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Thursday, December 6, 2012

Mr. Todd Kring
 Director of Community Infrastructure
 Mohawks of the Bay of Quinte
 Tyendingaga Mohawk Territory
 RR #1, 13 Old York Road
 Deseronto, Ontario
 K0K 1X0

Dear Mr. Kring;

**RE: Quinte Mohawks School Drinking Water System (DWS) Analytical Sample Results Summary
 December 2009 to November 2012**

The following provides a summary of all analytical results obtained from the Quinte Mohawks School DWS from December 16, 2009 (when OCWA commenced the sampling program) to November 30, 2012. All samples at the Quinte Mohawk School DWS were collected as per the Ministry of the Environment Procedure "Practices for the Collection and Handling of Drinking Water Samples" and were submitted to SGS Lakefield Research Ltd. laboratory for analysis. SGS Lakefield Research Ltd. has been deemed accredited by the Canadian Association for Laboratory Accreditation (CALA), meeting strict provincial guidelines including an extensive quality assurance/quality control program.

Microbiological Sampling & Testing:

Quinte Mohawks School - Microbiological Test Results – December 16, 2009 to December 31, 2009					
Sample Location	# Total Coliform and E. Coli Samples	Total Coliform (CFU/100 mL) – Range of Results (min#) – (max#)	E. Coli (CFU/100 mL) – Range of Results (min#) – (max#)	# HPC Samples	HPC (CFU/1 mL) – Range of Results (min#) – (max#)
Raw Water Tap	1	0 - 0	0 - 0	1	43 - 43
Treated Water	Not Required				
Distribution Water - Daycare	2	0 - 0	0 - 0	2	0 - 0
Distribution Water – Staff Lunchroom	1	0 - 0	0 - 0	1	0 - 0
Distribution Water – School (Various Locations)	3	0 - 0	0 - 0	3	0 - 1

Quinte Mohawks School - Microbiological Test Results – January 1, 2010 to December 31, 2010					
Sample Location	# Total Coliform and E. Coli Samples	Total Coliform (CFU/100 mL) – Range of Results (min#) – (max#)	E. Coli (CFU/100 mL) – Range of Results (min#) – (max#)	# HPC Samples	HPC (CFU/1 mL) – Range of Results (min#) – (max#)
Raw Water Tap	11	0 - 1	0 - 0	10	17 - 241
Treated Water	Not Required				
Distribution Water - Daycare	52	0 - 0	0 - 0	52	0 - 38
Distribution Water – Staff	23	0 - 1	0 - 0	23	0 - 32

Lunchroom					
Distribution Water – School (Various Locations)	40	0 - 0	0 - 0	40	0 - 95

Quinte Mohawks School - Microbiological Test Results – January 1, 2011 to December 31, 2011					
Sample Location	# Total Coliform and E. Coli Samples	Total Coliform (CFU/100 mL) – Range of Results (min#) – (max#)	E. Coli (CFU/100 mL)– Range of Results (min#) – (max#)	# HPC Samples	HPC (CFU/1 mL) – Range of Results (min#) – (max#)
Raw Water Tap	12	0 - 1	0 - 0	12	3 - 85
Treated Water	11	0 - 0	0 - 0	11	0 - 23
Distribution Water - Daycare	51	0 - 0	0 - 0	51	0 - 43
Distribution Water – Staff Lunchroom	28	0 - 0	0 - 0	28	0 - 720
Distribution Water – School (Various Locations)	25	0 - 0	0 - 0	25	0 - 33

Quinte Mohawks School - Microbiological Test Results – January 1, 2012 to November 30, 2012					
Sample Location	# Total Coliform and E. Coli Samples	Total Coliform (CFU/100 mL) – Range of Results (min#) – (max#)	E. Coli (CFU/100 mL)– Range of Results (min#) – (max#)	# HPC Samples	HPC (CFU/1 mL) – Range of Results (min#) – (max#)
Raw Water Tap	11	0 - 0	0 - 0	11	0 - 202
Treated Water	4	0 - 0	0 - 0	4	1 - 13
Distribution Water - Daycare	47	0 - 0	0 - 0	47	0 - 251
Distribution Water – Staff Lunchroom	18	0 - 0	0 - 0	18	0 - 6
Distribution Water – School (Various Locations)	31	0 - 0	0 - 0	31	0 - 840

