Whiskey Creek Surface Water Analysis
3474 Hebert Road - Crocker Creek

CDWG=Canadian Drinking Water Guidelines
OG= Operational Guidance Value
MAC=Maximum Acceptable Concentration
AO= Asthetic Objective.

Red font indicates non-compliance with Canadian Drinking Water Guidelines

	Units	CDWG		November 4 2014	March 25 2015	October 26 2015	October 12 2016	September 18 2017	October 25 2018	October 3 2019
Miscellaneous Inorganics										
Fluoride	mg/L	1.5	MAC	0.05	0.025	0.037	0.025	0.039	0.033	<0.05
Alkalinity (total as $CaCO_3$)	mg/L			36	32.1	44.1	38.6	46.2	42.8	41
Anions										
Dissolved Sulphate	mg/L	500	AO	1.5	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
Dissolved Chloride	mg/L	250	AO	3	2.7	2.3	2.6	2.3	3	8.8
Nitrite	mg/L	1	MAC	0.07	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.005
Miscellaneous										
Apparent Colour	Colour Unit			120	70	20	50	15	15	15
Tannins & Lignins	mg/L			2.5		0.2	0.86	0.75	0.43	0.35
Nutrients										
Total Ammonia	mg/L			<0.02	0.068	0.02	0.063	<0.020	<0.020	0.06
Physical Properties										
Conductivity	µS/cm			84	75	93.4	89.3	90.6	93	110
pH	pH	7.0:10.5	OG	7	7.44	7.8	7.68	7.76	7.74	7.55
TDS	mg/L	500	AO	78	70	70	86	88	72	78
Turbidity	NTU			1.3	0.56	0.24	0.23	0.15	0.17	0.15
Microbiological Parameters										
E.coli	MPN/100mL	<1	MAC	34.4	2	<1.0	<1.0	<1.0	1	0
Total Coliforms	MPN/100mL	<1	MAC	165.2	86	200.5	144.5	380	34	170
Calculated Parameters										
Total Hardness ($CaCO_3$)	mg/L			42	35	40.3	40.4	39.9	41	44.6
Nitrate	mg/L	10	MAC	0.13	0.072	0.066	0.128	0.028	<0.020	0.06
Elements										
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0000077	<0.000002
Total Metals										
Total Aluminum	mg/L	0.1	OG	0.145	0.0912	0.0242	0.0494	0.0131	0.0162	0.0143
Total Antimony	mg/L	0.006	MAC	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Arsenic	mg/L	0.01	MAC	0.0002	0.00013	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Barium	mg/L	1	MAC	0.00098	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Beryllium	mg/L			<0.00005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Bismuth	mg/L			<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Boron	mg/L	5	MAC	0.004	<0.05	<0.05	<0.050	<0.050	<0.050	<0.05
Total Cadmium	mg/L	0.005	MAC	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Chromium	mg/L	0.05	MAC	0.0009	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011
Total Cobalt	mg/L			<0.0001	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.0112	0.00379	0.00344	0.00451	0.00168	0.00206	0.0017
Total Iron	mg/L	0.3	AO	0.227	0.0983	0.0595	0.0863	0.0255	0.0395	0.0494
Total Lead	mg/L	0.01	MAC	0.0006	0.00021	0.00022	0.0003	<0.0002	<0.0002	<0.0002
Total Manganese	mg/L	0.05	AO	0.015	0.0063	0.0043	0.0032	<0.001	0.0019	0.0021
Total Molybdenum	mg/L			0.00014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Nickel	mg/L			0.0003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Selenium	mg/L	0.05	MAC	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Silicon	mg/L			8.44	9.03	10.4	8.27	8.79	8.9	8.8
Total Silver	mg/L			<0.00005	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.0261	0.0203	0.0239	0.023	0.0227	0.024	0.027
Total Thallium	mg/L			<0.00001	<0.00005	<0.00005	<0.00005	<0.00001	<0.00001	<0.00001
Total Tin	mg/L			0.0004	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Titanium	mg/L			0.0052	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Uranium	mg/L	0.02	MAC	<0.00001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Vanadium	mg/L			0.0026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zinc	mg/L	5	AO	0.0101	<0.005	0.0125	<0.005	<0.005	<0.005	<0.005
Total Zirconium	mg/L				<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			11.9	9.22	10.9	10.4	10.2	10.9	11.7
Total Magnesium	mg/L			3.02	2.92	3.15	3.49	3.48	3.35	3.71
Total Potassium	mg/L			0.1	0.135	0.161	0.109	0.131	0.139	0.173
Total Sodium	mg/L	200	AO	2.9	2.65	3.12	3.13	3.15	3.22	3.59
Total Sulphur	mg/L				<3.0	<3.0	<3.0	<3.0	<3.0	<3.0