French Creek Distribution Water Analysis
1228 Sunrise Drive (*Sample collected at French Creek Pump house)

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		Nov. 17 1999*	Nov 29 2000	June 28 2001*	March 6 2002*	April 23 2003	2004	April 20 2005	May 17 2006	May 22 2007	May 27 2008	May 13 2009	May 19 2010	May 18 2011	May 16 2012	June 5 2013
Miscellaneous Inorganics																		
Fluoride	mg/L	1.5	MAC	0.1	0.14	0.12	0.13	0.09	<1.0	<1.0	0.1	<1.0	<1.0	<1.0	<1.0	<1.0	0.11	0.1
Alkalinity (total as $CaCO_3$)	mg/L			137	135	134	131	138	130	140	150	130	140	140	150	130	140	130
Anions																		
Dissolved Sulphate	mg/L	500	AO	5.1	5	7.61	12.07	6.74	48.6	5.4	11.3	9.9	10.4	4.9	6	14.6	14.6	15.4
Dissolved Chloride	mg/L	250	AO	5.7	6.07	9.2	5.21	10.91	14.4	13	7.2	7.1	7.6	15.2	9.5	8.7	8.7	9.8
Nitrite	mg/L	1	MAC	0.05	0.08	<.002	0.03	<0.01	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05
Miscellaneous																		
Apparent Colour	Colour Unit			25	5	37	7	22	39	60	20	7	17	6	14	24	31	37
Nutrients																		
Total Ammonia	mg/L																0.09	0.02
Physical Properties																		
Conductivity	µS/cm			279	309	324	281	326	327	311	309	309	312	330	333	316	313	297
pH	pH	7.0:10.5	AO	8.03	7.83	7.72	7.95	7.9	7.8	7.8	8.1	8	8.15	8.2	8.3	8.2	8.3	8.1
TDS	mg/L	500	AO	172	190	167	153	173	200	150	193	182	208	246	206	210	176	200
Turbidity	NTU			0.96	0.63	0.85	0.22	0.69	1.3	2.3	0.9	0.6	0.7	0.5	1.1	0.9	1.2	1
Microbiological Parameters																		
E.coli	MPN/100mL	<1	MAC								<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Coliforms	MPN/100mL	<1	MAC	<1	<1	<1			<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Calculated Parameters																		
Total Hardness ($CaCO_3$)	mg/L			103	115.2	124.9	136	116.3	120	120	140	140	130	200	140	120	140	140
Nitrate	mg/L	10	MAC	0.06	5.89	<0.004	0.03	0.06	0.2	<0.1	<0.01	<0.1	<0.1	2.7	0.6	<0.1	<0.05	<0.05
Elements																		
Total Mercury	mg/L	0.001	MAC		<.0001	<.0001	<.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.00001	<0.00001	<0.00001
Total Metals																		
Total Aluminum	mg/L	0.1	OG	0.007	0.04	0.017	<.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	0.008	<0.005	<0.005	<0.005
Total Antimony	mg/L	0.006	MAC			<.006	<.006	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Arsenic	mg/L	0.01	MAC		<.01	<.01	<.01	0.0006	0.0007	0.0009	0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002
Total Barium	mg/L	1	MAC	0.008	0.01	0.0139	0.0159	0.01	0.015	0.014	0.015	0.016	0.01	0.011	0.016	0.016	0.013	0.015
Total Beryllium	mg/L																<0.00004	<0.00004
Total Bismuth	mg/L																<0.001	<0.0010
Total Boron	mg/L	5	MAC		0.041	0.036	0.022	0.037	0.039	0.034	0.018	0.023	<0.02	0.013	0.024	0.022	0.023	0.021
Total Cadmium	mg/L	0.005	MAC		<.0006	<.0006	<.0006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001	0.00007	<0.00001	<0.00001	<0.00001
Total Chromium	mg/L	0.05	MAC		<0.0009	<0.0009	<0.0009	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	0.0006	<0.0004	<0.0004	0.0004	<0.0004
Total Cobalt	mg/L																0.0001	0.00076
Total Copper	mg/L	1	AO		<0.001	0.002	<0.001	0.004	0.002	0.001	0.002	0.002	<0.005	0.049	0.002	0.001	0.002	0.002
Total Iron	mg/L	0.3	AO	0.2	0.41	0.461	0.203	0.4	0.5	1	0.1	0.1	0.12	0.03	0.094	0.13	0.137	0.125
Total Lead	mg/L	0.01	MAC		<0.002	0.002	<0.002	0.0002	0.0002	0.0002	<0.0001	0.0002	<0.0005	0.0008	0.0003	0.0003	0.0001	0.0001
Total Manganese	mg/L	0.05	AO	0.13	0.17	0.213	0.152	0.174	0.385	0.34	0.124	0.136	0.13	0.0013	0.132	0.114	0.145	0.124
Total Molybdenum	mg/L																0.0005	0.0006
Total Nickel	mg/L													0.001	<0.001	<0.001	<0.001	<0.001
Total Selenium	mg/L	0.05	MAC		<.004	0.005	<.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Total Silicon	mg/L																11.6	11.5
Total Silver	mg/L													<0.00001	0.00004	0.00001	<0.00001	<0.00001
Total Strontium	mg/L																0.132	0.138
Total Thallium	mg/L																<0.00001	<0.00001
Total Tin	mg/L																<0.0001	0.0002
Total Titanium	mg/L																<0.001	<0.0010
Total Uranium	mg/L	0.02	MAC		<.06	<.06	<.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Total Vanadium	mg/L																0.0003	0.0003
Total Zinc	mg/L	5	AO		0.0069	0.0027	0.0034	0.005	0.012	0.009	0.004	0.011	<0.005	0.118	0.003	0.003	0.002	0.002
Total Zirconium	mg/L																	
Total Calcium	mg/L				28	29.9	33.3	27.1	28.9	28.2	33.5	34.3	30.6	49.1	33.6	29.4	35.2	34.3
Total Magnesium	mg/L			10.4	11	12.2	12.8	11.8	11.9	11.7	12.6	13.6	12.3	17.7	13.4	12.2	13.6	13.4
Total Potassium	mg/L				<4	2.2	204	2.4	2.5	2	2.4	2.3	2.2	1.1	2.6	2.4	2.6	2.68
Total Sodium	mg/L	200	AO		15	20.2	11.9	19.6	21	20	12.5	12.9	13.4	7.72	13.7	14.3	13.2	13.6
Total Sulphur	mg/L																	