Quarterly Chemical Sampling & Testing (commenced in 2010):

Quinte Mohawks School – Quarterly Chemical Test Results – January 1, 2010 to December 31, 2010									
Sample Parameter	Treated Water – Average Result				Distribution Water – Average Result				Ontario Drinking Water Standard (Type) ¹
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	
Nitrite (N) - mg/L	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	1 (MAC)
Nitrate (N) – mg/L	3.98	3.79	3.28	2.91	3.98	3.79	3.23	2.53	10 (MAC)
Nitrite + Nitrate (N) – mg/L	3.98	3.79	3.28	2.91	3.98	3.79	3.23	2.53	10 (MAC)
Hardness as CaCO ₃ – mg/L	394	391	438	464	396	406	447	464	80 – 100 (OG)
Alkalinity as CaCO ₃ – mg/L	354	318	333	367	366	320	333	366	30 – 500 (OG)
Conductivity - uS/cm	747	780	819	989	771	788	818	975	NONE
pH	7.87	8.23	7.95	8.01	7.77	8.06	7.76	7.94	6.5 – 8.5 (OG)
Color – TCU	3<MDL ²	3<MDL	3<MDL	3<MDL	3<MDL	3<MDL	3<MDL	3<MDL	5 (AO)
Turbidity – NTU	0.64	0.24	0.15	0.13<MDL	0.35	0.19	0.13<MDL	0.13<MDL	1 (MAC), 5 (AO)
Fluoride - mg/L	0.16	0.17	0.18	0.17	0.17	0.18	0.17	0.19	1.5 (MAC)
Chloride - mg/L	20	20	28	63	17	21	28	64	250 (AO)
Sulphate - mg/L	58	59	57	79	50	59	56	80	500 (AO)
Calcium - mg/L	99.5	98	113	120	99.7	101	115	120	NONE
Magnesium - mg/L	35.3	35.5	38.1	39.9	35.8	37.2	38.6	40.2	NONE
Sodium - mg/L	11.7	12.4	19.5	24.9	12.4	13.7	19.1	24.9	20 (MAC), 200 (AO)
Aluminum - ug/L	10<MDL	10<MDL	10<MDL	10<MDL	10<MDL	10<MDL	10<MDL	10<MDL	100 (OG)
Iron - ug/L	10<MDL	10<MDL	10<MDL	10<MDL	10<MDL	10<MDL	10<MDL	10<MDL	300 (AO)
Lead - ug/L	16.0	1.83	1.01	0.96	0.74	1.05	0.89	0.96	10 (MAC)
Manganese - ug/L	1<MDL	1<MDL	1<MDL	1	1<MDL	1<MDL	1<MDL	1<MDL	50 (AO)
Ammonia (N) Total – mg/L	0.07	0.04<MDL	0.04<MDL	0.04<MDL	0.04<MDL	0.19	0.04<MDL	0.04	NONE

THM's Total – ug/L	5.8	4.5	10	11	6.1	4.4	8.2	14	100 (MAC) *
Hydrogen Sulphide – mg/L	0.004<MDL	0.004<MDL	0.004<MDL	0.004<MDL	0.004<MDL	0.004<MDL	0.004<MDL	0.004<MDL	0.05 (AO)

Note 1: MAC = Maximum Acceptable Concentration, OG = Operational Guideline, AO = Aesthetic Objective, NONE = no standard, guideline or objective has been specified in the MOE's Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines, PIBS 4449e01.

