

				Monroe County Water Authority 2024 Water Quality Monitoring Program Summary															SCAN CODE FOR AWQR REPORT: 	
Water Quality Monitoring Parameters				MCWA - SWTP			MCWA - WWTP			MCWA - CWTP			Rochester			ECWA - VWTP				
				Source - Lake Ontario			Source - Lake Ontario			Source - Groundwater Well(s)			Source - Hemlock Lake			Source - Lake Erie				
	Regulatory Limit	EPA / NYS MCLG	Units	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024		
<u>Inorganics, Metals, & Physical Parameters:</u>																				
Alkalinity	NS	NA	mg/L	91	90 - 91	4	90	88 - 92	4	250	240 - 260	4	75	71 - 87	4	93	87 - 97	4		
Aluminum	NS	NS	µg/L	52	26 - 82	4	61	26 - 88	4	7	ND - 28	4	ND		4	171	52 - 300	4		
Antimony	6	6	µg/L	ND		4	ND		4	ND		4	ND		1	ND		1		
Arsenic	10	NA	µg/L	ND		4	ND		4	ND		4	ND		4	ND		4		
Asbestos (Distribution System)	7	7	MF/L	ND		1 (2016)	ND		1 (2016)	ND		1 (2016)	ND		1 (2023)	ND		30 (2023)		
Barium	2	2	mg/L	0.022	0.02 - 0.024	4	0.02	0.019 - 0.022	4	0.09	0.08 - 0.1	4	0.015	0.015	1	0.02	0.02	1		
Beryllium	4	4	µg/L	ND		4	ND		4	ND		4	ND		1	ND		1		
Bromide	NS	NS	µg/L	ND		4	ND		4	NR			ND		1	ND		1		
Cadmium	5	5	µg/L	ND		4	ND		4	ND		4	ND		1	ND		1		
Calcium	NS	NS	mg/L	35	33 - 38	4	36	34 - 39	4	45	42 - 49	4	29	25 - 33	4	33	31 - 35	4		
Chloride	250	NA	mg/L	27	26 - 28	4	29	26 - 31	4	62	49 - 76	4	38	32 - 41	4	22	20 - 25	4		
Chromium	100	100	µg/L	0.3	ND - 1.1	4	ND		4	0.3	ND - 1.2	4	ND		2	0.6	ND - 1.1	2		
Color	15	NA	Color Units	1	ND - 2	4	ND		4	0.8	ND - 3	4	0.5	ND - 2	4	0.5	ND - 2	4		
Conductivity	NS	NS	µmhos/cm	302	290 - 330	52	313	300 - 340	46	740	481 - 865	53	294	280 - 313	54	295	286 - 303	51		
Copper (Distribution System Samples)	NS	NS	µg/L	ND		4	0.6	ND - 2.3	4	14	11 - 17	4	9.3	ND - 14	4	0.5	ND - 2	4		
Copper (Customer Tap Samples)	AL ¹ = 1300	1300	µg/L	110	4.4 - 880	250	110	4.4 - 880	250	32	ND - 130	17	110	4.4 - 880	250	32	ND - 130	17		
Cyanide	200	200	µg/L	ND		4	ND		4	ND		4	ND		4	ND		4		
Fluoride	2.2	NA	mg/L	0.69	0.41 - 0.93	2,180	0.68	0.3 - 0.95	2,038	0.2	0.14 - 0.51	53	0.69	0.4 - 0.8	1,077	0.66	0.58 - 0.76	51		
Iron	300	NA	µg/L	ND		4	ND		4	ND		4	22	22	1	ND		1		
Lead (Distribution System)	NS	NS	µg/L	ND		4	ND		4	ND		4	ND		4	ND		4		
Lead (Customer Tap Samples)	AL ¹ = 15	0	µg/L	4.4	ND - 110	250	4.4	ND - 110	250	0.11	ND - 0.75	17	4.4	ND - 110	250	0.11	ND - 0.75	17		
Magnesium	NS	NS	mg/L	8.9	8.6 - 9.5	4	8.9	8.6 - 9.5	4	17	16 - 18	4	6.9	6.4 - 7.9	4	8.3	7.6 - 8.9	4		
Manganese	300	NA	µg/L	ND		4	ND		4	5.8	5.2 - 6.3	4	ND		1	ND		1		
Mercury	2	2	µg/L	ND		4	ND		4	ND		4	ND		1	ND		1		
Nickel	100	NA	µg/L	ND		4	ND		4	ND		4	ND		1	ND		1		
