
APPENDIX E
Riverside Water District
Water Quality Data for 2021

WATER QUALITY DATA BY DISTRIBUTION AREA

Naturally Occuring Compounds as well as Contaminants					Distribution Area EFWD					Distribution Area RSWD					Distribution Area SBWD				
Detected Compound	Likely Source	MCL	MCLG	Unit of Measure	Range of Readings					Range of Readings					Range of Readings				
					Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests
Inorganics																			
Alkalinity to pH 4.5 mg CaCO ₃ /L	Naturally occurring	n/a	n/a	mg/L	No	ND	33.4	25.5	6	No	28.6	32.0	30.3	2	No	23.8	47.6	34.6	4
Aluminum	Naturally occurring	n/a	n/a	mg/L	No	ND	0.07	0.02	6	No	ND	ND	ND	2	No	ND	0.08	0.03	4
Ammonia, free	Some fertilizers, septic systems	n/a	n/a	mg/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Antimony	Discharge from petroleum refineries	6	6	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Arsenic	Erosion of natural deposits	10	0	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Barium	Erosion of natural deposits	2	2	mg/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Boron	Naturally occurring	n/a	n/a	mg/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Bromide	Naturally occurring	n/a	n/a	ug/L	No	ND	ND	ND	14	No	ND	ND	ND	10	No	ND	ND	ND	12
Cadmium	Natural deposits, galvanized pipe	5	5	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Calcium	Naturally occurring, pH control	n/a	n/a	mg/L	No	ND	13.6	7.2	6	No	9.9	10.0	10.0	2	No	6.8	21.0	12.9	4
Chloride	Naturally occurring, salt water intrusion, road salt	250	n/a	mg/L	No	5.2	9.9	7.3	6	No	13.0	14.2	13.6	2	No	5.3	33.5	14.8	4
Chromium, total	Natural deposits	100	100	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	2.0	1.1	4
CO ₂ , calculated	Naturally occurring	n/a	n/a	mg/L	No	1.0	4.8	2.9	6	No	1.8	1.8	1.8	2	No	2.6	4.6	3.4	4
Cobalt-59	Naturally occurring	n/a	n/a	ug/L	No	ND	0.8	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Color, Apparent	Naturally occurring metals or minerals	15	n/a	Color Units	No	ND	7	ND	6	No	5	5	5	2	No	ND	ND	ND	4
Copper	Household plumbing	AL=1.3	1.3	mg/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Fluoride	Erosion of natural deposits	2.2	n/a	mg/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Hardness, total	Measure of the calcium and magnesium	n/a	n/a	mg/L	No	2.1	37.5	20.1	6	No	34.4	35.0	34.7	2	No	20.3	68.9	40.8	4
Hexavalent Chromium	Erosion of natural deposits	n/a	n/a	ug/L	No	ND	0.20	0.11	6	No	0.45	0.57	0.51	2	No	0.26	1.91	0.98	4
Iron	Naturally occurring	300	n/a	ug/L	No	ND	66	35	6	No	245	281	263	2	No	ND	112	58	4
Lithium	Naturally occurring	n/a	n/a	ug/L	No	ND	1.3	ND	6	No	ND	1.1	ND	2	No	ND	ND	ND	4
Magnesium	Naturally occurring	n/a	n/a	mg/L	No	0.26	0.85	0.52	6	No	2.28	2.50	2.39	2	No	0.83	3.98	2.10	4
Manganese	Naturally occurring	300	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Molybdenum	Naturally occurring	n/a	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Nickel	Alloys, coatings manufacturing, batteries	100	n/a	ug/L	No	1.1	2.6	1.6	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Nitrate	Natural deposits, fertilizer, septic tanks	10	10	mg/L	No	0.04	0.17	0.10	6	No	0.06	0.09	0.07	2	No	0.06	3.22	1.86	4
Nitrite	Natural deposits, fertilizer, septic tanks	1	1	mg/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Perchlorate	Fertilizers, solid fuel propellant, fireworks	15	5	ug/L	No	ND	0.29	0.14	6	No	ND	ND	ND	2	No	ND	0.83	0.35	4
pH	Measure of water acidity or alkalinity	n/a	n/a	pH Units	No	6.0	9.2	7.4	10	No	7.5	7.6	7.5	2	No	7.1	7.4	7.3	4
pH, field	Measure of water acidity or alkalinity	n/a	n/a	pH Units	No	6.5	9.0	7.2	154	No	7.0	7.8	7.4	48	No	6.4	7.7	7.2	97
Phosphate, total	Added to keep iron in solution	n/a	n/a	mg/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Potassium	Naturally occurring	n/a	n/a	mg/L	No	0.38	0.49	0.42	6	No	0.55	0.60	0.58	2	No	0.37	0.84	0.59	4
Silicon	Naturally occurring	n/a	n/a	mg/L	No	3.0	3.6	3.2	6	No	6.4	6.6	6.5	2	No	5.0	7.0	5.9	4
Sodium	Naturally occurring	n/a	n/a	mg/L	No	5.3	11.4	8.0	6	No	8.4	9.5	8.9	2	No	4.5	17.0	9.0	4
Specific Conductance	Total of naturally occurring minerals	n/a	n/a	umho/cm	No	51	97	79	6	No	113	120	116	2	No	67	241	135	4
Strontium-88	Naturally occurring	n/a	n/a	mg/L	No	ND	0.029	0.016	6	No	0.033	0.033	0.033	2	No	ND	0.054	0.027	4
Sulfate	Naturally occurring	250	n/a	mg/L	No	ND	5.3	2.9	6	No	6.7	6.7	6.7	2	No	ND	8.3	3.6	4
Surfactants, anionic	Washwater from septic systems	0.50	n/a	mg/L	No	ND	ND	ND	2	No	NA	NA	NA	0	No	NA	NA	NA	0
Tin	Solder used in plumbing	n/a	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Titanium	Naturally occurring	n/a	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Total Organic Carbon (TOC)	Naturally occurring	n/a	n/a	mg/L	No	ND	ND	ND	4	No	ND	ND	ND	2	No	ND	ND	ND	4
Turbidity	Silts and clays in aquifer	5	n/a	NTU	No	ND	ND	ND	6	No	ND	1.0	0.60	2	No	ND	1.4	0.49	4
Vanadium	Naturally occurring	n/a	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Zinc	Naturally occurring, plumbing	5	n/a	mg/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4

