

**Table 1 - Microbiological Testing (Performed Under Regulation 170/03)**

<b>Type</b>	<b>MAC (E. Coli &amp; Total Coliforms)</b>	<b>Number of Samples</b>	<b>Range of E. Coli Results (Min - Max)</b>	<b>Range of Total Coliform Results (Min - Max)</b>	<b>Number of HPC Samples</b>	<b>Range of HPC Results (Min - Max)</b>
<b>Raw</b>	N/A	52	0	0	N/A	N/A
<b>Distribution System</b>	0	52	0	0	52	<10 - 50

Note: Total Coliforms are an indicator of adverse water quality if detected

**Table 2: Operational Testing (Performed under Schedule 7, 8, or 9 of Regulation 170/03)**

<b>Parameter</b>	<b>MAC</b>	<b>Number of Samples</b>	<b>Range of Results (min - max)</b>	<b>Parameter Description</b>
Raw Water Turbidity (NTU)	N/A	Continuous	0.04 - 1.04	Turbidity is a measure of particles in water.
Treated Water Turbidity (NTU)	N/A	Continuous	0.01 - 2.02	Recommended level of at least 0.20 mg/l in distribution system to maintain microbiological quality. 0.05 mg/l minimum required.
Treated Chlorine Residual (mg/L)	See Parameter Description	Continuous	1.26 - 2.79	Recommended level of at least 0.20 mg/l in distribution system to maintain microbiological quality. 0.05 mg/l minimum required.
Distribution System Chlorine Residual (mg/L)	See Parameter Description	Continuous	0.57 - 2.96	Turbidity is a measure of particles in water.

Note: Turbidity range determined through in house lab testing

**Table 3: Treated Water Schedule 23 Inorganic Parameters**

Parameter	MAC	Number of Samples	Results Range (min - max)	MAC Exceedance (Yes or No)	Parameter Description
Antimony (mg/L)	0.006	1	<0.0001	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (mg/L)	0.025	1	<0.0001	No	Naturally occurring in surface waters / mine drainage
Barium (mg/L)	1	1	0.206	No	Erosion of natural deposits. Discharge from metal refineries, oil drilling wastes.
Boron (mg/L)	5	1	0.071	No	Erosion of natural deposits, industrial waste effluents.
Cadmium (mg/L)	0.005	1	<0.00015	No	Industrial discharge
Chromium (mg/L)	0.05	1	<0.002	No	Industrial residues
Mercury (mg/L)	0.001	1	<0.00002	No	Erosion of natural deposits, industrial discharges.
Selenium (mg/L)	0.01	1	< 0.001	No	Discharge from refineries, mines, chemical manufacture
Uranium (mg/L)	0.02	1	0.00157	No	Erosion of natural deposits.

**Table 4: Treated Water Schedule 24 Inorganic Parameters**

Parameter	MAC	Number of Samples	Results Range (min - max)	MAC Exceedance (Yes or No)	Parameter Description
Alachlor (µg/L)	5	1	<0.3	No	Agricultural herbicide
Atrazine + N-Dealkylated Metabolites (µg/L)	5	1	<0.5	No	Agricultural herbicide
Azinphos-methyl (µg/L)	20	1	<1	No	Insecticide
Benzene (µg/L)	5	1	<0.5	No	Discharge from plastics manufacturing, leaking fuel tanks
Benzo(a)pyrene (µg/L)	0.01	1	<0.006	No	Formed from the incomplete burning of organic matter.
Bromoxynil (µg/L)	5	1	<0.5	No	Agricultural herbicide
Carbaryl (µg/L)	90	1	<3	No	Agricultural/Forestry/ Household insecticide
Carbofuran (µg/L)	90	1	<1	No	Agricultural insecticide
Carbon Tetrachloride (µg/L)	5	1	<0.2	No	Discharge from chemical and industrial activities
Chlorpyrifos (µg/L)	90	1	<0.5	No	Agricultural/ Household insecticide
Diazinon (µg/L)	20	1	<1	No	Agricultural/ Livestock Operation/ Residential insecticide