Nitrate	10	10	mg/L	0.26	0.17 - 0.42	4	0.29	0.19 - 0.47	4	0.05	ND - 0.18	4	0.16	0.16	1	0.19	0.19	1		
Nitrite	1	1	mg/L	ND		4	ND		4	ND		4	ND		1	ND		1		
Potassium	NS	NS	mg/L	1.5	1.4 - 1.6	4	1.5	1.4 - 1.6	4	0.3	ND - 1	1	1.3	1.3	1	1.3	1.3	1		
Selenium	50	50	µg/L	ND		4	0.9	ND - 3.6	4	ND		4	ND		1	ND		1		

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Silica	NS	NS	mg/L	0.5	ND - 0.71	4	0.57	ND - 0.85	4	8	7.0 - 8.8	4	0.9	0.36 - 1.2	4	0.4	0.26 - 0.58	4
Silver	100	NA	µg/L	ND		4	ND		4	ND		4	ND		1	ND		1
Sodium	NS	NS	mg/L	16	15 - 17	4	18	16 - 19	4	94	92 - 97	4	21	20 - 21	4	13	12 - 15	4
Sulfate	250	NA	mg/L	26	25 - 26	4	26	25 - 27	4	48	46 - 51	4	14	11 - 20	4	19	19	4
Thallium	2	0.5	µg/L	ND		4	ND		4	ND		4	ND		1	ND		1
Zinc	5	NA	mg/L	ND		4	ND		4	ND		4	ND		1	ND		1
pH	NS	NS	pH units	7.43	7.12 - 7.61	366	7.44	7.11 - 7.79	345	7.37	7.21 - 7.99	169	7.77	7.03 - 8.09	366	7.95	7.3 - 8.13	1,096
Total Dissolved Solids	NS	NS	mg/L	178	170 - 180	4	180	170 - 190	4	435	410 - 470	4	168	160 - 180	4	173	170 - 180	4
Total Hardness	NS	NS	mg/L	123	120 - 130	4	125	120 - 140	4	183	170 - 200	4	101	90 - 120	4	118	110 - 120	4
Total Organic Carbon	TT	NS	mg/L	1.7	1.5 - 1.8	4	1.8	1.7 - 1.9	4	0.9	0.82 - 1	4	2.2	1.9 - 2.4	4	1.9	1.8 - 2	4
Surfactants	NS	NS	mg/L	ND		4	ND		4	ND		4	ND		4	ND		4
Turbidity - Entry Point	TT ²	NA	NTUs	0.04	0.02 - 0.08	2,196	0.04	0.01 - 0.09	2,044	0.55	0.04 - 3.41	106	0.06	0.01 - 0.17	2,184	0.07	0.04 - 0.26	1,096
Turbidity - Distribution System	TT ³	NA	NTUs	0.13	0.03 - 2.62	4,087	0.13	0.03 - 2.62	4,087	0.16	0.05 - 2.05	397	0.13	0.03 - 2.62	4,087	0.16	0.05 - 2.05	397
Chlorine Residual - Entry Point	4	NA	mg/L	1.15	0.87 - 1.42	2,196	0.87	0.36 - 1.25	2,043	1.1	0.44 - 1.6	176	0.96	0.56 - 1.23	2,189	1.6	1.3 - 1.85	1,096
Chlorine Residual - Retail Distribution System	4 ⁴	NA	mg/L	0.61	ND - 1.96	4,088	0.61	ND - 1.96	4,088	0.72	ND - 1.65	397	0.61	ND - 1.96	4,088	0.72	ND - 1.65	397
<u>Microbiological Parameters:</u>																		
Coliform - Retail Distribution System	TT ⁵	0	NA	2 positive samples - 0.05%.		4,088	2 positive samples - 0.05%.		4,088	0 positive samples - 0%.		397	2 positive samples - 0.05%.		4,088	0 positive samples - 0%.		397
				December: 1 positive sample - 0.3%.			December: 1 positive sample - 0.3%.			None Detected.			December: 1 positive sample - 0.3%.			None Detetced.		
Escherichia coli - Bacteria (Retail Distribution System)	1	0	NA	0 positive samples.		4,088	0 positive samples.		4,088	0 positive samples.		397	0 positive samples.		4,088	0 positive samples.		397
				None Detected.			None Detected.			None Detected.			None Detected.			None Detetced.		