Synthetic Organic Compounds including Pesticides and Herbicides (August 26, 2020 NYS adopts an MCL of 1 ppb for 1,4 Dioxane, see page 28)

Alachlor ESA	Degradation product of Alachlor	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Alachlor OA	Degradation product of Alachlor	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Aldicarb Sulfone	Pesticide used on row crops	2	1	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Aldicarb Sulfoxide	Pesticide used on row crops	4	1	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Chlordane, Total	Residue of banned termiticide	2	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Diethyltoluamide (DEET)	Insect Repellent	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
1,4-Dioxane	Used in manufacturing processes	*1	n/a	ug/L	No	ND	0.20	0.10	7	No	ND	ND	ND	2	No	ND	0.16	0.12	4
Hexazinone	Used as a herbicide	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	5
Metalaxyl	Used as a fungicide	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	5
Metolachlor	Used as a soil herbicide	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	5
Metolachlor ESA	Degradation product of Metolachlor	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Metolachlor OA	Degradation product of Metolachlor	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Tetrachloroterephthalic Acid	Used as a herbicide	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4

Volatile Organic Compounds

Chlorobenzene	From industrial chemical factories	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
Chlorodifluoromethane	Used as a refrigerant	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
Cis-1,2-Dichloroethene	From industrial chemical factories	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
1,3-Dichlorobenzene	Used as a fumigant and insecticide	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
1,4-Dichlorobenzene	Used as a fumigant and insecticide	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
Dichlorodifluoromethane	Refrigerant, aerosol propellant	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
1,1-Dichloroethane	Degreaser, gasoline, manufacturing	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	0.41	ND	12
1,1-Dichloroethene	From industrial chemical factories	5	n/a	ug/L	No	ND	0.44	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
1,2-Dichloropropane	From industrial chemical factories	5	0	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
Ethyl Benzene	From paint on inside of water storage tank	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
4-Methyl-2-Pentanone	From manufacturing facilities	50	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
Methylene Chloride	From industrial chemical factories	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
Methylethylketone	Used in the coatings industry	50	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
Methyl-Tert-Butyl Ether	Gasoline	10	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
o-Xylene	From paint on inside of water storage tank	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
p,m-Xylene	From paint on inside of water storage tank	5	n/a	ug/L	No	ND	ND	ND	24	No	ND	ND	ND	10	No	ND	ND	ND	12
Tetrachloroethene	Factories, dry cleaners, spills	5	0	ug/L	No	ND	ND												