Note 2: <MDL = Method Detection Limit which is defined as, "The minimum concentration of an analyte that can be identified, measured and reported with 99% confidence that the analyte concentration is greater than zero; it is determined from data produced by analyzing a sample in a given matrix containing the analyte." (CAN-P-1585-November 2006). CAN-P-1585 is the Standards Council of Canada document which details the requirements that environmental testing laboratories must meet in order to be accredited to the international ISO/IEC 17025 standard. This definition is the reference cited by the MOE in the protocol of analytical methods. (Provided by SGS Lakefield Research Limited).

*expressed as a running annual average

Quinte Mohawks School – Quarterly Chemical Test Results – January 1, 2011 to December 31, 2011									
Sample Parameter	Treated Water – Average Result				Distribution Water – Average Result				Ontario Drinking Water Standard (Type) ¹
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	
Nitrite (N) - mg/L	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	1 (MAC)
Nitrate (N) – mg/L	2.92	2.94	4.07	2.42	2.97	2.94	3.42	2.41	10 (MAC)
Nitrite + Nitrate (N) – mg/L	2.92	2.94	4.07	2.42	2.97	2.94	3.42	2.41	10 (MAC)
Hardness as CaCO ₃ – mg/L	420	413	442	427	420	417	389	451	80 – 100 (OG)
Alkalinity as CaCO ₃ – mg/L	330	330	313	315	335	330	302	317	30 – 500 (OG)
Conductivity - uS/cm	778	869	811	920	780	868	790	933	NONE
pH	7.79	7.99	7.78	8.08	7.82	7.99	7.88	8.08	6.5 – 8.5 (OG)
Color – TCU	3<MDL ²	3<MDL	3<MDL	3<MDL	3<MDL	3<MDL	3<MDL	3<MDL	5 (AO)
Turbidity – NTU	0.34	0.25	0.17	0.13<MDL	0.14	0.13<MDL	0.13<MDL	0.13<MDL	1 (MAC), 5 (AO)
Fluoride - mg/L	0.20	0.20	0.19	0.21	0.20	0.19	0.18	0.20	1.5 (MAC)
Chloride - mg/L	21	22	17	34	15	22	22	36	250 (AO)
Sulphate - mg/L	64	57	50	94	62	58	52	94	500 (AO)
Calcium - mg/L	107	106	112	110	108	107	99.1	116	NONE
Magnesium - mg/L	37	36	39.3	36.8	36.5	36.2	34.5	39.2	NONE
Sodium - mg/L	11.9	14.1	15.6	24.1	11.1	14.1	13.8	25.1	20 (MAC), 200 (AO)
Aluminum - ug/L	10<MDL	25	10<MDL	10<MDL	10<MDL	27	10<MDL	10<MDL	100 (OG)
Iron - ug/L	248	60	2<MDL	2<MDL	5	2<MDL	2<MDL	2<MDL	300 (AO)
Lead - ug/L	3.40	0.72	0.56	0.35	0.84	0.60	0.72	0.64	10 (MAC)
Manganese - ug/L	6	0.7	0.5	0.6	0.8	0.2<MDL	0.2	0.2<MDL	50 (AO)
Ammonia (N) Total – mg/L	0.04<MDL	0.06	0.04	0.04<MDL	0.44	0.04<MDL	0.12	0.04<MDL	NONE
THM's Total – ug/L	4.7	3.8	8.6	6.3	5.6	3.7	11	12	100 (MAC) *
Hydrogen Sulphide – mg/L	0.004<MDL	0.004<MDL	0.004<MDL	0.006<MDL	0.004<MDL	0.008	0.004<MDL	0.006<MDL	0.05 (AO)

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*expressed as a running annual average

