



SGS Canada Inc.

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Lakefield - Ontario - KOL 2HO
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Not Reportable as per Chain of Custody
Works #: 1156

Project : PO#017018

15-July-2015

OCWA-Trent Valley (Quinte Mohawk School)

Attn : James Taylor

Date Rec. : 08 July 2015
LR Report: CA15086-JUL15

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Belleville, ON
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: Half MAC	7: AO/OG	8: MDL	9: 21E93 NR/TW QMS Treated Water	10: 1EC6A NR/DW QMS Staff Room Tap
Sample Date & Time									07-Jul-15 09:26	07-Jul-15 10:00
Temperature Upon Receipt [°C]	---	---	---	---	---	---	---	---	16.0	16.0
Field Total Chlorine [mg/L]	---	---	---	---	---	---	---	---	1.54	---
Field Free Chlorine [mg/L]	---	---	---	---	---	---	---	---	1.35	1.5
pH [no unit]	09-Jul-15	09:05	10-Jul-15	12:30	--	---	6.5-8.5	0.05	8.12	8.02
Alkalinity [mg/L as CaCO3]	09-Jul-15	09:05	10-Jul-15	12:30	--	---	30-500	2	345	338
Conductivity [uS/cm]	09-Jul-15	09:05	10-Jul-15	12:30	---	---	---	2	944	932
Colour [TCU]	09-Jul-15	08:06	09-Jul-15	15:29	--	---	5	3	3 <MDL	3 <MDL
Turbidity [NTU]	08-Jul-15	22:15	09-Jul-15	15:27	1	0.5	5	0.10	0.23	0.44
Ammonia+Ammonium (N) [mg/L]	08-Jul-15	22:00	09-Jul-15	12:56	--	---	--	0.04	0.04 <MDL	0.04
Hydrogen Sulphide [mg/L]	08-Jul-15	14:54	09-Jul-15	09:02	---	---	0.05	0.01	0.006 <MDL	0.006 <MDL
Sulphide [mg/L]	08-Jul-15	14:54	09-Jul-15	09:02	---	---	0.05	0.006	0.006 <MDL	0.006 <MDL
Chloride [mg/L]	09-Jul-15	18:17	10-Jul-15	11:53	--	---	250	0.04	56	60
Fluoride [mg/L]	10-Jul-15	12:10	10-Jul-15	10:06	1.5	0.75	--	0.06	0.23	0.23
Nitrite (as N) [mg/L]	10-Jul-15	19:05	13-Jul-15	15:12	1	0.5	---	0.003	0.003 <MDL	0.003 <MDL
Nitrate (as N) [mg/L]	10-Jul-15	19:05	13-Jul-15	15:12	10	5	---	0.006	2.42	2.43
Nitrate + Nitrite (as N) [mg/L]	10-Jul-15	19:05	13-Jul-15	15:12	10	5	---	0.006	2.42	2.43
Sulphate [mg/L]	09-Jul-15	18:17	15-Jul-15	07:59	--	---	500	0.04	87	87
Hardness [mg/L as CaCO3]	09-Jul-15	13:35	10-Jul-15	08:58	--	---	80-100	0.0	433	434
Aluminum [ug/L]	09-Jul-15	13:35	10-Jul-15	08:58	--	---	100	10	12	10 <MDL
Calcium [mg/L]	09-Jul-15	13:35	10-Jul-15	08:58	---	---	---	0.02	113	113
Iron [ug/L]	09-Jul-15	13:35	10-Jul-15	08:58	--	---	300	2	2 <MDL	2 <MDL
Sodium [mg/L]	09-Jul-15	13:35	10-Jul-15	09:03	20*	---	200	0.01	34.2	34.2
Magnesium [mg/L]	09-Jul-15	13:35	10-Jul-15	08:59	---	---	---	0.003	36.8	37.0
Manganese [ug/L]	09-Jul-15	13:35	10-Jul-15	08:59	--	---	50	0.1	13.1	13.4
Lead [ug/L]	09-Jul-15	12:17	10-Jul-15	16:02	10	5	--	0.01	0.13	0.16
Trihalomethanes (total) [ug/L]	09-Jul-15	15:59	10-Jul-15	13:48	100	50	---	0.37	6.3	5.9
Bromodichloromethane [ug/L]	09-Jul-15	15:59	10-Jul-15	13:48	--	---	--	0.26	1.0	0.96
Bromoform [ug/L]	09-Jul-15	15:59	10-Jul-15	13:48	--	---	--	0.34	2.0	1.9
Chloroform [ug/L]	09-Jul-15	15:59	10-Jul-15	13:48	--	---	--	0.29	0.41	0.40
Dibromochloromethane [ug/L]	09-Jul-15	15:59	10-Jul-15	13:48	--	---	--	0.37	2.8	2.6