WATER QUALITY DATA BY DISTRIBUTION AREA

Pharmaceuticals and Personal Care Products (PPCPs) Monitoring (cont'd)

Detected Compound	Likely Source	MCL	MCLG	Unit of Measure	Distribution Area 54					Distribution Area 57					Distribution Area 64				
					Range of Readings					Range of Readings					Range of Readings				
					Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests
Synthetic Organic Compounds including Pesticides and Pharmaceuticals																			
Acesulfame-K	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	0.22	0.09	6	No	ND	0.18	ND	13
Aspartame	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Carbamazepine	Anticonvulsant, mood stabilizing drug	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Dilantin	Antiepileptic drug	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Gemfibrozil	Lipid lowering drug	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Glycyrrhizic Acid	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
5-(4-Hydroxyphenyl)-5-Phenylhydantoin	Used for determining drug levels in the body	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Ibuprofen	Anti-inflammatory drug	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Imidacloprid	Used as a pesticide	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Meprobamate	Antianxiety drug	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Phenobarbital	Anticonvulsant, mood stabilizing drug	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Primidone	Pharmaceutical anticonvulsant drug	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Saccharin	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	0.72	0.12	13
Sodium Cyclamate	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13
Sucralose	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	0.63	0.20	6	No	ND	0.17	ND	13
Sulfamethoxazole	Antibiotic	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	6	No	ND	ND	ND	13

Detected Compound	Likely Source	MCL	MCLG	Unit of Measure	Distribution Area EFWD					Distribution Area RSWD					Distribution Area SBWD				
					Range of Readings					Range of Readings					Range of Readings				
					Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests
Synthetic Organic Compounds including Pesticides and Pharmaceuticals																			
Acesulfame-K	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	0.61	0.19	4
Aspartame	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Carbamazepine	Anticonvulsant, mood stabilizing drug	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Dilantin	Antiepileptic drug	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Gemfibrozil	Lipid lowering drug	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Glycyrrhizic Acid	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
5-(4-Hydroxyphenyl)-5-Phenylhydantoin	Used for determining drug levels in the body	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Ibuprofen	Anti-inflammatory drug	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Imidacloprid	Used as a pesticide	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Meprobamate	Antianxiety drug	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Phenobarbital	Anticonvulsant, mood stabilizing drug	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Primidone	Pharmaceutical anticonvulsant drug	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Saccharin	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Sodium Cyclamate	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Sucralose	Incomplete removal during wastewater treatment, home septic	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	0.28	0.09	4
Sulfamethoxazole	Antibiotic	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4

SAFE DISPOSAL OF PHARMACEUTICALS



Pharmaceutical contamination of drinking water is an important emerging concern. Changing our practices today can prevent future pollution of our only source of drinking water. Become a part of the solution to help stop the threat of discarded pharmaceuticals finding their way into our groundwater, bays and estuaries. Simply take your unused medications to any of the safe disposal locations on Long Island: Walgreens and CVS have safe drop boxes and accept medical disposals at specific locations across Long Island. Also, most police precincts in Suffolk County will accept prescription drugs for disposal. A list can be found here:

https://www.health.ny.gov/professionals/narcotic/medication_drop_boxes/suffolk.htm

WATER QUALITY DATA BY DISTRIBUTION AREA

Perfluoroalkyl and Polyfluoroalkyl Substances Monitoring (Continued)

