SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Not Reportable as per Chain of Custody
Works #: 1156

Project : PO#017018

15-April-2015

OCWA-Trent Valley (Quinte Mohawk School)
Attn : James Taylor

Box 20157, 131 St. Paul St.
Belleville, ON
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Date Rec. : 08 April 2015
LR Report: **CA16436-APR15**

Copy: #1

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-Apr-15 09:54	07-Apr-15 10:10
Temperature Upon Receipt [°C]	---	---	---	---	---	---	--	---	12.0	12.0
Field Free Chlorine [mg/L]	---	---	---	---	---	---	---	---	1.64	1.69
pH [no unit]	09-Apr-15	08:32	13-Apr-15	09:42	--	---	6.5-8.5	0.05	8.07	7.57
Alkalinity [mg/L as CaCO3]	09-Apr-15	08:32	13-Apr-15	09:42	--	---	30-500	2	346	347
Conductivity [µS/cm]	09-Apr-15	08:32	13-Apr-15	09:42	---	---	---	2	1050	1040
Colour [TCU]	09-Apr-15	09:53	09-Apr-15	13:46	--	---	5	3	3 <MDL	3 <MDL
Turbidity [NTU]	08-Apr-15	13:54	09-Apr-15	08:33	1	0.5	5	0.10	1.07	1.13
Ammonia+Ammonium (N) [mg/L]	08-Apr-15	21:40	09-Apr-15	09:08	--	---	--	0.04	0.04 <MDL	0.04 <MDL
Hydrogen Sulphide [mg/L]	09-Apr-15	07:14	09-Apr-15	12:55	---	---	0.05	0.020	0.006 <MDL	0.006 <MDL
Sulphide [mg/L]	09-Apr-15	07:14	09-Apr-15	12:54	---	---	0.05	0.006	0.006 <MDL	0.006 <MDL
Chloride [mg/L]	09-Apr-15	11:13	15-Apr-15	11:51	--	---	250	0.04	110	100
Fluoride [mg/L]	10-Apr-15	17:51	13-Apr-15	16:35	1.5	0.75	--	0.06	0.27	0.26
Nitrite (as N) [mg/L]	09-Apr-15	12:42	10-Apr-15	13:27	1	0.5	---	0.003	0.003 <MDL	0.003 <MDL
Nitrate (as N) [mg/L]	09-Apr-15	12:42	10-Apr-15	13:27	10	5	---	0.006	1.37	1.37
Nitrate + Nitrite (as N) [mg/L]	09-Apr-15	12:42	10-Apr-15	13:27	10	5	---	0.006	1.37	1.37
Sulphate [mg/L]	09-Apr-15	11:13	15-Apr-15	11:51	--	---	500	0.04	98	98
Hardness [mg/L as CaCO3]	09-Apr-15	11:35	10-Apr-15	07:57	--	---	80-100	0.0	482	488
Aluminum [ug/L]	09-Apr-15	11:35	10-Apr-15	07:57	--	---	100	10	10 <MDL	18
Calcium [mg/L]	09-Apr-15	11:35	10-Apr-15	07:57	---	---	---	0.02	127	129
Iron [ug/L]	09-Apr-15	11:35	10-Apr-15	07:57	--	---	300	2	2 <MDL	2 <MDL
Sodium [mg/L]	09-Apr-15	11:35	10-Apr-15	07:57	20*	---	200	0.01	43.3	43.5
Magnesium [mg/L]	09-Apr-15	11:35	10-Apr-15	07:56	---	---	---	0.003	39.8	40.1
Manganese [ug/L]	09-Apr-15	11:35	10-Apr-15	07:56	--	---	50	0.1	97.6	80.1
Lead [ug/L]	10-Apr-15	16:43	13-Apr-15	09:13	10	5	--	0.01	0.06	0.11
Trihalomethanes (total) [ug/L]	09-Apr-15	15:54	14-Apr-15	13:01	100	50	---	0.37	3.9	5.4
Bromodichloromethane [ug/L]	09-Apr-15	15:54	14-Apr-15	13:01	--	---	--	0.26	0.67	0.87
Bromoform [ug/L]	09-Apr-15	15:54	14-Apr-15	13:01	--	---	--	0.34	1.1	1.8
Chloroform [ug/L]	09-Apr-15	15:54	14-Apr-15	13:01	--	---	--	0.29	0.34	0.37
Dibromochloromethane [ug/L]	09-Apr-15	15:54	14-Apr-15	13:01	--	---	--	0.37	1.8	2.4

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

0000385180

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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]IC-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]IC-LAK-AN-001
Nitrate + Nitrite (as N)	Total Nitrates by Dionex - solution	ME-CA-[ENV]IC-LAK-AN-001
Nitrite (as N)	Nitrate by Dionex - solution	ME-CA-[ENV]IC-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]IC-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

OnLine LIMS

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