Quinte Mohawks School – Quarterly Chemical Test Results – January 1, 2012 to November 30, 2012									
Sample Parameter	Treated Water – Average Result				Distribution Water – Average Result				Ontario Drinking Water Standard (Type) ¹
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	
Nitrite (N) - mg/L	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	0.005<MDL	1 (MAC)
Nitrate (N) – mg/L	3.37	2.65	1.94	2.74	3.36	2.65	1.94	2.76	10 (MAC)
Nitrite + Nitrate (N) –	3.37	2.65	1.94	2.74	3.36	2.65	1.94	2.76	10 (MAC)

mg/L									
Hardness as CaCO ₃ – mg/L	402	388	427	536	408	389	427	530	80 – 100 (OG)
Alkalinity as CaCO ₃ – mg/L	343	324	330	314	338	336	332	310	30 – 500 (OG)
Conductivity - uS/cm	756	740	848	1100	755	751	851	1090	NONE
pH	7.74	8.05	7.70	7.93	7.75	8.06	7.73	7.89	6.5 – 8.5 (OG)
Color – TCU	3<MDL ²	3<MDL	3<MDL	3<MDL	3<MDL	3<MDL	3<MDL	5	5 (AO)
Turbidity – NTU	0.65	0.31	0.14	0.52	0.52	0.60	0.22	0.43	1 (MAC), 5 (AO)
Fluoride - mg/L	0.22	0.20	0.25	0.24	0.21	0.21	0.26	0.25	1.5 (MAC)
Chloride - mg/L	11	22	24	50	11	22	24	50	250 (AO)
Sulphate - mg/L	61	57	120	190	60	57	110	190	500 (AO)
Calcium - mg/L	101	96.7	108	142	103	97	108	140	NONE
Magnesium - mg/L	36.2	35.7	38.3	43.9	36.8	35.7	38.4	44.2	NONE
Sodium - mg/L	13.5	13.6	18.2	25.1	13.8	13.5	18.4	25.0	20 (MAC), 200 (AO)
Aluminum - ug/L	12	20	12	20	18	11	12	18	100 (OG)
Iron - ug/L	4	3<MDL	3	3	3<MDL	3<MDL	3<MDL	3<MDL	300 (AO)
Lead - ug/L	0.51	0.45	0.45	0.35	0.76	0.46	0.48	0.73	10 (MAC)
Manganese - ug/L	0.2	0.4	0.7	2.6	0.2<MDL	0.2<MDL	0.2<MDL	1.8	50 (AO)
Ammonia (N) Total – mg/L	0.04<MDL	0.04	0.04<MDL	0.04<MDL	0.04<MDL	0.04<MDL	0.15	0.04<MDL	NONE
THM's Total – ug/L	6.9	5.8	8.6	11	8.8	5.9	9.4	12	100 (MAC) *
Hydrogen Sulphide – mg/L	0.006	0.006<MDL	0.006<MDL	0.006<MDL	0.006<MDL	0.006<MDL	0.006<MDL	0.006<MDL	0.05 (AO)

Note 1: MAC = Maximum Acceptable Concentration, OG = Operational Guideline, AO = Aesthetic Objective, NONE = no standard, guideline or objective has been specified in the MOE's Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines, PIBS 4449e01.

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*expressed as a running annual average

Every 60 Months Chemical Sampling & Testing (Schedules 23 & 24, Sodium and Fluoride):

