



Monroe County Water Authority

2008 Water Quality Monitoring Program Summary

If you have any questions on this report, please call our Customer Service Department at (585) 442-7200.

Parameter	Shoremont WTP Lake Ontario			Corfu WTP Well			Hemlock WTP Hemlock Lake			ECWA Lake Erie			City of Batavia WTP Ground Water			Town of Ontario WTP Lake Ontario				
	EPA/NYS MCL	EPA/NYS MCLG	UNITS	Average	Range	samples in 2008	Average	Range	samples in 2008	Average	Range	samples in 2008	Average	Range	samples in 2008	Average	Range	samples in 2008		
Inorganics, Metals, Physical Parameters																				
Aluminum	NS	NS	ug/L	47	ND-98	4	190	103-242	3	54	ND-73	4	203	32-420	4	NA			NR	
Antimony	6	6	ug/L	ND		4	ND		3	ND		4	ND		4	ND		1	<0.001	
Arsenic	10	NA	ug/L	ND		4	ND		3	ND		4	ND		4	ND		1	<0.001	
Barium	2	2	mg/L	0.020	0.019-0.022	4	0.066	0.052-0.088	3	0.017	0.015-0.019	4	0.021	0.020-0.023	4	0.015		1	0.024	
Beryllium	4	4	ug/L	ND		4	ND		3	ND		4	ND		2	ND		1	<0.001	
Cadmium	5	5	ug/L	ND		4	ND		3	ND		4	ND		4	ND		1	<0.001	
Calcium	NS	NS	mg/L	34	32-35	4	29	26-29	3	26	25-27	4	33	32-33	4	NA			NR	
Chromium	100	100	ug/L	ND		3	ND		3	ND		4	ND		4	ND		1	<0.001	
Copper (Distribution System)	NS	NS	mg/L	ND		4	ND		3	0.0033	ND-0.0052	4	ND	ND-0.002	4	ND		1	NR	
Copper (Customer Tap Samples)	AL* = 1.3	1.3	mg/L	54	.008-0.270	50(2006)	0.039	0.038-0.043	3	54	0.008-0.270	50(2006)	0.039	0.038-0.043	3	0.036	ND-0.061	30(2007)	0.036	0.004-0.076
Cyanide	200	200	ug/L	ND		4	ND		3	ND		4	ND		4	ND		1	<0.01	
Fluoride	2.2	NA	mg/L	0.8	0.3-1.4	2155	0.8	0.2-1.0	106	0.9	0.2-1.0	365	0.8	0.2-1.0	106	0.80	0.1-1.1	52	0.9	0.80-1.10
Iron	300	NA	ug/L	ND		4	ND		3	ND	ND-0.024	4	ND		4	ND		1	NR	
Lead (Distribution System)	NS	NS	ug/L	ND		4	ND		3	ND		4	ND	ND-1.1	4	ND		1	NR	
Lead (Customer Tap Samples)	AL* = 15	0	ug/L	1.8	ND-9	50(2006)	0.8	ND - 4.8	20(2006)	1.8	ND-9	50(2006)	0.8	ND - 4.8	20(2006)	3.8	ND-26	30(2007)	0.0014	ND - 2.8
Magnesium	NS	NS	mg/L	9	8.7-9.2	4	12.0	10-14	3	6.5	6.4-6.7	4	9	8.9-9	2	17		1	NR	
Manganese	300	NA	ug/L	ND		4	5	4.2-5.8	3	ND		1	4.6	2.2-11	4	ND		1	NR	
Mercury	2	2	ug/L	ND		4	ND		3	ND		4	ND		4	ND		1	<0.0002	
Nickel	100	NA	ug/L	ND		4	ND		3	ND		4	ND		4	ND		1	0.0025	
Nitrate	10	10	mg/L	0.36	0.36-0.45	4	ND		3	0.16	0.015-0.6	3	0.23	ND-0.41	4	0.88		1	0.63	
Nitrite	1	1	mg/L	ND		4	ND		3	ND		4	ND		4	ND		1	NR	
Potassium	NS	NS	mg/L	1.5		2	0.2	ND-0.44	2	1.4		1	1.6	1.5-1.6	2	NA			<0.001	
Selenium	50	50	ug/L	ND		4	ND		3	ND		4	ND		4	ND		1	NR	
Silica	NS	NS	mg/L	0.9	0.79-1.7	4	20		2	3	2.6-3.1	4	1.2	0.51-2.6	4	5.3		1	NR	
