Table 1
Fall, 2007 Analytical Results

Parameter	Detection Limit	CCME FAW[1] Criteria	GCDWQ[2] Criteria	MW01	MW02	MW03	MW04	MW05	MW06	MW07	MW08	MW9	MW10	MW11	MW12	MW13	99-1 Duplicate of MW12	QA/QC	Method	99-2 Field Blank
Date				19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	18-Dec-07	18-Dec-07	18-Dec-07	18-Dec-07	18-Dec-07	18-Dec-07			18-Dec-07
General and Bulk Parameters																				
Ion Balance (%)	0.01			0.87	0.84	0.87	0.9	0.88	0.85	0.84	0.84	0.86	0.84	0.87	0.84	0.87	0.83	1.2	RPD	NC
Total Dissolved Solids (mg/L)	10		≤500	442	**895**	**571**	**763**	**566**	**1230**	**1890**	**977**	**1020**	**822**	**810**	**601**	457	**600**	0.2	RPD	<10
Hardness (mg/L as CaCO3)	0.5			310	530	370	500	380	620	850	480	300	410	480	300	170	300	0.0	RPD	<0.5
pH			6.5 - 8.5	7.8	7.4	7.7	7.7	7.6	7.7	7.5	7.7	8	7.8	7.7	7.8	8	7.8	0.0	RPD	5.8
Electrical Conductivity (µS/cm)	1			770	1400	960	1400	930	1700	2500	1400	1500	1300	1300	1000	790	1000	0.0	RPD	<1
Total Alkalinity (mg/L as CaCO3)	1			390	540	380	380	360	510	540	520	550	540	560	570	460	570	0.0	RPD	<1
Dissolved Organic Carbon (mg/L)	1			2	5	3	3	3	6	6	5	9	5	6	7	5	8	13.3	RPD	<1
Routine and Major Ion Parameters																				
Chloride (mg/L)	1		≤250	2	13	35	200	22	3	9	2	4	<1	10	5	2	5	0.0	AD	<1
Fluoride (mg/L)			1.5	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	<0.1	0.2	<0.1	0.0	AD	<0.1
Calcium (mg/L)	0.3			87	140	98	140	100	160	220	130	83	120	130	82	45	82	0.0	RPD	<0.3
Potassium (mg/L)	0.3			2.2	4.5	2.7	10	7.4	5	5.1	5.4	3.5	4.8	4.3	4.3	3.5	4.2	2.4	RPD	<0.3
Magnesium (mg/L)	0.2			23	46	32	35	30	54	72	36	22	29	38	23	14	23	0.0	RPD	<0.2
Sodium (mg/L)	0.5		≤200	34	83	49	71	41	140	**230**	120	**230**	110	87	99	110	98	1.0	RPD	<0.5
Sulfate (mg/L)	1		≤500	60	290	130	82	150	**560**	**1000**	370	350	230	210	43	9	44	2.3	RPD	<1
Iron (mg/L)	0.06	0.3	≤0.3	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.0	AD	<0.06
Manganese (mg/L)	0.004		≤0.05	**0.67**	**0.7**	**0.25**	0.016	**0.66**	**1.5**	**1.6**	**0.44**	**0.77**	**0.64**	**0.61**	**0.4**	**0.25**	**0.4**	0.0	RPD	<0.004
Nitrate and Nitrite (mg/L as N)	0.2			<0.2	<0.2	<0.2	0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.0	AD	<0.2
Nitrate (mg/L as N)	0.2	13	45	<0.2	<0.2	<0.2	0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.0	AD	<0.2
Nitrite (mg/L as N)	0.06	0.06		<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.0	AD	<0.06
Bicarbonate (mg/L)	1			470	660	460	460	440	630	660	630	670	660	680	700	560	700	0.0	RPD	<1
Carbonate (mg/L)	1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.0	AD	<1
Hydroxide (mg/L)	1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.0	AD	<1
Ammonia (mg/L as N)	0.01			0.26	0.1	0.06	0.01	0.05	1.9	0.26	0.25	0.23	1.8	0.2	0.29	0.23	0.26	10.9	RPD	0.08
Orthophosphate (mg/L as P)	0.02			0.02	0.08	0.04	0.04	0.05	0.17	0.02	0.05	0.04	<0.02	0.05	<0.02	<0.02	<0.02	0.0	AD	<0.02
Hydrocarbon Parameters																				
Benzene (mg/L)	0.0004	0.37 - 0.002	0.005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0	AD	<0.0004
Toluene (mg/L)	0.0004	0.09	≤0.024	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0	AD	<0.0004
Ethylbenzene (mg/L)	0.0004		≤0.0024	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0	AD	<0.0004
Xylenes (mg/L)	0.0008		≤0.3	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0	AD	<0.0008
F1(mg/L)	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.0	AD	<0.1