Parameter	MAC	Number of Samples	Results Range (min - max)	MAC Exceedance (Yes or No)	Parameter Description
Dicamba ( $\mu\text{g/L}$ )	120	1	<10	No	Agricultural herbicide
1,2-Dichlorobenzene ( $\mu\text{g/L}$ )	200	1	<0.5	No	Discharge from industrial chemical factories
1,4-Dichlorobenzene ( $\mu\text{g/L}$ )	5	1	<0.5	No	Discharge from industrial chemical factories
1,2-Dichloroethane ( $\mu\text{g/L}$ )	5	1	<0.5	No	Discharge from industrial chemical factories
1,1-Dichloroethylene ( $\mu\text{g/L}$ )	14	1	<0.5	No	Discharge from industrial chemical factories
Dichloromethane ( $\mu\text{g/L}$ )	50	1	<5	No	Discharge from pharmaceutical and chemical factories
2,4-Dichlorophenol ( $\mu\text{g/L}$ )	900	2	< 0.2	No	Industrial contamination/ reaction with chlorine
2,4-Dichlorophenoxy Acetic Acid ( $\mu\text{g/L}$ )	100	1	<10	No	Agricultural/ Residential herbicide
Diclofop-methyl ( $\mu\text{g/L}$ )	9	1	<0.9	No	Agricultural herbicide
Dimethoate ( $\mu\text{g/L}$ )	20	1	<1	No	Agricultural/ Livestock Operation/ Forestry insecticide
Diquat ( $\mu\text{g/L}$ )	70	1	<5	No	Agricultural/ Aquatic herbicide

Parameter	MAC	Number of Samples	Results Range (min - max)	MAC Exceedance (Yes or No)	Parameter Description
Diuron (µg/L)	150	1	<5	No	Agricultural/ Industrial/ herbicide
Glyphosate (µg/L)	280	1	<25	No	Agricultural/Forestry/ Household herbicide
Malathion (µg/L)	190	1	<5	No	Fruit & Vegetable / pest control insecticide
2-methyl-4-chlorophenoxyacetic Acid (µg/L)	0.1	1	<0.1	No	Leaching and/or runoff from agricultural and other uses
Metolachlor (µg/L)	50	1	<3	No	Agricultural herbicide
Metribuzin (µg/L)	80	1	<3	No	Agricultural herbicide
Monochlorobenzene (µg/L)	80	1	<0.5	No	Discharge from industrial and agricultural chemical factories and dry cleaning facilities
Paraquat (µg/L)	10	1	<1	No	Agricultural/ Aquatic herbicide
Pentachlorophenol (µg/L)	60	1	<0.2	No	Pesticide/ wood preservative residue
Phorate (µg/L)	2	1	<0.3	No	Agricultural insecticide
Picloram (µg/L)	190	1	<15	No	Industrial herbicide

Parameter	MAC	Number of Samples	Results Range (min - max)	MAC Exceedance (Yes or No)	Parameter Description
Polychlorinated Biphenyls (µg/L)	3	1	<0.05	No	Residue from various industrial uses
Prometryne (µg/L)	1	1	<0.1	No	Agricultural herbicide
Simazine (µg/L)	10	1	<0.5	No	Agricultural herbicide or its residue
Terbufos (µg/L)	1	1	<0.5	No	Agricultural insecticide
Tetrachloroethylene (µg/L)	30	1	<0.5	No	Leaching from PVC pipes; discharge from factories, dry cleaners and auto shops (metal degreaser)
2,3,4,6-Tetrachlorophenol (µg/L)	100	1	<0.2	No	Wood preservative
Triallate (µg/L)	230	1	<10	No	Agricultural herbicide
Trichloroethylene (µg/L)	5	1	<0.5	No	Discharge from metal degreasing sites and other factories
2,4,6-Trichlorophenol (µg/L)	5	1	<0.2	No	Pesticide manufacturing
Trifluralin (µg/L)	45	1	<0.5	No	Agricultural herbicide
Vinyl Chloride (µg/L)	2	1	<0.2	No	Leaching from PVC pipes; discharge from plastics factories

**Table 5: Other Regulatory Treated Water Parameters**

<b>Parameter</b>	<b>MAC</b>	<b>Number of Samples</b>	<b>Results Range (min - max)</b>	<b>MAC Exceedance (Yes or No)</b>	<b>Parameter Description</b>
Fluoride (mg/L)	1.5	2	<0.1 - 0.2	No	Naturally occurring.
Nitrite (mg/L)	1	12	<0.1 - 0.1	No	A natural component of water at this level.
Nitrate (mg/L)	10	12	<0.1	No	Runoff from fertilizer use, erosion of natural deposits
Sodium (mg/L)	20	12	79.8 - 93.4	No	Occurs naturally in the earth's crust. Notification is required every 60 months if greater than 20 mg/L