Quinte Mohawks School – Schedules 23 & 24, Sodium and Fluoride Test Results					
Parameter	Treated Water Results May 3, 2010	Raw Water Results November 26, 2012	Treated Water Results November 26, 2012	Distribution Water Results November 26, 2012	Ontario Drinking Water Standard (Type) ¹
Fluoride – ug/L	0.17	---	---	---	1.5 (MAC)
Antimony – ug/L	0.02<MDL ²	0.03	0.08	0.04	6 (MAC)
Arsenic – ug/L	0.3	0.2	0.3	0.3	25 (MAC)
Barium – ug/L	48.7	108	111	104	1000 (MAC)
Boron – ug/L	46.9	105	97	96	5000 (MAC)
Cadmium – ug/L	0.034	0.006	0.007	0.006	5 (MAC)
Chromium – ug/L	0.6	0.5<MDL	0.6	0.7	50 (MAC)
Mercury – ug/L	0.02<MDL	0.01<MDL	0.01	0.01<MDL	1 (MAC)
Sodium – mg/L	12.0	---	---	---	20 (MAC), 200 (AO)
Selenium – ug/L	1<MDL	1<MDL	1<MDL	1<MDL	10 (MAC)
Uranium – ug/L	3.09	2.75	2.63	2.55	20 (MAC)
Benzene – ug/L	0.32<MDL	0.32<MDL	0.32<MDL	0.32<MDL	5 (MAC)
Carbon Tetrachloride – ug/L	0.16<MDL	0.16<MDL	0.16<MDL	0.16<MDL	5 (MAC)
1,2-Dichlorobenzene – ug/L	0.41<MDL	0.41<MDL	0.41<MDL	0.41<MDL	200 (MAC)
1,4-Dichlorobenzene – ug/L	0.36<MDL	0.36<MDL	0.36<MDL	0.36<MDL	5 (MAC)
1,1-Dichloroethylene (vinylidene chloride) – ug/L	0.33<MDL	0.33<MDL	0.33<MDL	0.33<MDL	14 (MAC)
1,2-Dichloroethane – ug/L	0.35<MDL	0.35<MDL	0.35<MDL	0.35<MDL	5 (MAC)
Dichloromethane – ug/L	0.35<MDL	0.35<MDL	0.35<MDL	0.35<MDL	50 (MAC)
Monochlorobenzene – ug/L	0.30<MDL	0.30<MDL	0.30<MDL	0.30<MDL	80 (MAC)
Tetrachloroethylene (perchloroethylene) – ug/L	0.35<MDL	0.35<MDL	0.35<MDL	0.35<MDL	30 (MAC)

