

2018 Potable Water Quality Analysis

PARAMETER	Canadian Guideline Limit	Reason Guideline Established		PW77-2 Well 1/2			PW64-3 Well 3			PW99-6 Well 6/7			PW99-8 Well 8			PW07-9 Well 9			PW75-10 Well 10		
				Jan	May	Sept	Jan	May	Sept	Jan	May	Sept	Jan	May	Sept	Jan	May	Sept	Jan	May	Sept
pH	6.5-8.5	AO	Conventional Parameters in Water	7.27	6.97	6.66			6.64	8.06	6.80	6.85	8.03	6.86	6.84	8.05	6.99	6.75	7.84		6.79
Conductivity (uS/cm)	-			111	133	124			99.8	125	117	123	102	103	102	133	131	129	110		114
True Colour (Col. Unit)	15	AO		<5.0	<5.0	<5.0			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0
Turbidity (NTU)	1.0	OG		0.10	0.11	0.28			0.11	0.74	<0.10	0.56	<0.10	0.17	0.26	<0.10	0.10	<0.10	<0.10		<0.10
Hardness	-			45.8	53.5	49.3			40.8	54.4	51.8	51.6	45.7	46.9	43.6	59.9	59.3	55.3	44.3		47.1
Total Dissolved Solids	500	AO		60	89	75			61	70	104	82	53	79	70	82	85	73	70		86
Alkalinity as CaCO3	-		47.0	49.5	55.8			56.9	51.9	54.0	74.6	42.3	42.7	64.2	53.5	56.6	60.9	48.2		69.2	
Chloride	250	AO	2.61	9.04	5.44			1.32	0.90	0.84	1.25	0.53	0.77	0.76	1.20	1.49	1.38	0.69		1.39	
Sulphate	500	AO	7.9	7.3	8.2			7.5	9.2	9.1	9.5	6.5	7.3	7.5	9.5	9.7	9.5	5.8		7.1	
Ammonia	-		<0.020	0.039	0.078			0.033	<0.020	<0.020	0.039	0.068	0.028	0.042	0.048	0.057	0.07	0.033		0.026	
Nitrate	10	MAC	0.347	0.355	0.283			0.19	0.112	0.123	0.167	0.125	0.171	0.147	0.169	0.214	0.231	0.494		0.182	
Nitrite	3.2	MAC	<0.010	<0.0050	<0.0050			<0.0050	<0.010	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010		<0.0050	
Fluoride	1.5	MAC	<0.10	<0.10	<0.10			<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10		<0.10	
Aluminum	0.1	OG	<0.0050	<0.0050	0.0073			0.0101	0.0063	0.0073	0.0155	0.0116	0.0110	0.0213	0.0083	0.0092	0.0065	<0.0050		0.0125	
Antimony	0.006	MAC	<0.00020	<0.00020	<0.00020			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	
Arsenic	0.01	MAC	<0.00050	<0.00050	<0.00050			<0.00050	0.0016	0.00192	0.00180	0.00074	0.00075	0.00071	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	
Barium	1.0	MAC	0.0123	0.0138	0.0135			0.0108	0.0131	0.0113	0.0125	0.0092	0.0096	0.0092	0.0112	0.0117	0.0114	0.0097		0.0104	
Boron	5.0	MAC	0.0130	0.0101	0.0085			0.0064	0.0104	0.0105	0.0066	0.0056	0.0089	<0.0050	0.0083	0.0102	0.0058	0.0115		0.0103	
Cadmium	0.005	MAC	<0.000010	<0.000010	<0.000010			<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	
Calcium	-		17.4	19.3	17.5			14.5	20.9	19.2	18.5	17.5	17.8	15.8	21.8	22.3	20.2	17.4		16.8	
Chromium	0.05	MAC	<0.00050	<0.00050	<0.00050			<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	
Copper	1.0	AO	0.00146	0.00298	0.00158			0.00289	0.00274	0.00171	0.00198	0.00051	0.00080	0.00044	0.00070	0.00057	0.00057	0.00308		0.00249	
Iron	0.3	AO	<0.010	<0.010	<0.010			<0.010	0.055	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		<0.010	
Lead	0.01	MAC	<0.00020	<0.00020	<0.00020			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	
Magnesium	-		1.72	1.86	1.78			1.4	1.91	1.72	1.79	1.49	1.45	1.36	1.82	1.76	1.69	1.64		1.6	
Manganese	0.05	AO	<0.00020	<0.00020	<0.00020			<0.00020	0.00023	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	
Mercury	0.001 mg/L	MAC	<0.000010	<0.000010	<0.000010			<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	
Nickel	-		<0.00040	<0.00040	<0.00040			<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00119	<0.00040	<0.00040		<0.00040	
Phosphorus	-		<0.050	<0.050	<0.050			<0.050	0.067	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050	
Potassium	-		0.76	0.81	0.73			0.61	0.85	0.82	0.81	0.64	0.61	0.6	0.71	0.70	0.67	0.71		0.66	
Selenium	0.01	MAC	<0.00050	<0.00050	<0.00050			<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	
Silicon	-		4.1	3.9	4.2			3.8	4.1	4.1	4.5	3.5	3.4	3.8	3.9	3.8	4.1	3.9		4.1	
Silver	-		<0.000050	<0.000050	<0.000050			<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050		<0.000050	
Sodium	200	AO	2.80	2.96	2.38			1.59	1.71	2.00	1.56	1.55	1.40	1.35	1.82	1.67	1.59	2.28		1.99	
Uranium	0.02	MAC	0.000028	0.000047	0.000034			0.000043	0.000118	0.000120	0.000136	0.000031	0.000040	0.000033	0.000063	0.000065	0.000062	0.000051		0.00006	
Zinc	5.0	AO	<0.0040	0.007	<0.0040			0.0064	<0.0040	0.0081	<0.0040	<0.0040	0.005	<0.0040	<0.0040	0.006	<0.0040	<0.0040		<0.0040	

NOTES:
 Measurements are in mg/L unless otherwise indicated
 Empty fields were not contained in analytical record.
 MAC = Maximum Acceptable Concentration
 AO = Aesthetic Objective
 OG = Operational Guideline
 GBHNR = Great Blue Heron Nature Reserve
 Exceeds limits