seferium	Perchlorate (i)	ppb	6	1	4	Sample	ND	
The filtium	Solonium	nnh	50	20	-		NID.	
Tarible	Selellulli	рри	30	30	3			
Gross Ajhan Particle Activity   DCI/L   15   (0)   3   Ranson   ND   Erosion of natural deposits   Gross Seta   S	Thallium	daa	2	0.1	1	Sample	ND	
Particle Activity							ND	
Gross Bela		pCi/L	15	(0)	3			Erosion of natural deposits
Radium-226	Gross Beta					Range		
Radum-228	Particle Activity (k)	pCi/L	50	(0)	4			Decay of natural and man-made deposits
Radium-228	Radium-226	pCi/L	NA	0.05	1			Erosion of natural deposits
Combined Radium-224 + 28 (I)						Range		
Radium-20 + 228 (I)		pCI/L	NA	0.019	1			Erosion of natural deposits
Strontiun-90	Radium-226 + 228 (I)	pCi/L	5	(0)	NA			Erosion of natural deposits
Tritium	Chrombines 00	-C:/I	0	0.25	2		ND ND	Description of material and many model describe
Tritium	Strontium-90	pCI/L	0	0.33				Decay of natural and main made deposits
Trailum	Tritium	pCi/L	20000	400	1000	Average	ND	Decay of natural and man-made deposits
DISINFECTION BY-PRODUCTS, DISINFECTANT RESIDUALS, AND DISINFECTION BY-PRODUCTS PRECURSORS (m)  Total Trihadomethanes  Total Trihadomethan	Uranium	nCi/l	20	0.43	1			Erosion of natural deposits
Total Trihatomethanes					S. AND		ON BY-PRODUCTS PRECURSORS (r	
CTTHM (n)	Total Trihalomethanes					Range	16-38	
(HAA5) (o) ppb 60 NA 1 Highest HAA5 7.6 By-product of drinking water chlorination  Remote (p) ppb 10 0,1 1 Average 2.8 By-product of drinking water ozonation  Remote 2.8 By-product of drinking water ozonation  Remote 2.7.3.7 District ozonation and man-made sources; TOC is a precursor for the formation of distriction byproducts  Remote 2.7.5 Various natural and man-made sources; TOC is a precursor for the formation of distriction byproducts  Remote 2.7.5 Various natural and man-made sources; TOC is a precursor for the formation of distriction byproducts  Residue from water treatment process;  Remote ND network of the formation of distriction byproducts  Residue from water treatment process;  Remote ND network of the formation of distriction byproducts  Residue from water treatment process;  Remote ND network of the formation of distriction byproducts  Remote ND network of the formation of distriction byproducts  Remote ND network of the formation of distriction byproducts  Remote ND network of dis	(TTHM) (n)	daa	80	NA	1	Highest TTHM		By-product of drinking water chlorination
Bromate (p)	(HAA5) (o)	daa	60	NA	1		7.6	By-product of drinking water chlorination
Total Chlorine Residual ppm   [4,0]   [4,0]   NA						Range	ND-7.4	
Total Chlorine Residual	Bromate (p)	ppb	10	0.1	1			By-product of drinking water ozonation
DBP Precursors Control as Total Organic Carbon (TOC) pm	Total Chlorine Residual	ppm	[4.0]	[4.0]	NA	Average	3.3	
SECONDARY STANDARDS-Aesthetic Standards  Aluminum (d)				NIA	0.20		2-2.5	
Range					0.30	Average	۷.۵	JOI GISHIIGGROFF DYDI QUUCIS
Aluminum (d)		71001.110	uo ota	uarao		Range	ND	Residue from water treatment process;
Color	Aluminum (d)	ppb	200	NA	50	Average		
Color	Chloride	nnm	500	NΔ	NΑ		73-81 77	
Color		Color				Range	ND	
Copper (d,f)         ppm         1.3         NA         0.05         Sample         ND         deposits erosion; wood preservatives leaching           Foaming Agents         ppb         500         NA         NA         Sample         ND         Municipal and industrial waste discharges           (MBAS)         ppb         500         NA         100         Average         ND         Leaching from natural deposits; industrial wastes           Iron         ppb         50         NL = 500         20         Average         ND         Leaching from natural deposits           Manganese         ppb         50         NL = 500         20         Average         ND         Gasoline discharge from watercraft engines           MTBE (d,e)         ppb         5         NA         3         Average         ND         Gasoline discharge from watercraft engines           Odor Threshold         TON         3         NA         1         Sample         ND         Naturally-occurring organic materials	Color	Units	15	NA	NA	Average	ND	
Single   ND   Municipal and industrial waste discharges   ND   Municipal and industrial waste   ND   Municipal and industrial wa	Copper (d,f)	ppm	1.3	NA	0.05	Sample	ND	
(MBAS)         ppb         500         NA         NA         Sample         ND         Municipal and industrial waste discharges           Iron         ppb         300         NA         100         Average         ND         Leaching from natural deposits; industrial wastes           Manganese         ppb         50         NL = 500         20         Average         ND         Leaching from natural deposits           MTBE (d,e)         ppb         5         NA         3         Average         ND         Gasoline discharge from watercraft engines           Odor Threshold         TON         3         NA         1         Sample         ND         Naturally-occurring organic materials	Foaming Agents					Single		
Iron	(MBAS)	ppb	500	NA	NA	Sample		Municipal and industrial waste discharges
Range   ND   Leaching from natural deposits   Range   ND   Range   Range   ND   Range	Iron	ppb	300	NA	100	Average	ND	Leaching from natural deposits; industrial wastes
Range						Range	ND NE	
MTBE (d,e)         ppb         5         NA         3         Average         ND         Gasoline discharge from watercraft engines           Odor Threshold         TON         3         NA         1         Sample         ND         Naturally-occurring organic materials           Single         Single         Single         Naturally-occurring organic materials	ıvıanganese	ppb	50	NL = 500	20			Leacning from natural deposits
Odor Threshold TON 3 NA 1 Sample ND Naturally-occurring organic materials Single NB Naturally-occurring organic materials	MTBE (d,e)	ppb	5	NA	3	Average		Gasoline discharge from watercraft engines
Single	Odar Threshold	TON	2	N/A	4	Single	NIP.	Netwelly conving organic materials
Silver ppb 100 NA 10 Sample ND Industrial discharges	Oddr THESHOLD	I UN	3	INA				Invalue arry-occurring organic malerials
	Silver	ppb	100	NA	10	Sample	ND	Industrial discharges