F1-BTEX (mg/L)	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.0	AD	<0.1
F2 (mg/L)	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.0	AD	<0.1
Phenols (mg/L)	0.001			0.002	0.002	0.002	0.002	<0.001	0.002	0.002	0.001	0.002	0.002	0.002	0.002	<0.001	<0.001	0.0	AD	<0.001
Dissolved Metals																				
Silver (mg/L)	0.0001	0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0	AD	<0.0001
Aluminum (mg/L)	0.001	0.005 - 0.1	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0	AD	<0.001
Arsenic (mg/L)	0.001	0.005	0.025	<0.001	0.003	<0.001	<0.001	0.001	0.003	0.001	0.002	0.002	0.002	<0.001	0.002	0.001	0.002	0.0	AD	<0.001
Boron (mg/L)	0.02		5	0.05	0.13	0.11	0.09	0.06	0.13	0.26	0.17	0.26	0.16	0.18	0.22	0.25	0.23	4.4	RPD	<0.02
Barium (mg/L)	0.01		1	0.11	0.04	0.03	0.08	0.04	0.03	0.04	0.03	0.02	0.02	0.03	0.1	0.29	0.1	0.0	RPD	<0.01
Beryllium (mg/L)	0.001			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0	AD	<0.001
Bismuth (mg/L)																				
Cadmium (mg/L)	0.0002	0.000017	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0	AD	<0.0002
Cobalt (mg/L)	0.0003			0.0009	0.0026	0.0008	<0.0003	0.0007	0.0008	0.0013	0.0004	0.0009	0.0005	0.0006	0.0007	0.0009	0.0007	0.0	AD	<0.0003
Chromium (mg/L)	0.001		0.05	<0.001	0.004	0.002	0.001	0.003	0.002	0.004	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.001	AD	<0.001
Copper (mg/L)	0.0002	0.002-0.004	≤1.0	<0.0002	0.0005	0.0002	0.0006	<0.0002	0.0011	0.0016	0.0006	0.0008	0.0006	0.0008	<0.0002	<0.0002	<0.0002	0.0	AD	0.0002
Mercury (mg/L)	0.00005		0.001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00007	0.00007	0.00007	0.0	AD	0.00006
Molybdenum (mg/L)	0.0002	0.073		0.0008	0.0006	0.0012	0.0006	0.0005	0.0012	0.0011	0.0014	0.0018	0.0011	0.001	0.0014	0.0028	0.0015	6.9	RPD	<0.0002
Nickel (mg/L)	0.0005	0.025 - 0.15		0.0027	0.0046	0.0042	0.0052	0.0029	0.0052	0.0059	0.0036	0.0023	0.0029	0.0027	0.0021	0.0016	0.002	0.0001	AD	<0.0005
Lead (mg/L)	0.0002	0.001-0.007	0.01	<0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0003	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0	AD	<0.0002
Antimony (mg/L)	0.0002		0.006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0	AD	<0.0002
Selenium (mg/L)	0.001	0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0	AD	<0.001
Tin (mg/L)	0.001			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0	AD	<0.001
Strontium (mg/L)	0.02			0.53	1.3	0.82	0.61	0.63	1.4	2.2	1.4	0.81	1.3	1.1	0.84	0.5	0.83	1.2	RPD	<0.02
Titanium (mg/L)	0.001			0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.003	0.001	AD	<0.001
Thallium (mg/L)	0.0002	0.0008		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0	AD	<0.0002
Uranium (mg/L)	0.0001		0.02	0.0024	0.0014	0.0006	0.0023	0.0007	0.0018	0.0014	0.0008	0.0014	0.0014	0.0013	0.0011	0.0009	0.0011	0.0	RPD	<0.0001
Vanadium (mg/L)	0.001			<0.001	0.002	0.001	<0.001	0.001	0.001	0.002	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0	AD	<0.001
Zinc (mg/L)	0.003	0.03	≤5.0	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0	AD	<0.003

Notes: 1. Canadian Environmental Quality Guidelines; Freshwater Aquatic Life (CCME, 1999 updated 2007)
2. Guidelines for Canadian Driking Water Quality (Health Canada, 2007)

BOLD Parameter Concentration Exceeds Health Canada, 2004 criteria
BOLD Parameter Concentration Exceeds CCME, 2004 criteria
BOLD Parameter Concentration Exceeds Health Canada, 2004 and CCME, 2004 criteria
RPD Relative Percent Difference
AD Absolute Difference