Detected Compound	Likely Source	MCL	MCLG	Unit of Measure	Distribution Area 30					Distribution Area 32					Distribution Area 34				
					Range of Readings					Range of Readings					Range of Readings				
					Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests
Synthetic Organic Compounds including Per- and Polyfluoroalkyl Substances - Analysis Performed by NYS Approved SCWA PFAAS Method																			
Perfluoro-1-pentanesulfonate	PFOA (or, PFOS) are released into the environment from widespread use in commercial and industrial applications	50	n/a	ug/L	No	ND	ND	ND	127	No	ND	ND	ND	10	No	ND	ND	ND	6
Perfluorobutanoic Acid		50	n/a	ug/L	No	ND	0.044	ND	127	No	ND	ND	ND	10	No	ND	ND	ND	6
Perfluorobutanesulfonic Acid		50	n/a	ug/L	No	ND	ND	ND	127	No	ND	ND	ND	10	No	ND	ND	ND	6
Perfluoro-n-hexanoic Acid		50	n/a	ug/L	No	ND	0.049	ND	127	No	ND	ND	ND	10	No	ND	ND	ND	6
Perfluorohexane Sulfonic Acid		50	n/a	ug/L	No	ND	ND	ND	127	No	ND	ND	ND	10	No	ND	ND	ND	6
Perfluorononanoic Acid		50	n/a	ug/L	No	ND	ND	ND	127	No	ND	ND	ND	10	No	ND	ND	ND	6
Perfluorooctanoic Acid		*0.010	n/a	ug/L	No	ND	0.003	ND	127	No	ND	ND	ND	10	No	ND	ND	ND	6
Perfluorooctane Sulfonate		*0.010	n/a	ug/L	No	ND	0.002	ND	127	No	ND	0.003	ND	10	No	ND	ND	ND	6

* (August 26, 2020 NYS adopts an MCL of 0.010 ppb for Perfluorooctanoic Acid (PFOA) & Perfluorooctane Sulfonate (PFOS), see page 28)

Detected Compound	Likely Source	MCL	MCLG	Unit of Measure	Distribution Area 35					Distribution Area 44					Distribution Area 53				
					Range of Readings					Range of Readings					Range of Readings				
					Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests
Synthetic Organic Compounds including Per- and Polyfluoroalkyl Substances - Analysis Performed by NYS Approved SCWA PFAAS Method																			
Perfluoro-1-pentanesulfonate	PFOA (or, PFOS) are released into the environment from widespread use in commercial and industrial applications	50	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	6	No	ND	ND	ND	20
Perfluorobutanoic Acid		50	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	6	No	ND	ND	ND	20
Perfluorobutanesulfonic Acid		50	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	6	No	ND	ND	ND	20
Perfluoro-n-hexanoic Acid		50	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	6	No	ND	ND	ND	20
Perfluorohexane Sulfonic Acid		50	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	6	No	ND	ND	ND	20
Perfluorononanoic Acid		50	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	6	No	ND	ND	ND	20
Perfluorooctanoic Acid		*0.010	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	6	No	ND	ND	ND	20
Perfluorooctane Sulfonate		*0.010	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	6	No	ND	ND	ND	20

* (August 26, 2020 NYS adopts an MCL of 0.010 ppb for Perfluorooctanoic Acid (PFOA) & Perfluorooctane Sulfonate (PFOS), see page 28)

Detected Compound	Likely Source	MCL	MCLG	Unit of Measure	Distribution Area 54					Distribution Area 57					Distribution Area 64				
					Range of Readings					Range of Readings					Range of Readings				
					Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests
Synthetic Organic Compounds including Per- and Polyfluoroalkyl Substances - Analysis Performed by NYS Approved SCWA PFAAS Method																			
Perfluoro-1-pentanesulfonate	PFOA (or, PFOS) are released into the environment from widespread use in commercial and industrial applications	50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	7	No	ND	ND	ND	11
Perfluorobutanoic Acid		50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	7	No	ND	ND	ND	11
Perfluorobutanesulfonic Acid		50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	7	No	ND	ND	ND	11
Perfluoro-n-hexanoic Acid		50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	7	No	ND	ND	ND	11
Perfluorohexane Sulfonic Acid		50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	7	No	ND	ND	ND	11
Perfluorononanoic Acid		50	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	7	No	ND	ND	ND	11
Perfluorooctanoic Acid		*0.010	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	7	No	ND	ND	ND	11
Perfluorooctane Sulfonate		*0.010	n/a	ug/L	No	ND	ND	ND	30	No	ND	ND	ND	7	No	ND	ND	ND	11