Cryptosporidium (Source water prior to treatment)	TT	0	OoCysts/L	ND		4	ND		4	NR		NR	NR		NR	NR		NR
				None Detected.			None Detected.			NR			NR			NR		
Giardia Lamblia (Source water prior to treatment)	TT	0	Cysts/L	0.013	ND - 0.05	4	ND		4	NR		NR	NR		NR	NR		NR
				February: 1 positive sample.			None detected.			NR			NR			NR		
<u>Radionuclides:</u>																		
Gross Alpha Particle	15	0	pCi/L	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)
Gross Beta Particle / Photon Emitters	50	0	pCi/L	NR		0 (2021)	NR		0 (2021)	NR		0 (2021)	NR		0 (2021)	NR		0 (2021)
Radium 226	NS	NA	pCi/L	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)
Radium 228	NS	NA	pCi/L	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)
Combined Radium 226/228	5	0	pCi/L	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)
Uranium	30	0	pCi/L	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)	ND		1 (2021)

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	Regulatory Limit	EPA / NYS MCLG	Units	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024
<u>Volatile Organic Compounds:</u>																		
Benzene	5	0	µg/L	Not Detected		4	Not Detected		4	Not Detected		4	Not Detected		4	Not Detected		4
Bromobenzene	5	NA	µg/L			4			4			4			4			4
Bromochloromethane	5	NA	µg/L			4			4			4			4			4
Bromomethane	5	NA	µg/L			4			4			4			4			4
n-Butylbenzene	5	NA	µg/L			4			4			4			4			4
sec-Butylbenzene	5	NA	µg/L			4			4			4			4			4
tert-Butylbenzene	5	NA	µg/L			4			4			4			4			4
Carbon Tetrachloride	5	0	µg/L			4			4			4			4			4
Chlorobenzene	5	NA	µg/L			4			4			4			4			4
Chloroethane	5	NA	µg/L			4			4			4			4			4
Chloromethane	5	NA	µg/L			4			4			4			4			4
2-Chlorotoluene	5	NA	µg/L			4			4			4			4			4
4-Chlorotoluene	5	NA	µg/L			4			4			4			4			4
Dibromomethane	5	NA	µg/L			4			4			4			4			4
1,2-Dichlorobenzene	5	NA	µg/L			4			4			4			4			4
1,3-Dichlorobenzene	5	NA	µg/L			4			4			4			4			4
1,4-Dichlorobenzene	5	NA	µg/L			4			4			4			4			4
Dichlorodifluoromethane	5	NA	µg/L			4			4			4			4			4
1,1 Dichloroethane	5	NA	µg/L			4			4			4			4			4
1,2-Dichloroethane	5	0	µg/L			4			4			4			4			4
1,1-Dichloroethene	5	NA	µg/L			4			4			4			4			4
1,2-Dichloroethene (Cis)	5	NA	µg/L			4			4			4			4			4
1,2-Dichloroethene (Trans)	5	NA	µg/L			4			4			4			4			4
1,2-Dichloropropane	5	0	µg/L			4			4			4			4			4
1,3-Dichloropropane	5	NA	µg/L			4			4			4			4			4
2,2-Dichloropropane	5	NA	µg/L			4			4			4			4			4
1,1-Dichloropropene	5	NA	µg/L			4			4			4			4			4
1,3-Dichloropropene (Cis)	5	NA	µg/L			4			4			4			4			4
1,3-Dichloropropene (Trans)	5	NA	µg/L			4			4			4			4			4
Ethylbenzene	5	NA	µg/L			4			4			4			4			4
Hexachlorobutadiene	5	NA	µg/L			4			4			4			4			4
Isopropylbenzene	5	NA	µg/L			4			4			4			4			4
p-Isopropyltoluene	5	NA	µg/L			4			4			4			4			4

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	Regulatory Limit	EPA / NYS MCLG	Units	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024
Methyl Tert-butyl ether (MTBE)	10	NA	µg/L	Not Detected		4	Not Detected		4	Not Detected		4	Not Detected		4	Not Detected		4
Methylene Chloride (Dichloromethane)	5	0	µg/L			4			4			4			4			
n-Propylbenzene	5	NA	µg/L			4			4			4			4			
Styrene	5	NA	µg/L			4			4			4			4			
1,1,1,2-Tetrachloroethane	5	NA	µg/L			4			4			4			4			
1,1,2,2-Tetrachloroethane	5	NA	µg/L			4			4			4			4			
Tetrachloroethene	5	0	µg/L			4			4			4			4			
Toluene	5	NA	µg/L			4			4			4			4			