Trichloroethylene – ug/L.	0.43<MDL	0.65	0.43<MDL	0.43<MDL	5 (MAC)
Vinyl Chloride – ug/L.	0.17<MDL	0.17<MDL	0.17<MDL	0.17<MDL	2 (MAC)
Diquat – ug/L.	1<MDL	1<MDL	1<MDL	1<MDL	70 (MAC)
Paraquat – ug/L.	1<MDL	1<MDL	1<MDL	1<MDL	10 (MAC)
Glyphosate – ug/L.	6<MDL	6<MDL	6<MDL	6<MDL	280 (MAC)
Polychlorinated Biphenols (PCBs) -- ug/L.	0.04<MDL	0.04<MDL	0.04<MDL	0.04<MDL	3 (MAC)
Benzo(a)pyrene – ug/L.	0.004<MDL	0.004<MDL	0.004<MDL	0.004<MDL	0.01 (MAC)
2,4-Dichlorophenol	0.15<MDL	0.15<MDL	0.15<MDL	0.15<MDL	900 (MAC)
2,4,6-Dichlorophenol	0.25<MDL	0.25<MDL	0.25<MDL	0.25<MDL	5 (MAC)
2,3,4,6-Tetrachlorophenol – ug/L.	0.14<MDL	0.14<MDL	0.14<MDL	0.14<MDL	100 (MAC)
Pentachlorophenol – ug/L.	0.15<MDL	0.15<MDL	0.15<MDL	0.15<MDL	60 (MAC)
Alachlor – ug/L.	0.02<MDL	0.02<MDL	0.02<MDL	0.02<MDL	5 (MAC)
Aldicarb – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	9 (MAC)
Aldrin + Dieldrin – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	0.7 (MAC)
Aldrin - ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
Dieldrin – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
Atrazine + N-dealkylated metabolites – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	5 (MAC)
Atrazine – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
Desethyl atrazine – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
Azinphos-methyl – ug/L.	0.02<MDL	0.02<MDL	0.02<MDL	0.02<MDL	20 (MAC)
Bendiocarb – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	40 (MAC)
Carbaryl – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	90 (MAC)
Carbofuran – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	90 (MAC)
Chlordane (Total) – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	7 (MAC)
a-chlordane – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
g-chlordane – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
Oxychlordane – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
Chlorpyrifos – ug/L.	0.02<MDL	0.02<MDL	0.02<MDL	0.02<MDL	90 (MAC)
Cyanazine – ug/L.	0.03<MDL	0.03<MDL	0.03<MDL	0.03<MDL	10 (MAC)
Diazinon – ug/L.	0.02<MDL	0.02<MDL	0.02<MDL	0.02<MDL	20 (MAC)
DDT + metabolites – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	30 (MAC)
op-DDT – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
pp-DDT – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
pp-DDE – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
pp-DDT – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
Dimethoate – ug/L.	0.03<MDL	0.03<MDL	0.03<MDL	0.03<MDL	20 (MAC)
Diuron – ug/L.	0.03<MDL	0.03<MDL	0.03<MDL	0.03<MDL	150 (MAC)
Heptachlor + Heptachlor Epoxide – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	3 (MAC)
Heptachlor – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
Heptachlor Epoxide – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	NONE
Lindane – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	4 (MAC)
Malathion – ug/L.	0.02<MDL	0.02<MDL	0.02<MDL	0.02<MDL	190 (MAC)
Methoxychlor – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	900 (MAC)
Metolachlor – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	50 (MAC)
Metribuzin – ug/L.	0.02<MDL	0.02<MDL	0.02<MDL	0.02<MDL	80 (MAC)
Parathion – ug/L.	0.02<MDL	0.02<MDL	0.02<MDL	0.02<MDL	50 (MAC)
Phorate – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	2 (MAC)
Prometryne – ug/L.	0.03<MDL	0.03<MDL	0.03<MDL	0.03<MDL	1 (MAC)
Simazine – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	10 (MAC)
Temphos – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	280 (MAC)
Terbufos – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	1 (MAC)
Triallate – ug/L.	0.01<MDL	0.01<MDL	0.01<MDL	0.01<MDL	230 (MAC)
Trifluralin – ug/L.	0.02<MDL	0.02<MDL	0.02<MDL	0.02<MDL	45 (MAC)
2,4-Dichlorophenoxyacetic acid (2,4-D) – ug/L.	0.19<MDL	0.19<MDL	0.19<MDL	0.19<MDL	100 (MAC)
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T) – ug/L.	0.22<MDL	0.22<MDL	0.22<MDL	0.22<MDL	280 (MAC)
Bromoxynil – ug/L.	0.33<MDL	0.33<MDL	0.33<MDL	0.33<MDL	5 (MAC)
Dicamba – ug/L.	0.20<MDL	0.20<MDL	0.20<MDL	0.20<MDL	120 (MAC)
Diclofop-methyl – ug/L.	0.40<MDL	0.40<MDL	0.40<MDL	0.40<MDL	9 (MAC)
Dinoseb – ug/L.	0.36<MDL	0.36<MDL	0.36<MDL	0.36<MDL	10 (MAC)
Picloram – ug/L.	0.25<MDL	1<MDL	1<MDL	1<MDL	190 (MAC)

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Note 2: <MDL = Method Detection Limit which is defined as, "The minimum concentration of an analyte that can be identified, measured and reported with 99% confidence that the analyte concentration is greater than zero; it is determined from data produced by analyzing a sample in a given matrix containing the analyte." (CAN-P-1585-November 2006). CAN-P-1585 is the Standards Council of Canada document which details the requirements that environmental testing laboratories must meet in order to be accredited to the international ISO/IEC 17025 standard. This definition is the reference cited by the MOE in the protocol of analytical methods. (Provided by SGS Lakefield Research Limited).