* (August 26, 2020 NYS adopts an MCL of 0.010 ppb for Perfluorooctanoic Acid (PFOA) & Perfluorooctane Sulfonate (PFOS), see page 28)

Detected Compound	Likely Source	MCL	MCLG	Unit of Measure	Distribution Area EFWD					Distribution Area RSWD					Distribution Area SBWD				
					Range of Readings					Range of Readings					Range of Readings				
					Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests
Synthetic Organic Compounds including Per- and Polyfluoroalkyl Substances - Analysis Performed by NYS Approved SCWA PFAAS Method																			
Perfluoro-1-pentanesulfonate	PFOA (or, PFOS) are released into the environment from widespread use in commercial and industrial applications	50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Perfluorobutanoic Acid		50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Perfluorobutanesulfonic Acid		50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Perfluoro-n-hexanoic Acid		50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Perfluorohexane Sulfonic Acid		50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Perfluorononanoic Acid		50	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	ND	ND	4
Perfluorooctanoic Acid		*0.010	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	0.002	ND	4
Perfluorooctane Sulfonate		*0.010	n/a	ug/L	No	ND	ND	ND	6	No	ND	ND	ND	2	No	ND	0.003	ND	4

* (August 26, 2020 NYS adopts an MCL of 0.010 ppb for Perfluorooctanoic Acid (PFOA) & Perfluorooctane Sulfonate (PFOS), see page 28)



WATER QUALITY DATA BY DISTRIBUTION AREA

Disinfectants and Disinfection Byproducts (cont'd)

					Distribution Area EFWD					Distribution Area RSWD					Distribution Area SBWD				
Detected Compound	Likely Source	MCL	MCLG	Unit of Measure	Range of Readings					Range of Readings					Range of Readings				
					Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests	Violation Yes/No	Low Value	High Value	Avg. Value	No. of Tests
Disinfectant and Disinfection Byproducts (**MCL is the sum of the four starred compounds shown below)																			
Bromochloroacetic Acid	Byproduct of chlorination	50	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	8	No	ND	ND	ND	8
Bromodichloroacetic Acid	Byproduct of chlorination	50	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	8	No	ND	ND	ND	8
Bromodichloromethane	Byproduct of chlorination	**80	n/a	ug/L	No	ND	1.59	0.48	24	No	ND	1.15	0.54	10	No	ND	0.69	0.27	12
Bromoform	Byproduct of chlorination	**80	n/a	ug/L	No	ND	0.72	ND	24	No	ND	0.35	ND	10	No	ND	ND	ND	12
Chlorate	Byproduct of chlorination	n/a	n/a	mg/L	No	0.03	0.12	0.07	14	No	0.04	0.11	0.06	10	No	0.04	0.11	0.07	12
Chlorodibromoacetic Acid	Byproduct of chlorination	50	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	8	No	ND	ND	ND	8
Chloroform	Byproduct of chlorination	**80	n/a	ug/L	No	0.26	2.17	0.66	24	No	0.84	2.32	1.30	10	No	ND	1.17	0.54	12
Dibromoacetic Acid	Byproduct of chlorination	*60	n/a	ug/L	No	ND	0.43	ND	10	No	ND	ND	ND	8	No	ND	0.48	ND	8
Dibromochloromethane	Byproduct of chlorination	**80	n/a	ug/L	No	ND	1.08	0.37	24	No	ND	0.75	0.40	10	No	ND	0.47	ND	12
Dichloroacetic Acid	Byproduct of chlorination	*60	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	8	No	ND	ND	ND	8
Free Chlorine	Used as a disinfectant	4	n/a	mg/L	No	0.30	1.40	0.94	162	No	0.38	1.30	0.85	56	No	0.30	1.45	0.91	105
Monochloroacetic Acid	Byproduct of chlorination	*60	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	8	No	ND	ND	ND	8
Trichloroacetic Acid	Byproduct of chlorination	*60	n/a	ug/L	No	ND	ND	ND	10	No	ND	ND	ND	8	No	ND	ND	ND	8

(*MCL is the sum of the starred compounds shown above, including Monobromoacetic Acid not present)

Lead

Elevated levels of lead can cause serious health problems, especially for pregnant women, infants, and young children. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. SCWA is responsible for providing high quality drinking water, but is not responsible for the variety of materials used in a homeowner's plumbing. If you haven't run your water for several hours, you can minimize the potential for lead exposure by running your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. To schedule a lead test, please contact our Customer Contact Center (contact information listed on back page). Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at www.epa.gov/safewater/lead.