1,2,3-Trichlorobenzene	5	NA	µg/L			4			4			4			4			
1,2,4-Trichlorobenzene	5	NA	µg/L			4			4			4			4			
1,1,1-Trichloroethane	5	NA	µg/L			4			4			4			4			
1,1,2-Trichloroethane	5	3	µg/L			4			4			4			4			
Trichloroethene	5	0	µg/L			4			4			4			4			
Trichlorofluoromethane	5	NA	µg/L			4			4			4			4			
1,2,3-Trichloropropane	5	NA	µg/L			4			4			4			4			
1,2,4-Trimethylbenzene	5	NA	µg/L			4			4			4			4			
1,3,5-Trimethylbenzene	5	NA	µg/L			4			4			4			4			
Vinyl Chloride	2	0	µg/L			4			4			4			4			
Xylenes	5	NA	µg/L			4			4			4			4			
Organics, Pesticides, & Herbicides:																		
1,2-Dibromo-3-Chloropropane (DBCP)	200	0	ng/L	Not Detected		1	Not Detected		1	Not Detected		1	Not Detected		1	Not Detected		1
1,2-Dibromoethane (EDB)	50	0	ng/L			1			1			1			1			
3,5-Dichlorobenzoic Acid	50	NS	µg/L			1			1			1			3			
Acifluorfen	50	NS	µg/L			1			1			1			3			
Alachlor	2	0	µg/L			4			4			4			4			
Aldicarb	3	1	µg/L			1			1			1			1			
Aldicarb Sulfone	2	1	µg/L			1			1			1			1			
Aldicarb Sulfoxide	4	1	µg/L			1			1			1			1			
Aldrin	5	NA	µg/L			3			3			3			4			
Atrazine	3	3	µg/L			4			4			4			4			
Baygon	50	NS	µg/L			1			1			1			1			
Bentazon	50	NS	µg/L			1			1			1			3			
Benzo(a)pyrene	200	0	ng/L			4			4			4			4			
Bis(2-Ethylhexyl)Phthalate (DEHP)	6	0	µg/L			4			4			4			4			

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Butachlor	50	NA	µg/L	Not Detected		4	Not Detected		4	Not Detected		4	Not Detected		4	Not Detected		4
Carbaryl	50	NA	µg/L			1			1			1			1			1
Carbofuran	40	40	µg/L			1			1			1			1			1
Chlordane	2	NA	µg/L			4			4			4			4			4
Dalapon	50	NA	µg/L			1			1			1			1			1
Di(2-Ethylhexyl) Adipate	50	NA	µg/L			4			4			4			4			4
Dicamba	50	NA	µg/L			1			1			1			1			4
2,4-D	50	NA	µg/L			1			1			1			1			1
Dieldrin	5	NA	µg/L			4			4			4			4			4
Dinoseb	7	7	µg/L			1			1			1			1			4
2,3,7,8-TCDD (Dioxin)	30	0	pg/L			1			1			1			1			1
1,4-Dioxane	1	NA	µg/L			4			4			4			4			4
Diquat	20	20	µg/L			1			1			1			1			1
Endothall	50	NA	µg/L			1			1			1			1			1
Endrin	2	2	µg/L			4			4			4			4			4
Glyphosate	50	700	µg/L			1			1			1			1			1
Heptachlor	400	0	ng/L			4			4			4			4			4
Heptachlor Epoxide	200	0	ng/L			4			4			4			1			4
Hexachlorobenzene	1	0	µg/L			4			4			4			4			4
Hexachlorocyclopentadiene	5	NA	µg/L			4			4			4			4			4
3-Hydroxycarbofuran	50	NS	µg/L			1			1			1			1			1
Isophorone	50	NA	µg/L			4			4			4			4			4
Lindane (gamma-BHC)	200	200	ng/L			4			4			4			4			4
Methomyl	50	NA	µg/L			1			1			1			1			1
Methoxychlor	40	40	µg/L			4			4			4			4			4
Metolachlor	50	NA	µg/L			3			3			3			3			3
Metribuzin	50	NA	µg/L			4			4			4			4			4
Oxamyl	50	NA	µg/L			1			1			1			1			1
p,p' DDD	5	NA	µg/L			4			4			4			4			4
p,p' DDE	NS	NS	µg/L			4			4			4			4			4
p,p' DDT	5	NA	µg/L			4			4			4			4			4
PCB's Total	500	0	ng/L			4			4			4			4			4
Pentachlorophenol	1	0	µg/L			1			1			1			1			4
Perchlorate	NS	NS	µg/L			1			1			1			1			1

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Pichloram	50	NA	µg/L	Not Detected		1	Not Detected		1	Not Detected		1	Not Detected		1	Not Detected		4
Perfluorooctanoic Acid (PFOA)	10	NA	ng/L		4	4			8			4						
Perfluorooctanesulfaonic Acid (PFOS)	10	NA	ng/L		4	0.6	ND - 2.2	4	8			4						
Perfluorobutanoic acid (PFBA)	NS	NS	ng/L		4	0.7	ND - 2.9	4	8			4			0.5	ND - 2.0	4	
Propachlor	50	NA	µg/L		4	Not Detected		4	4			4			Not Detected		4	
Simazine	4	4	µg/L		4			4	4									