**Table 6: Treated Water Testing (Analyzed by Accredited Laboratories)**

Parameter	MAC	Number of Samples	Results Range (min - max)	MAC Exceedance (Yes or No)	Parameter Description
Alkalinity CaCO <sub>3</sub> (mg/L)	N/A	1	315	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Aluminum (mg/L)	0.1 OG	2	0.07	No	Naturally occurring in surface waters / mine drainage
Ammonia Nitrogen (mg/L)	N/A	1	<0.01	No	Erosion of natural deposits. Discharge from metal refineries, oil drilling wastes.
Benzo(a)pyrene (µg/L)	0.01	1	<0.006	No	Formed from the incomplete burning of organic matter
Calcium (mg/L)	N/A	1	107	No	Erosion of natural deposits, industrial waste effluents.
Chloride (mg/L)	250	1	187	No	Industrial discharge
Colour (TCU)	5	12	<2	No	Industrial residues
Conductivity (Us/cm)	N/A	1	1230	No	Erosion of natural deposits, industrial discharges.
Hardness mg/L	100 OG	12	446 - 560	No	Naturally occurring from dissolved calcium and magnesium.
Iron (mg/L)	0.3 AO	12	<0.005 - 0.007	No	Leaching from natural deposits and plumbing materials, industrial wastes. (Aesthetic objective)
Manganese (mg/L)	0.05 AO	12	0.001 - 0.042	No	Erosion of natural deposits.
Sulphate (mg/L)	500 OG	1	45	No	An inorganic constituent that may cause tastes at high levels.
Total Kjeldahl Nitrogen (mg/L)	N/A	1	<0.1	No	Indicator of organic contamination or the potential for taste and odour problems
Zinc (mg/L)	5	1	< 0.005	No	An inorganic constituent that may cause tastes.

**Table 7: Regulatory Distribution Water Testing**

Parameter	MAC	Number of Samples	Results Range (min - max)	MAC Exceedance (Yes or No)	Parameter Description
Alkalinity CaCO <sub>3</sub> (mg/L)	N/A	2	312 - 338	No	A measure of the resistance of the water to the effects of acids. Expressed as calcium carbonate.
Total Haloacetic Acids (mg/L)	0.08 (Annual avg.)	4	<0.0053 - 0.006	No	By-product of drinking water disinfection with chlorine. Based on a running annual average
Lead (mg/L)	0.01	2	<0.00017 - 0.00080	No	Internal corrosion of household plumbing, erosion of natural deposits.
pH	6.5 - 8.5 OG	2	7.73 - 7.74	No	An indicator of the acidity of water.
Total Trihalomethanes (µg/L)	100 (Annual avg.)	4	17.0 - 20.0	No	By-product of chlorination. * The MAC for THMs of 100 µg/L is based on a running annual average.

**Table 8: Distribution Water Testing (Analyzed by Accredited Laboratories)**

Parameter	MAC	Number of Samples	Results Range (min - max)	MAC Exceedance (Yes or No)	Parameter Description
Benzo(a)pyrene (µg/L)	0.01	0	N/A	No	Formed during the combustion of organic matter
Copper (mg/L)	1 OG	0	N/A	No	Domestic plumbing (Aesthetic objective)
Cyanide (mg/L)	0.2	0	N/A	No	Compound used in a variety of industrial processes
Fluoride (mg/L)	1.5	2	<0.1 - 0.2	No	Naturally occurring.
Gross Alpha (bg/L)	0.5	0	N/A	No	Measure of radioactivity
Gross Beta (bg/L)	1	0	N/A	No	Measure of radioactivity
Nitilotriacetic Acid (mg/L)	0.4	0	N/A	No	A human made organic compound
Nitrosodimethylamine (µg/l)	0.0009	0	N/A	No	An organic chemical often found as an industrial biproduct
Tritium (bg/L)	7000	0	N/A	No	A form of hydrogen

**Table 9: Raw Water Testing (Analyzed by In House Laboratory)**

<b>Parameter</b>	<b>MAC</b>	<b>Number of Samples</b>	<b>Average Results</b>	<b>MAC Exceedance (Yes or No)</b>	<b>Parameter Description</b>
Alkalinity (mg/L)	N/A	10	441	No	A measure of the resistance of the water to the effects of acids. Expressed as calcium carbonate.
Hardness (mg/L)	N/A	12	440	No	Naturally occurring from dissolved calcium and magnesium.
pH	N/A	45	7.4	No	An indicator of the acidity of water

**Table 10: Treated Water Testing (Analyzed by In House Laboratory)**

Parameter	MAC	Number of Samples	Average Results	MAC Exceedance (Yes or No)	Parameter Description
Alkalinity (mg/L)	N/A	12	427	No	A measure of the resistance of the water to the effects of acids. Expressed as calcium carbonate.
Turbidity (NTU)	N/A	44	0.25	No	Turbidity is a measure of particles in water.
Hardness (mg/L)	100 OG	12	394	No	Naturally occurring from dissolved calcium and magnesium.
pH	6.5 - 8.5 OG	44	7.39	No	An indicator of the acidity of water.