Lead and Copper Rule (LCR) Monitoring

This EPA regulation requires public water systems to monitor drinking water at specific customers' taps every three years. To check the effectiveness of our pH treatment and to ensure the quality of our drinking water the SCWA performs this testing every year. If lead levels exceed 15 parts per billion (ppb) or copper levels exceed 1.3 parts per million (ppm) in more than 10% of these samples, we must improve our corrosion control (pH treatment). Based on our 2021 LCR results, we have optimal corrosion control. Additional information on our pH treatment can be found on page 37.

2021 Lead and Copper Test Results

The values reported below for lead and copper represent the 90th percentile of the total number of samples collected in each water system. A percentile is a value on a scale of 100 that indicates the percentage of a distribution that is equal to or below it. For Dering Harbor Water District (Distribution Area 64), the 90th percentile is found by averaging the two highest concentrations.

Compound	Unit of Measure	MCLG	Action Level	Likely Source
Lead	ug/l	0	15.0	Household plumbing

Location	Violation Yes/No	Date of Sampling	Number of Samples	Results ug/l	90th Percentile Value (ug/l) ^{1,2}	No. of Samples Over Action Level
SCWA	No	8/03-9/14	50	ND-7.91	ND	0
Fire Island	No	7/15-9/21	23	ND-5.61	3.40	0
Stony Brook	No	8/28-9/6	20	ND-3.73	1.12	0
Riverside	No	8/10-8/21	13	ND-ND	ND	0
E. Farmingdale	No	8/19-8/30	21	ND-1.38	1.03	0
Dering Harbor	No	8/03-8/05	6	ND-1.12	1.06	0

(1) - The 90th percentile value is equal to or greater than 90% of the lead values detected in the water system.

(2) - In this case, 133 total samples were collected from the water systems shown above and the 90th percentile values ranged from ND to 7.91 ug/l for lead. The action level for lead was not exceeded at any of the 133 sites tested.

Compound	Unit of Measure	MCLG	Action Level	Likely Source
Copper	mg/l	1.3	1.3	Household plumbing

Location	Violation Yes/No	Date of Sampling	Number of Samples	Results mg/l	90th Percentile Value (mg/l) ^{1,2}	No. of Samples Over Action Level
SCWA	No	8/03-9/14	50	0.0327-0.574	0.435	0
Fire Island	No	7/15-9/21	23	ND-0.465	0.426	0
Stony Brook	No	8/28-9/6	20	0.0212-0.586	0.388	0
Riverside	No	8/10-8/21	13	0.0601-0.370	0.246	0
E. Farmingdale	No	8/16-8/30	21	0.0565-0.508	0.249	0
Dering Harbor	No	8/03-8/05	6	0.158-0.663	0.53	0

(1) - The 90th percentile value is equal to or greater than 90% of the copper values detected in the water system.

(2) - In this case, 133 total samples were collected from the water systems shown above and the 90th percentile values ranged from ND to 0.663 mg/l for copper. The action level for copper was not exceeded at any of the 133 sites tested.

DISINFECTION BYPRODUCTS RULE MONITORING

The SCWA is required to use a disinfectant to reduce the potential of microbial contamination. Minute amounts of chlorine are used to prevent bacterial growth in our distribution system. Disinfectants, such as chlorine, can react with the naturally occurring components in water to form byproducts referred to as disinfection byproducts (DBPs). DBPs, if consumed in excess of the MCL over many years, may lead to increased health risks. To increase public health protection by reducing the potential risk of adverse health effects associated with DBPs from the required chlorination of our drinking water, the SCWA tests for two types of DBPs - Trihalomethanes (THMs) and Haloacetic Acids (HAAs). The MCL is 80 ppb for the sum of the four THMs, and for the sum of five HAAs the MCL is 60 ppb.