OTHER PARAMETERS - VOLUNTARY SAMPLING

NL=1400

ppt

NA

NA

NA

NA

Single

Sample

Sample

Perfluoroctanoic Acid

**PFOS** 

Perflurooctanesufonic Acid

### 2020 Water Quality Report to SDCWA member agencies -- San Diego County Water Authority Treatment Plant Effluent State or Federal PHG Major Sources in Drinking Water MCL (MCLG) State Range Twin Oaks Valley Units [MRDL] MRDLG DLR Average Water Treatment Plant Parameter Single Substances that form ions in water; μS/cm 660 1600 Specific Conductance NΑ NΑ seawater influence Runoff/leaching from natural deposits; Sample Range 0.5 Sulfate ppm 500 NA Average industrial wastes Range ND Runoff/leaching from rice herbicide Runoff/leaching from natural deposits Thiobencarb (d) Total Dissolved Solid ppb NΑ Single 300 (TDS) 1000 ppm NΑ NΑ seawater influence ND ND Range Turbidity (a) NTU 5 NA 0.1 Average Soil runoff Runoff/leaching from natural deposits; Single Same ND 0.05 ppm 5.0 NΔ industrial wastes OTHER PARAMETERS CHEMICAL Range ND ND Acetochlor ppb NA NA NA Average Herbicide runoff Range ND ND Alachlor ppb 2 4 Average Herbicide runoff Single 97 Alkalinity (t) NΑ NΑ NΑ ppm Sample Runoff/leaching from natural deposits; Single Sample 130 NL = 100 NA 100 Boron ppb industrial wastes Range 33 Calcium NΑ NΑ NΑ ppm Average Range By-product of drinking water chlorination; Chlorate ppb NL = 800 NΑ 20 industrial processes Average Corrosivity (r) Single Elemental balance in water; affected (as Aggressiveness Index) Corrosivity (s) 12 by temperature, other factors Elemental balance in water; affected Αl NΑ NΑ NΑ Sample Single 041 (as Saturation Index) SI NΑ NA NΑ by temperature, other factors Sample Range Runoff from insecticide used on crops ND NΑ Dimethoate daa NΑ NΑ and residential uses Average 20-150 135 NΑ NA NΑ Hardness (t) ppm Average Range 13-15 14 Magnesium ppm NA NA NA Average Range NΑ NΑ Herbicide runoff Metolachlor ppb pH Average Range NΑ рΗ Units NΑ NΑ Average Range NA NA NA Potassium ppm Average Single ND Sample Radon (j) pCi/L NA NA 100 Range NA NΑ NΑ Sodium ppm Average Single Sample ND Vanadium ppb NL = 50 NΑ Naturally-occurring; industrial waste discharge By-product of drinking water chloramination; I-Nitrosodiethylamine Single ND (NDEA) N-Nitrosodimethylamine industrial processes By-product of drinking water chloramination; ppb NA NA NΑ Sample Single ND (NDMA) ppt NΑ NΑ industrial processes By-product of drinking water chloramination; -Nitroso-di-n-butylamine Single Sample ND NΑ industrial processes By-product of drinking water chloramination; (NDBA) ppb NA NΑ I-Nitroso-di-n-propylamine Single ND industrial processes By-product of drinking water chloramination; (NDPA) ppb NA NA NΑ I-Nitrosomethylethylamine Single Sample ND industrial processes By-product of drinking water chloramination; (NMEA) ppb NΑ NA NΑ I-Nitrosopyrrolidine Single ND (NPYR) NΑ NΑ NΑ ppb Sample industrial processes Dichlorodifluoromethane Range Average ND ND = 100 0.5 Freon 12) Industrial waste discharge Ethyl-tert-butylether Range (ETBE) NΑ Average ΝD ppb Used as gasoline additive ert-Amyl-methylether Range Average ΝD ppb Used as gasoline additive MTBE breakdown product; used as gasoline Single ND NL = 12 NΑ ample