Annual Lead Sampling & Testing (commenced in 2010):

Quinte Mohawks School – Lead Sampling Results – May 19, 2010							
Sample Parameter	# of Samples	Distribution Water – Daycare	# of Samples	Distribution Water – Staff Lunchroom	# of Samples	Distribution Water – Fountain Boys Bathroom	Ontario Drinking Water Standard (Type)
Lead – ug/L (Before Flushing)	1	3.24	1	3.82	1	1.23	10 (MAC)
Lead – ug/L (After Flushing)	1	1.72	1	2.76	1	0.87	10 (MAC)

MAC = Maximum Acceptable Concentration

Quinte Mohawks School – Lead Sampling Results – May 24, 2011							
Sample Parameter	# of Samples	Distribution Water – Daycare	# of Samples	Distribution Water – Fountain Girls Bathroom	# of Samples	Distribution Water – Classroom #311 (Mrs. C. Brant)	Ontario Drinking Water Standard (Type)
Lead – ug/L	1	0.67	1	0.41	1	0.47	10 (MAC)

MAC = Maximum Acceptable Concentration

Quinte Mohawks School – Lead Sampling Results – May 28, 2012					
Sample Parameter	# of Samples	Distribution Water – Daycare	# of Samples	Distribution Water – Staff Lunchroom	Ontario Drinking Water Standard (Type)
Lead – ug/L (Before Flushing)	1	3.46	1	2.04	10 (MAC)
Lead – ug/L (After Flushing)	1	2.27	1	1.52	10 (MAC)

MAC = Maximum Acceptable Concentration

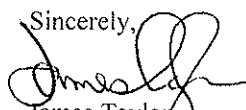
Special Sampling & Testing (Metals, Volatile Organic Compounds and Polycyclic Aromatic Hydrocarbons):

Quinte Mohawks School – Metals, Volatile Organic Carbons and Polycyclic Aromatic Hydrocarbons Sampling Results			
Sample Parameter	Treated Water Results October 25, 2012	Treated Water Results November 8, 2012	Ontario Drinking Water Standard (Type) ¹
Hardness as CaCO ₃ – mg/L	531	473	80 – 100 (OG)
Silver (Total) – mg/L	<0.00001	<0.00001	NONE
Aluminum (Total) – mg/L	0.0021	0.0074	0.1 (OG)
Arsenic (Total) – mg/L	0.0005	<0.0002	0.025 (MAC)
Barium (Total) – mg/L	0.139	0.111	1 (MAC)
Beryllium (Total) – mg/L	<0.00002	<0.00002	NONE
Boron (Total) – mg/L	0.100	0.121	5 (MAC)
Calcium (Total) – mg/L	141	125	NONE
Cadmium (Total) – mg/L	0.000010	<0.000003	0.0005 (MAC)
Cobalt (Total) – mg/L	0.000154	0.000116	NONE
Chromium (Total) – mg/L	0.0014	<0.0005	0.05 (MAC)
Copper (Total) – mg/L	0.0174	0.0294	1 (AO)
Iron (Total) – mg/L	<0.003	0.009	0.3 (AO)
Potassium (Total) – mg/L	4.06	3.75	NONE
Magnesium (Total) – mg/L	43.5	39.1	NONE
Manganese (Total) – mg/L	0.00282	0.00068	0.05 (AO)
Sodium (Total) – mg/L	29.3	25.7	20 (MAC), 200 (AO)