The Stage 2 Disinfectant and Disinfection Byproducts Rule (DBPR) is an EPA regulation that requires us to monitor our distribution system quarterly for four THMs (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) and five HAAs (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid). The chart below includes the range of quarterly results for the sum of the two groups of DBPs and the highest Locational Running Annual Average as required. The SCWA also monitors the wells and storage tanks for various other DBPs, including chlorate and four additional HAAs. The 2021 disinfectant and disinfection byproducts results for each distribution area are noted on pages 11-23.

2021 Stage 2 DBPR Test Results

Detected Compound		Total Trihalomethanes				Total Haloacetic Acids			
Likely Source		Byproduct of chlorination				Byproduct of chlorination			
MCL		80				60			
MCLG		N/A				N/A			
Unit of Measure		ug/L				ug/L			
		Range of Readings				Range of Readings			
Location	Sample Site	Low Value	High Value	Annual Average	No. of Tests	Low Value	High Value	Annual Average	No. of Tests
SCWA	1	1.70	5.60	4.12	4	ND	0.60	ND	4
	2	4.25	17.27	9.20	4	ND	2.40	1.50	4
	3	ND	1.50	0.82	4	ND	ND	ND	4
	4	20.92	33.16	25.69	4	2.64	4.21	3.24	4
	5	12.23	24.02	17.00	4	1.73	5.64	3.40	4
	6	5.68	15.54	8.91	4	ND	0.96	0.63	4
	7	1.56	4.38	2.99	4	ND	0.74	ND	4
	8	0.36	6.58	2.69	4	0.45	5.09	1.81	4
FHWD	1	2.72	7.55	5.36	4	3.21	9.39	5.97	4
	2	1.79	17.67	7.97	4	0.66	23.96	9.59	4
EFWD	1	0.35	0.41	0.38	4	ND	ND	ND	4
	2	1.73	4.51	2.90	4	ND	ND	ND	4
SBWD	1	ND	2.33	1.21	4	ND	0.48	ND	4
	2	0.43	1.07	0.62	4	ND	ND	ND	4
RSWD	1	0.84	1.48	1.20	4	ND	ND	ND	4
	2	2.31	3.93	2.79	4	ND	ND	ND	4

RADIOLOGICAL TEST RESULTS (ALL DISTRIBUTION AREAS)

Radon, a naturally occurring radioactive gas found in soil and outdoor air, may also be found in drinking water and indoor air. Some people exposed to elevated radon levels from sources including drinking water may, over many years, have an increased risk of developing cancer. The main risk from radon is lung cancer entering indoor air from soil under homes. For further information, call the state radon program at (800) 458-1158 or call the EPA's Radon Hotline at (800) SOS-Radon.

In 2021 we monitored for radon at 80 locations throughout our distribution system. The results for each distribution area are noted in the chart below. The test results ranged from ND to 253 pCi/L of radon. Currently there is no MCL for radon. The EPA is proposing to require water suppliers to provide water with levels no higher than 4,000 pCi/L of radon.

The EPA is proposing to require water suppliers to provide water with levels no higher than 4,000 pCi/L of radon.