2,4,5-TP (Silvex)	10	NA	µg/L		1			1	1									
Total Chlordane	2	0	µg/L		4			4	4									
Toxaphene	3	0	µg/L		4			4	4									
Disinfection By-products:																		
Total Trihalomethanes (TTHMs)	80	NA	µg/L	42	17 - 84	52	42	17 - 84	52	42	12 - 65	8	42	17 - 84	52	42	12 - 65	8
				Maximum LRAA = 61			Maximum LRAA = 61			Maximum LRAA = 49			Maximum LRAA = 61			Maximum LRAA = 49		
Haloacetic Acids (HAA5)	60	NA	µg/L	12.2	ND - 31	52	12.2	ND - 31	52	9.9	ND - 27	8	12.2	ND - 31	52	9.9	ND - 27	8
				Maximum LRAA = 18.8			Maximum LRAA = 18.8			Maximum LRAA = 15.3			Maximum LRAA = 18.8			Maximum LRAA = 15.3		
UCMR5 - Per & Polyfluorinated Alkyl Acids (PFAS):				(2023 QTR 4 - 2024 QTR 3)														
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUds)	NS	NS	ng/L	Not Detected		4	Not Detected		4	Not Detected		2	Not Detected		4	Not Detected		4
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2FTS)	NS	NS	ng/L		4	4			2			4						
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)	NS	NS	ng/L		4	4			2			4						
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)	NS	NS	ng/L		4	4			2			4						
4, 8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	NS	ng/L		4	4			2			4						
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	NS	NS	ng/L		4	4			2			4						
Hexafluoropropylene oxide dimer acid (HFPO-DA) (GenX)	NS	NS	ng/L		4	4			2			4						
N-ethyl Perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NS	NS	ng/L		4	4			2			3						
N-methyl Perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NS	NS	ng/L		4	4			2			3						
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NS	NS	ng/L		4	4			2			4						
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	NS	NS	ng/L		4	4			2			4						
Perfluoro-3-methoxypropanoic acid (PFMPA)	NS	NS	ng/L		4	4			2			4						
Perfluoro-4-methoxybutanoic acid (PFMBA)	NS	NS	ng/L		4	4			2			4						
Perfluorobutanesulfonic acid (PFBS)	NS	NS	ng/L		4	4			2			4						
Perfluorooctanoic Acid (PFOA)	10	NA	ng/L		4	4			2			4						
Perfluorooctanesulfaonic Acid (PFOS)	10	NA	ng/L		4	4			2			4						
Perfluorobutanoic acid (PFBA)	NS	NS	ng/L		4	4			2									
Perfluorodecanoic acid (PFDA)	NS	NS	ng/L		4	4			2			4						
Perfluorododecanoic acid (PHDoA)	NS	NS	ng/L		4	4			2			4						

Water Quality Monitoring Parameters				MCWA - SWTP			MCWA - WWTP			MCWA - CWTP			Rochester			ECWA - VWTP		
				Source - Lake Ontario			Source - Lake Ontario			Source - Groundwater Well(s)			Source - Hemlock Lake			Source - Lake Erie		
	Regulatory Limit	EPA / NYS MCLG	Units	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024	Average	Range	Samples in 2024
Perfluoroheptanesulfonic acid (PFHpS)	NS	NS	ng/L	Not Detected		4	Not Detected		4	Not Detected		2	Not Detected		4	Not Detected		4
Perfluoroheptanoic acid (PFHpA)	NS	NS	ng/L			4			4			2			4			
Perfluorohexanesulfonic acid (PFHxS)	NS	NS	ng/L			4			4			2			4			
Perfluorohexanoic acid (PFHxA)	NS	NS	ng/L			4			4			2			4			
Perfluorononanoic acid (PFNA)	NS	NS	ng/L			4			4			2			4			
Perfluoropentanesulfonic acid (PFPeS)	NS	NS	ng/L			4			4			2			4			
Perfluoropentanoic acid (PFPeA)	NS	NS	ng/L			4			4			2			4			
Perfluorotetradecanoic acid (PFTA)	NS	NS	ng/L			4			4			2			4			
Perfluorotridecanoic acid (PFTrDA)	NS	NS	ng/L			4			4			2			4			
Perfluoroundecanoic acid (PFUnA)	NS	NS	ng/L			4			4			2			4			
<u>UCMR5 - Metal / Pharmaceutical:</u>				(2023 QTR 4 - 2024 QTR 3)														