ND

ND

(k)

(1)

## 2020 Water Quality Report to SDCWA member agencies -- San Diego County Water Authority Treatment Plant Effluent State or Federal PHG Major Sources in Drinking Water MCL (MCLG) State Range Twin Oaks Valley Units [MRDL] [MRDLG] DLR Water Treatment Plant Parameter Average ABBREVIATIONS AND FOOTNOTES Abbreviations Aggressiveness Index ΑI Ν Nitrogen AL CFE Action Level NΑ Not Applicable Combined Filter Effluent NL Notification Level CFU Colony-Forming Units ND None Detect LRAA Locational Running Annual Average; highest NTU Nephelometric Turbidity Units LRAA is the highest of all Locational Running pCi/L picoCuries per Liter Annual Averages calculated as average of all PHG Public Health Goal samples collected within a 12-month period ppb parts per billion or micrograms per liter (µg/L) DRP Disinfection By-Products ppm parts per million or milligrams per liter (mg/L) DLR Detection Limits for purposes of Reporting parts per quadrillion or picograms per liter (pg/L) ppq HPC Heterotrophic Plate Count parts per trillion or nanograms per liter (ng/L) ppt MBAS Methylene Blue Active Substances SI Saturation Index (Langelier) MCL Maximum Contaminant Level RAA Running Annual Average Total Organic Carbon MCLG Maximum Contaminant Level Goal TOC Threshold Odor Number MFL Million Fibers per Liter TON MRDL Maximum Residual Disinfectant Level Treatment Technique TT MRDLG Maximum Residual Disinfectant Level Goal microSiemen per centimeter; or uS/cm micromho per centimeter (umho/cm) Footnotes (a) The turbidity level from the CFE of the membranes shall be less than or equal to (m) TOVWTP met all provisions of the Stage 2 Disinfectants/Disinfection By-Products 0.1 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU (D/DBP) Rule. Compliance was based on the LRAA. at any time. Turbidity is a measure of the cloudiness of the water and is an indicator Average and range for the treatment plant effluent were taken from daily and of treatment performance. monthly samples for TTHM and HAA5. Total coliform MCLs: No more than 5.0% of the monthly samples may be (b) (n) DLR = 1.0 ppb for each TTHM (bromoform, chloroform, dibromochloromethane, total coliform-positive. In 2020, 287 samples were analyzed and all samples were bromodichloromethane). negative for total coliforms. 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 (c) E.coli MCLs: The occurrence of two (2) consecutive total coliform-positive acid which has a DLR = 2.0 ppb. samples, one of which contains $\emph{E. coli}$ , constitutes an acute MCL violation. The MCL was not violated. (p) Running annual average was calculated from quarterly results of monthly and daily Aluminum, copper, MTBE, and thiobencarb have both primary and secondary samples. Bromate reporting level is 3 ppb. (d) standards. Chromium VI reporting level is 0.03 ppb. (q) MTBE reporting level is 0.5 ppb. Al is a calculated value that measures the aggressiveness of water transported Lead and copper are regulated as a Treatment Technique under the Lead and through pipes. Water with Al <10.0 is highly aggressive and would be very Copper Rule. It requires systems to take water samples at the consumers' tap. corrosive to almost all materials found in a typical water system. Al > 12.0 indicates The action levels, which trigger water systems into taking treatment steps non-aggressive water. Al between 10.0 and 11.9 indicates moderately aggressive if exceeded in more than 10% of the tap water samples, are 1.3 ppm for copper SI measures the tendency for a water to precipitate or dissolve calcium carbonate and 15 ppb for lead. (s) TOWTP was in compliance with all provisions of the State's Fluoridation (a natural mineral in water). Positive indices indicate the tendency to precipitate (g) System Requirements. and/or deposit scale on pipes and are assumed to be non-corrosive. Negative State MCL is 45 mg/L as nitrate, which equals 10 mg/L as N. indices indicate the tendency to dissolve calcium carbonate and are assumed to TOVWTP'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. Alkalinity and hardness was based on CaCO<sub>3</sub>

TOVWTP's next required triennial monitoring will be performed during the period of 2022-2024

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.

State MCL is 5 pCi/L for combined Radium-226 and -228.