Detected Compound	GROSS ALPHA				GROSS BETA				RADON-222				RADIUM-226				RADIUM-228			
Likely Source	Erosion of Natural Deposits				Natural deposits, man-made emissions				Naturally occurring radioactive gas				Erosion of Natural Deposits				Erosion of Natural Deposits			
MCL	15				50				N/A				5				5			
MCLG	0				0				0				0				0			
Unit of Measure	pCi/L				pCi/L				pCi/L				pCi/L				pCi/L			
	Range of Readings				Range of Readings				Range of Readings				Range of Readings				Range of Readings			
Distribution Area	Low Value	High Value	Average Value	No. of Tests	Low Value	High Value	Average Value	No. of Tests	Low Value	High Value	Average Value	No. of Tests	Low Value	High Value	Average Value	No. of Tests	Low Value	High Value	Average Value	No. of Tests
1	ND	ND	ND	23	ND	4.89	ND	23	ND	117	ND	10	ND	ND	ND	4	ND	ND	ND	4
4	ND	ND	ND	1	ND	ND	ND	1	ND	ND	ND	1	NA	NA	NA	0	NA	NA	NA	0
5	ND	ND	ND	2	ND	ND	ND	2	ND	ND	ND	1	ND	ND	ND	1	ND	ND	ND	1
6	ND	ND	ND	6	ND	ND	ND	6	ND	ND	ND	2	ND	ND	ND	4	ND	ND	ND	4
7	ND	ND	ND	1	ND	ND	ND	1	ND	ND	ND	1	NA	NA	NA	0	NA	NA	NA	0
8	ND	ND	ND	1	ND	ND	ND	1	ND	ND	ND	1	NA	NA	NA	0	NA	NA	NA	0
9	ND	1.53	ND	2	ND	2.95	ND	2	ND	ND	ND	2	NA	NA	NA	0	NA	NA	NA	0
10	ND	ND	ND	6	ND	2.63	ND	6	ND	ND	ND	2	ND	ND	ND	4	ND	2.95	1.11	4
11	ND	2.01	ND	11	ND	3.22	ND	11	ND	125	ND	2	ND	ND	ND	9	ND	2.74	1.56	9
12	ND	1.86	ND	49	ND	21.90	ND	49	ND	123	ND	13	ND	ND	ND	15	ND	1.12	ND	15
14	ND	ND	ND	3	ND	ND	ND	3	ND	ND	ND	2	ND	ND	ND	1	ND	ND	ND	1
15	ND	ND	ND	20	ND	2.63	ND	20	ND	122	ND	6	ND	ND	ND	14	ND	1.00	ND	14
20	ND	ND	ND	37	ND	3.79	ND	37	ND	ND	ND	6	ND	ND	ND	12	ND	ND	ND	12
23	ND	ND	ND	10	ND	2.07	ND	10	ND	109	ND	5	ND	1.75	ND	5	ND	ND	ND	5
26	ND	ND	ND	4	ND	ND	ND	4	ND	253	118	3	ND	ND	ND	1	ND	ND	ND	1
30	ND	ND	ND	10	ND	5.62	2.20	10	ND	114	ND	3	ND	ND	ND	7	ND	ND	ND	7
32	ND	ND	ND	1	ND	ND	ND	1	ND	ND	ND	1	NA	NA	NA	0	NA	NA	NA	0
34	ND	ND	ND	1	ND	ND	ND	1	117	117	117	1	NA	NA	NA	0	NA	NA	NA	0
35	ND	ND	ND	1	ND	ND	ND	1	129	129	129	1	NA	NA	NA	0	NA	NA	NA	0
44	ND	ND	ND	2	ND	ND	ND	2	ND	ND	ND	1	ND	ND	ND	1	ND	ND	ND	1
53	ND	ND	ND	5	ND	ND	ND	5	ND	ND	ND	4	ND	ND	ND	1	ND	ND	ND	1
54	ND	ND	ND	6	ND	ND	ND	6	ND	ND	ND	5	ND	ND	ND	1	ND	ND	ND	1
57	ND	ND	ND	2	ND	ND	ND	2	ND	ND	ND	1	ND	ND	ND	1	ND	ND	ND	1
64	ND	ND	ND	1	ND	ND	ND	1	118	118	118	1	NA	NA	NA	0	NA	NA	NA	0
EFWD	ND	ND	ND	2	ND	ND	ND	2	103	137	120	2	NA	NA	NA	0	NA	NA	NA	0
RSWD	ND	ND	ND	1	ND	ND	ND	1	ND	ND	ND	1	NA	NA	NA	0	NA	NA	NA	0
SBWD	ND	ND	ND	2	ND	3.40	2.20	2	ND	156	103	2	NA	NA	NA	0	NA	NA	NA	0

Asbestos Monitoring

Asbestos-cement water mains are made from cement with asbestos fibers added to make the pipes strong. Although drinking water can pass through these pipes without becoming contaminated with asbestos fibers, asbestos fibers may be released through the wear or breakdown of these mains; erosion of natural deposits. The EPA has set the maximum contaminant level (MCL) for asbestos at 7.0 million fibers per liter (MFL). Some people who drink water containing asbestos in excess of the MCL over many years may have an increased risk of developing benign intestinal polyps. Although testing is required every nine years, the SCWA tests every year.

In 2021 we monitored 17 sampling station locations and 5 production wells where asbestos-cement pipes exist. All locations were non-detect (no asbestos fibers were present).