Lithium	NS	NS	µg/L	Not Detected		4	Not Detected		4	ND - 12.1		2	Not Detected		4	Not Detected		4
Key Terms, Abbreviations, & Notes:																		
MCL = Maximum Contaminant Level - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as possible. MCLG = Maximum Contaminant Level Goal - The level of a contaminant below which there is no known or expected risk to health. MCLGs allow for a margin of safety. TT = Treatment Technique - A required process intended to reduce the level of a contaminant in drinking water. AL¹ = Action Level - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. If >10% of results are greater than 15 µg/l for lead or 1300 µg/L for copper, remediative steps are required. In MCWA's combined retail area, 90% of the samples were less than 14.2 µg/L for lead and 210 µg/L for copper. For MCWA's customers in the towns of Pembroke and Darien and the village of Corfu, 90% of the samples were less than 0.54 µg/L for lead and 81 µg/L for copper. LRAA = Locational Running Annual Average - The annual average contaminant concentration at a monitoring site. mg/L = Milligram (1/1,000 of a gram) per Liter = ppm = parts per million NA = Not Applicable NR = Not Required / Not Reported NS = No Standard NT = Not Tested Not Detected = ND = Absent or present at less than the testing method detection level. All testing methods are EPA-approved with detection limits much less than the MCL. NTU = Nephelometric turbidity Unit. A measure of the clarity of water. µg/L = Microgram (1/1,000,000 of a gram) per Liter = ppb = parts per billion ng/L = Nanogram (1/1,000,000,000 of a gram) per Liter = ppt = parts per trillion pg/L = Picogram (1/1,000,000,000,000 of a gram) per Liter = ppq = parts per quadrillion pCi/L = PicoCuries per Liter									MCWA - SWTP = Monroe County Water Authority - Shoremont Water Treatment Plant. MCWA - WWTP = Monroe County Water Authority - Webster Water Treatment Plant. MCWA - CWTP = Monroe County Water Authority - Corfu Water Treatment Plant. Rochester = City of Rochester - Hemlock Water Filtration Plant. MCWA purchases water from Rochester's water system. ECWA - VWTP = Erie County Water Authority - Van de Water and Sturgeon Point Water Treatment Plants. MCWA purchases water from the ECWA's water supply system. MF/L = Million Fibers per Liter. A measure of the presence of asbestos fibers longer than 10 micrometers. (year) = Most recent testing. Monitoring frequency requirements vary depending on compound. UCMR5 = Unregulated Contaminant Monitoring Rule 5 - EPA required monitoring of up to 30 unregulated water quality parameters to establish baseline occurrence data. EPA combines this data with research to establish future regulations. µmhos/cm = Microohms per Centimeter Cont = Continuously monitored via online measurements. TT² = 95% of measurements within a given month must be less than 0.3 NTUs. TT³ = Average of monthly distribution system turbidity samples must be less than 5.0 NTUs. 4⁴ = 95% of monthly distribution system samples must have a measurable chlorine residual. TT⁵ = No more than 5% of monthly samples can be positive. Note: Total Hardness is also expressed in grains per gallon. The total hardness of the Ontario, Hemlock, & Erie lake supplies are 7.2, 7.3, 5.9, and 6.9 grains per gallon. The total hardness of the Corfu aquifer supply is 10.7 grains per gallon.									