Lead (Total) – mg/L.	0.00026	0.00034	0.01 (MAC)
Phosphorus (Total) – mg/L.	<0.009	<0.009	NONE
Antimony (Total) – mg/L.	<0.0002	<0.0002	0.006 (MAC)
Selenium (Total) – mg/L.	0.001	0.002	0.01 (MAC)
Stontium (Total) – mg/L.	1.31	1.14	NONE
Zinc (Total) – mg/L.	0.030	0.026	5 (AO)
Benzene – ug/L.	<0.5	<0.5	5 (MAC)
Bromomethane – ug/L.	<0.5	<0.5	NONE
Carbon tetrachloride – ug/L.	<0.2	<0.2	5 (MAC)
Chloroethane – ug/L.	<5	<5	NONE
Chloromethane – ug/L.	<5	<5	NONE
1,2-Dichlorobenzene – ug/L.	<0.5	<0.5	200 (MAC)
1,3-Dichlorobenzene – ug/L.	<0.5	<0.5	NONE
1,4-Dichlorobenzene – ug/L.	<0.5	<0.5	5 (MAC)
1,1-Dichloroethane – ug/L.	<0.5	<0.5	NONE
1,2-Dichloroethane – ug/L.	<0.5	<0.5	5 (MAC)
1,1-Dichloroethylene (vinylidene chloride) – ug/L.	<0.5	<0.5	14 (MAC)
1,2-Dichloropropane – ug/L.	<0.5	<0.5	NONE
trans-1,2-Dichloroethene – ug/L.	<0.5	<0.5	NONE
cis-1,2-Dichloroethene – ug/L.	<0.5	<0.5	NONE
cis-1,3-Dichloropropene – ug/L.	<0.5	<0.5	NONE
trans-1,3-Dichloropropene – ug/L.	<0.5	<0.5	NONE
Ethylbenzene – ug/L.	<0.5	<0.5	2.4 (MAC)
Ethylenedibromide – ug/L.	<0.2	<0.2	NONE
Dichloromethane – ug/L.	<0.5	<0.5	50 (MAC)
Monochlorobenzene – ug/L.	<0.5	<0.5	80 (MAC)
Styrene – ug/L.	<0.5	<0.5	NONE
1,1,2,2-Tetrachloroethane – ug/L.	<0.5	<0.5	NONE
Tetrachloroethene – ug/L.	<0.5	<0.5	30 (MAC)
Toluene – ug/L.	<0.5	<0.5	24 (AO)
Trichloroethylene – ug/L.	<0.5	<0.5	5 (MAC)
Vinyl Chloride – ug/L.	<0.2	<0.2	2 (MAC)
Trichlorofluoromethane – ug/L.	<5	<5	NONE
1,1,1-Trichloroethane – ug/L.	<0.5	<0.5	NONE
1,1,2-Trichloroethane – ug/L.	<0.5	<0.5	NONE
Xylene (Total) – ug/L.	<0.5	<0.5	300 (AO)
o-xylene – ug/L.	<0.5	<0.5	NONE
m/p-xylene – ug/L.	<0.5	<0.5	NONE
1,1,1,2-Tetrachloroethane – ug/L.	<0.5	<0.5	NONE
2-Chloroethylvinylether – ug/L.	<5	<5	NONE
Naphthalene – ug/L.	<0.5	<0.5	NONE
Accnaphthylene – ug/L.	<0.1	<0.1	NONE
Accnaphthene – ug/L.	<0.1	<0.1	NONE
Fluorene – ug/L.	<0.1	<0.1	NONE
Phenanthrene – ug/L.	<0.1	<0.1	NONE
Anthracene – ug/L.	<0.1	<0.1	NONE
Fluroanthene – ug/L.	<0.1	<0.1	NONE
Pyrene – ug/L.	<0.1	<0.1	NONE
Benzo(a)anthracene – ug/L.	<0.1	<0.1	NONE
Chrysene – ug/L.	<0.1	<0.1	NONE
Benzo(b)fluoranthene – ug/L.	<0.1	<0.1	NONE
Benzo(k)fluoranthene – ug/L.	<0.1	<0.1	NONE
Benzo(a)pyrene – ug/L.	<0.01	<0.01	0.01 (MAC)
Dibenzo(a,h)anthracene – ug/L.	<0.1	<0.1	NONE
Benzo(ghi)perylene – ug/L.	<0.2	<0.2	NONE
Indeno(1,2,3-cd)pyrene – ug/L.	<0.2	<0.2	NONE

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If you have any questions or concerns please contact me.

Sincerely,

James Taylor
Special Projects Manager

Ontario Clean Water Agency

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