Silver	100	NA	ug/L	ND		4	ND		3	ND		4	ND		4	ND		1	NR	
Sodium	NS	NS	mg/L	13		2	110		3	18		2	15	14-16	3	44		1	NR	
Sulfate	250	NA	mg/L	28	27-29	2	57	57-56	2	15	14-17	4	24		1	39		1	NR	
Thallium	2	0.5	ug/L	ND		4	ND		3	ND		4	ND		4	ND		1	<0.001	
Zinc	5	NA	mg/L	ND		4	ND		3	ND		4	ND		4	ND		1	NR	
Alkalinity	NS	NA	mg/L	82	60-110	4	190	103-242	3	54	36-64	3	104	82-147	4	54		1	93	89-96
Chlorides	250	NA	mg/L	26	24-27	4	41	40-44	3	44	34-73	4	30	22-48	4	90		1	NR	
Color	15	NA	Color Units	ND		4	ND		3	ND		4	ND	ND-3	4	2		1	NR	
Conductivity	NS	NS	umhos/cm	290	210-380	3680	650	580-760	20	290	210-380	3680	290	280-320	38	400	320-600	44	NR	
pH	NS	NS	pH units	7.4	7.1-7.7	364	7.5	7.2-7.8	113	7.6	6.9-8.4	359	NR		9.1	8.9-9.2	366	7.55	7.45-7.85	
Total Dissolved Solids	NS	NS	mg/L	180	160-200	4	320	180-410	3	170	160-180	3	170	160-180	4	270		1	NR	
Total Hardness	NS	NS	mg/L	122	116-130	4	121	106-148	3	91	89-95	4	120		1	100		1	NR	
Total Organic Carbon	NS	NS	mg/L	1.8	1.5-2.3	4	0.7	0.6-0.8	3	2	1.9-2.3	4	2.2	1.8-2.8	4	0.5	ND-1.4	12	1.7	<1.0-2.0
Surfactants	NS	NS	mg/L	ND		4	ND		3	ND		4	ND		4	NA			NR	
Turbidity - Entry Point	TT **	NA	NTUs	0.05	0.04-0.13	Continuous	NA			0.07	0.04-0.29	Continuous	0.1	0.07-0.19	48	NA			0.04	0.024-0.074
Turbidity - Distribution System	TT ***	NA	NTUs	0.12	0.04-3.2	4374	0.11	0.05-0.68	154	0.12	0.04-3.2	4374	0.11	0.05-0.68	154	0.1	0.04-1.1	52	0.11	0.065-0.545
Chlorine Residual - Entry Point	NA	NA	mg/L	1.0	0.7-1.5	Continuous	0.8	0.5-1.0	114	0.91	0.7-1.5	Continuous	0.9	0.2-1.5	48	NA			0.9	0.80-1.05
Chlorine Residual - Retail Dist.Sys	TT ****	NA	mg/L	0.5	0-1.6	4364	0.6	0-1.5	154	0.5	0-1.6	4364	0.6	0-1.5	154	0.5	0.2-0.8	52	0.7	0.05-1.05
Coliform - Retail Dist.System	TT *****	0	%Positive	0.03%		3060	0.6%		154	0.07%		1321	0.6%		154	ND		52	ND	
Cryptosporidium	NS	NS	#Positive	ND		4	NR			ND		4	ND		21	NA			NR	
Giardia	NS	NS	#Positive	ND		4	NR			ND		4	ND		21	NA			NR	
Asbestos (Distribution System)	7	7	MFL	ND		1 (2007)	ND		1 (2007)	ND		1 (2007)	ND		1 (2007)	NR			NR	
Radionuclides																				
Gross Alpha	15	0	pCi/L	ND		1(2003)	ND		1(2003)	ND		1(2005)	0.4		4(2003)	0.029		1(2000)	ND	1(2007)
Gross Beta	50	0	pCi/L	ND		1(2003)	ND		1(2003)	ND		1(2005)	1.7		4(2003)	1.2		1(2000)	ND	1(2007)
Tritium	NS	NS	pCi/L	ND		1(2003)	ND		1(2003)	NR			NR		NR	NR			NR	
Combined Radium226/228	5	0	pCi/L	ND		1(2003)	ND		1(2003)	NR		0.45	ND - 1.4	8(2004)	0.15			1(2000)	NR	
Uranium	30	0	ug/L	ND		4(2004)	ND		3(2003)	NR		0.4	0.3 - 0.5	8(2004)	NR			NR	NR	