MAC - Maximum Acceptable Concentration

Half MAC - Half of the Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

*Sodium > 20mg/L is an indicator of adverse water quality. Sodium > 20mg/L is only reportable every 57 months as per applicable drinking water regulations.

Online LIMS

0000456893

Method Descriptions

Parameter	Description	SGS Method Code
Alkalinity	Alkalinity by Titration	ME-CA-[ENV]EWL-LAK-AN-006
Aluminum	Aluminum by ICP-OES drinking water	ME-CA-[ENV]SPE-LAK-AN-003
Ammonia+Ammonium (N)	NH3+NH4 by Skalar - drinking water to MDL	ME-CA-[ENV]SFA-LAK-AN-007
Bromodichloromethane	Volatiles by GC/MS	ME-CA-[ENV]GC-LAK-AN-004
Bromoform	Volatiles by GC/MS	ME-CA-[ENV]GC-LAK-AN-004
Calcium	Calcium by ICP-OES drinking water	ME-CA-[ENV]SPE-LAK-AN-003
Chloride	Chloride by Dionex - solution	ME-CA-[ENV]JIC-LAK-AN-001
Chloroform	Volatiles by GC/MS	ME-CA-[ENV]GC-LAK-AN-004
Colour	True Colour by colourmetric method	ME-CA-[ENV]EWL-LAK-AN-002
Conductivity	Conductivity by Conductivity Meter	ME-CA-[ENV]EWL-LAK-AN-006
Dibromochloromethane	Volatiles by GC/MS	ME-CA-[ENV]GC-LAK-AN-004
Fluoride	Fluoride by specific ion electrode	ME-CA-[ENV]EWL-LAK-AN-014
Hardness	Hardness (CaCO3) by ICP	ME-CA-[ENV]SPE-LAK-AN-003
Hydrogen Sulphide	H2S calculation form Sulphide	ME-CA-[ENV]SFA-LAK-AN-008
Iron	Iron by ICP-OES drinking water	ME-CA-[ENV]SPE-LAK-AN-003
Lead	Lead by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006
Magnesium	Magnesium by ICP-OES drinking water	ME-CA-[ENV]SPE-LAK-AN-003
Manganese	Manganese by ICP-OES drinking water	ME-CA-[ENV]SPE-LAK-AN-003
Nitrate (as N)	Nitrate by Dionex - solution	ME-CA-[ENV]JIC-LAK-AN-001
Nitrate + Nitrite (as N)	Total Nitrates by Dionex - solution	ME-CA-[ENV]JIC-LAK-AN-001
Nitrite (as N)	Nitrate by Dionex - solution	ME-CA-[ENV]JIC-LAK-AN-001
pH	pH - solution	ME-CA-[ENV]EWL-LAK-AN-001
Sodium	Sodium by ICP-OES drinking water	ME-CA-[ENV]SPE-LAK-AN-003
Sulphate	Sulphate by Dionex - solution	ME-CA-[ENV]JIC-LAK-AN-001
Sulphide	Sulphide by Skalar	ME-CA-[ENV]SFA-LAK-AN-008
Trihalomethanes (total)	Volatiles by GC/MS	ME-CA-[ENV]GC-LAK-AN-004
Turbidity	Turbidity - APHA.AWWA.WPCF 18th 2130B	ME-CA-[ENV]EWL-LAK-AN-003


 Carrie Greenlaw
 Project Specialist
 Environmental Services, Analytical