Parameter	EPA/NYS MCL	EPA/NYS MCLG	UNITS	Shoremont WTP Lake Ontario			Corfu WTP Well			Hemlock WTP Hemlock Lake			ECWA Lake Erie			City of Batavia WTP Ground Water			Town of Ontario WTP Lake Ontario		
				Average	Range	samples in 2008	Average	Range	samples in 2008	Average	Range	samples in 2008	Average	Range	samples in 2008	Average	Range	samples in 2008	Average	Range	samples in 2008
Volatile Organics																					
Benzene	5	0	ug/L			4			3			4			1			1			1
Bromobenzene	5	NA	ug/L			4			3			4			1			1			1
Bromochloromethane	5	NA	ug/L			4			3			4			1			1			1
Bromomethane	5	NA	ug/L			4			3			4			1			1			1
n-Butylbenzene	5	NA	ug/L			4			3			4			1			1			1
sec-Butylbenzene	5	NA	ug/L			4			3			4			1			1			1
tert-Butylbenzene	5	NA	ug/L			4			3			4			1			1			1
Carbon Tetrachloride	5	0	ug/L			4			3			4			1			1			1
Chlorobenzene	5	NA	ug/L			4			3			4			1			1			1
Chloroethane	5	NA	ug/L			4			3			4			1			1			1
Chloromethane	5	NA	ug/L			4			3			4			1			1			1
2-Chlorotoluene	5	NA	ug/L			4			3			4			1			1			1
4-Chlorotoluene	5	NA	ug/L			4			3			4			1			1			1
Dibromomethane	5	NA	ug/L			4			3			4			1			1			1
1,2-Dichlorobenzene	5	NA	ug/L			4			3			4			1			1			1
1,3-Dichlorobenzene	5	NA	ug/L			4			3			4			1			1			1
1,4-Dichlorobenzene	5	NA	ug/L			4			3			4			1			1			1
Dichlorodifluoromethane	5	NA	ug/L			4			3			4			1			1			1
1,1-Dichloroethane	5	NA	ug/L			4			3			4			1			1			1
1,2-Dichloroethane	5	0	ug/L			4			3			4			1			1			1
1,1-Dichloroethene	5	NA	ug/L			4			3			4			1			1			1
cis-1,2-Dichloroethene	5	NA	ug/L			4			3			4			1			1			1
trans-1,2-Dichloroethene	5	NA	ug/L			4			3			4			1			1			1
1,2-Dichloropropane	5	0	ug/L			4			3			4			1			1			1
1,3-Dichloropropane	5	NA	ug/L			4			3			4			1			1			1
2,2-Dichloropropane	5	NA	ug/L			4			3			4			1			1			1
1,1-Dichloropropene	5	NA	ug/L			4			3			4			1			1			1
1,3-Dichloropropene(Cis)	5	NA	ug/L			4			3			4			1			1			1
1,3-Dichloropropene(Trans)	5	NA	ug/L			4			3			4			1			1			1
Ethylbenzene	5	NA	ug/L			4			3			4			1			1			1
Hexachlorobutadiene	5	NA	ug/L			4			3			4			1			1			1
Isopropylbenzene	5	NA	ug/L			4			3			4			1			1			1
p-Isopropyltoluene	5	NA	ug/L			4			3			4			1			1			1
Methyl Tert-butyl ether (MTBE)	50	NA	ug/L			4			3			4			1			1			1
Methylene Chloride (Dichloromethane)	5	0	ug/L			4			3			4			1			1			1
n-Propylbenzene	5	NA	ug/L			4			3			4			1			1			1
Styrene	5	NA	ug/L			4			3			4			1			1			1
1,1,1,2-Tetrachloroethane	5	NA	ug/L			4			3			4			1			1			1
1,1,2,2-Tetrachloroethane	5	NA	ug/L			4			3			4			1			1			1
Tetrachloroethene	5	0	ug/L			4			3			4			1			1			1
Toluene	5	NA	ug/L			4			3			4			1			1			1
1,2,3-Trichlorobenzene	5	NA	ug/L			4			3			4			1			1			1
1,2,4-Trichlorobenzene	5	NA	ug/L			4			3			4			1			1			1
1,1,1-Trichloroethane	5	NA	ug/L			4			3			4			1			1			1
1,1,2-Trichloroethane	5	3	ug/L			4			3			4			1			1			1
Trichloroethene	5	0	ug/L			4			3			4			1			1			1
Trichlorofluoromethane	5	NA	ug/L			4			3			4			1			1			1
1,2,3-Trichloropropane	5	NA	ug/L			4			3			4			1			1			1
1,2,4-Trimethylbenzene	5	NA	ug/L			4			3			4			1			1			1
1,3,5-Trimethylbenzene	5	NA	ug/L			4			3			4			1			1			1
Xylenes	5	NA	ug/L			4			3			4			1			1			1
Vinyl chloride	2	0	ug/L			4			3			4			1			1			1

Not Detected

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Parameter	Shoremont WTP Lake Ontario			Corfu WTP Well			Hemlock WTP Hemlock Lake			ECWA Lake Erie			City of Batavia WTP Ground Water			Town of Ontario WTP Lake Ontario					
	EPA/NYS MCL	EPA/NYS MCLG	UNITS	Average	Range	samples in 2008	Average	Range	samples in 2008	Average	Range	samples in 2008	Average	Range	samples in 2008	Average	Range	samples in 2008			
Organics, Pesticides, Herbicides																					
Caffeine	NS	NS	ng/L	4		1	NR		NR		1	NR		NR				NR			
Cotinine	NS	NS	ng/L	2.1		1	NR		NR		1	NR		NR				NR			
Triclosan	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Carbamazepine	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Estrone	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Estradiol	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Ethinyl Estradiol	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Progesterone	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Testosterone	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
gemfibrozil	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Ibuprofen	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Iopromide	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Acetaminophen	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Diazepam	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Fluoxetine	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Sulfamethoxazole	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Trimethoprim	NS	NS	ng/L			1	NR		NR		1	NR		NR				NR			
Bis(2-Ethylhexyl)Phthalate	6	0	ug/L			4					4		3	0.9				1			
Atrazine	3	3	ug/L			4					4		3					1			
1, 2-Dibromo-3-Chloropropane	200	0	ng/L			1					1		1					1			
1, 2-Dibromoethane (EDB)	50	0	ng/L			1					1		1					1			
2, 4, 5-TP (Silvex)	10	NA	ug/L			1					1		1					1			
2, 4-D	50	NA	ug/L			1					1		1					1			
3-Hydroxycarbofuran	50	NS	ug/L			1					1		1					1			
Alachlor	2	0	ug/L			4					4		3					1			
Aldicarb	3	1	ug/L			1					1		1					1			
Aldicarb Sulfone	2	1	ug/L			1					1		1					1			
Aldicarb Sulfoxide	4	1	ug/L			1					1		1					1			
Aldrin	5	NA	ug/L			4					4		3					1			
Benzo(a)pyrene	200	0	ng/L			4					4		3					1			
Butachlor	50	NA	ug/L			4					4		3					1			
Carbaryl	50	NA	ug/L			1					1		1					1			
Carbofuran	40	40	ug/L			1					1		1					1			
Dalapon	50	NA	ug/L			1					3		1					1			
DCPA, Mono & Di-Acid Degradate	50	NS	ug/L			1					3		1					NR			
Di(2-Ethylhexyl) Adipate	50	NA	ug/L			4					4		3					1			
Dicamba	50	NA	ug/L			1					3		1					1			
Dieldrin	5	NA	ug/L			4					4		3					1			
Dinoseb	7	7	ug/L			1					3		1					1			
Dioxin	30	0	pg/L			1					1		1					1			
Diquat	20	20	ug/L			1					1		1					1			
Endothal	50	NA	ug/L			1					1		1					1			
Endrin	2	2	ug/L			4					4		3					1			
Glyphosate	50	NA	ug/L			1					1		1					1			
Heptachlor	400	0	ng/L			4					4		3					1			
Heptachlor Epoxide	200	0	ng/L			4					4		3					1			
Hexachlorobenzene	1	0	ug/L			4					4		3					1			
Hexachlorocyclopentadiene	5	NA	ug/L			4					4		3					1			
Isophorone	50	NA	ug/L			4					4		3					NR			
Lindane (gamma-BHC)	200	200	ng/L			4					4		3					1			
Methomyl	50	NA	ug/L			1					1		1					1			
Methoxychlor	40	40	ug/L			4					4		3					1			
Metolachlor	50	NA	ug/L			4					4		3					1			
Metribuzin	50	NA	ug/L			4					4		3					1			
Oxamyl	50	NA	ug/L			1					1		1					1			
p,p' DDD	5	NA	ug/L			4					4		3					NR			
p,p' DDE	NS	NS	ug/L			4					4		3					NR			
p,p' DDT	5	NA	ug/L			4					4		3					NR			
PCB's Total	500	0	ng/L			4					4		3					1			
Pentachlorophenol	1	0	ug/L			4					4		3					1			
Pichloram	50	NA	ug/L			1					3		1					1			
Propachlor	50	NA	ug/L			4					4		3					1			
Simazine	4	4	ug/L			4					4		3					1			
Total Chlordane	2	0	ug/L			4					4		3					1			
Toxaphene	3	0	ug/L			4					4		3					1			
Perchlorate	NS	NS	ug/L			1					1		1					NR			
Disinfectant Byproducts																					
Total THMs	80	NA	ug/L	38	68-16	16	42	62-20	4	38	68-25	16	42	62-20	4	39	23-47	4	26.5	44-10	20
Haloacetic Acids	60	NA	ug/L	8	25-2	16	11	21-2	4	17	32-2	16	11	21-2	4	7	4-9.8	4	8.22	1.10-19	20

Not Detected

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