Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your C.O.C. #: 532470-01-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/21
Report #: R3727823
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K2703
Received: 2015/10/06, 08:30

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	8	N/A	2015/10/21	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	2	2015/10/20	2015/10/20	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	6	2015/10/20	2015/10/21	CAM SOP-00301	EPA 8270 m
Acidity as CaC03 in liquid (1, 2)	8	2015/10/08	2015/10/13	SLA SOP-00100	APHA SM2310B (Mod)
Alkalinity	8	N/A	2015/10/07	CAM SOP-00448	SM 22 2320 B m
Carbonate, Bicarbonate and Hydroxide	8	N/A	2015/10/08	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	8	N/A	2015/10/15		EPA 8260C m
Chloride by Automated Colourimetry	8	N/A	2015/10/08	CAM SOP-00463	EPA 325.2 m
Conductivity	8	N/A	2015/10/08	CAM SOP-00414	SM 22 2510 m
Chromium (VI) in Water	6	N/A	2015/10/07	CAM SOP-00436	EPA 7199 m
Chromium (VI) in Water	2	N/A	2015/10/08	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	6	N/A	2015/10/08	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	2	N/A	2015/10/13	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (3)	7	N/A	2015/10/07	CAM SOP-00446	SM 22 5310 B m
Dissolved Organic Carbon (DOC) (3)	1	N/A	2015/10/08	CAM SOP-00446	SM 22 5310 B m
Petroleum Hydro. CCME F1 & BTEX in Water	8	N/A	2015/10/10	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (4)	8	2015/10/10	2015/10/10	CAM SOP-00316	CCME PHC-CWS m
Fluoride	8	2015/10/07	2015/10/07	CAM SOP-00449	SM 22 4500-F C m
Hardness (calculated as CaCO3)	8	N/A	2015/10/15	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	2	2015/10/08	2015/10/09	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	6	2015/10/09	2015/10/13	CAM SOP-00453	EPA 7470A m
Metals Analysis by ICPMS (as received) (5)	5	2015/10/08	2015/10/08	CAM SOP-00447	EPA 6020A m
Metals Analysis by ICPMS (as received) (5)	3	2015/10/14	2015/10/14	CAM SOP-00447	EPA 6020A m
Ion Balance (% Difference)	8	N/A	2015/10/15		
Anion and Cation Sum	8	N/A	2015/10/15		
Total Coliforms/ E. coli, CFU/100mL	8	N/A	2015/10/06	CAM SOP-00551	MOE E3407
Total Ammonia-N	3	N/A	2015/10/13	CAM SOP-00441	EPA GS I-2522-90 m
Total Ammonia-N	5	N/A	2015/10/14	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (6)	8	N/A	2015/10/08	CAM SOP-00440	SM 22 4500-NO3I/NO2B

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

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Sample Matrix: Water
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Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Polychlorinated Biphenyl in Water	1	2015/10/08	2015/10/08	CAM SOP-00309	EPA 8082A m
Polychlorinated Biphenyl in Water	7	2015/10/08	2015/10/09	CAM SOP-00309	EPA 8082A m
pH	8	N/A	2015/10/07	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	8	N/A	2015/10/08	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	8	N/A	2015/10/15		
Sat. pH and Langelier Index (@ 4C)	8	N/A	2015/10/15		
Sulphate by Automated Colourimetry	8	N/A	2015/10/08	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	8	N/A	2015/10/15		
Total Dissolved Solids	2	N/A	2015/10/07	CAM SOP-00428	SM 22 2540C m
Total Dissolved Solids	2	N/A	2015/10/08	CAM SOP-00428	SM 22 2540C m
Total Dissolved Solids	4	N/A	2015/10/09	CAM SOP-00428	SM 22 2540C m
Total Organic Carbon (TOC) (7)	8	N/A	2015/10/09	CAM SOP-00446	SM 22 5310B m
Total Suspended Solids	2	N/A	2015/10/08	CAM SOP-00428	SM 22 2540D m
Total Suspended Solids	6	N/A	2015/10/09	CAM SOP-00428	SM 22 2540D m
Turbidity	8	N/A	2015/10/06	CAM SOP-00417	SM 22 2130 B m
Volatile Organic Compounds in Water	7	N/A	2015/10/09	CAM SOP000228	EPA 8260C m
Volatile Organic Compounds in Water	1	N/A	2015/10/10	CAM SOP000228	EPA 8260C m

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

Maxxam Analytics is accredited for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

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(1) This test was performed by Maxxam Sladeview Petrochemical
(2) Sample(s) analyzed using methodologies that have not been subjected to Maxxam's standard validation process for the submitted matrix and is not an Accredited method. Analysis performed with client consent, however results should be viewed with discretion
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
(5) Metals analysis was performed on the sample 'as received'.
(6) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(7) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Deepthi Shaji, Project Manager
Email: dshaji@maxxam.ca
Phone# (905)817-5700 Ext:5807

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCM866	BCM866			BCM867		
Sampling Date		2015/10/05 09:50	2015/10/05 09:50			2015/10/05 06:55		
COC Number		532470-01-01	532470-01-01			532470-01-01		
	UNITS	WG-160900764-20151005-JK1	WG-160900764-20151005-JK1 Lab-Dup	RDL	QC Batch	WG-160900764-20151005-JK2	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	19.0		N/A	4218508	3.35	N/A	4218508
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	300		1.0	4218503	130	1.0	4218503
Calculated TDS	mg/L	1100		1.0	4218511	190	1.0	4218511
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.0		1.0	4218503	<1.0	1.0	4218503
Cation Sum	me/L	19.5		N/A	4218508	3.25	N/A	4218508
Hardness (CaCO3)	mg/L	410		1.0	4218506	89	1.0	4218506
Ion Balance (% Difference)	%	1.51		N/A	4218507	1.54	N/A	4218507
Langelier Index (@ 20C)	N/A	0.579			4218509	-0.374		4218509
Langelier Index (@ 4C)	N/A	0.333			4218510	-0.624		4218510
Saturation pH (@ 20C)	N/A	6.97			4218509	8.05		4218509
Saturation pH (@ 4C)	N/A	7.21			4218510	8.30		4218510
Inorganics								
Total Ammonia-N	mg/L	0.28		0.050	4224046	0.30	0.050	4225030
Conductivity	umho/cm	2000		1.0	4220784	300	1.0	4220784
Dissolved Organic Carbon	mg/L	1.1		0.20	4221077	0.65	0.20	4221077
Orthophosphate (P)	mg/L	<0.010		0.010	4221383	<0.010	0.010	4221383
pH	pH	7.55		N/A	4220786	7.68	N/A	4220786
Dissolved Sulphate (SO4)	mg/L	32		1.0	4221385	34	1.0	4221385
Alkalinity (Total as CaCO3)	mg/L	310		1.0	4220783	130	1.0	4220783
Dissolved Chloride (Cl)	mg/L	420		5.0	4221377	1.6	1.0	4221377
Nitrite (N)	mg/L	<0.010		0.010	4220806	<0.010	0.010	4220806
Nitrate (N)	mg/L	3.31		0.10	4220806	<0.10	0.10	4220806
Metals								
. Aluminum (Al)	mg/L	<0.0050	<0.0050	0.0050	4222442	0.0069	0.0050	4228331
. Antimony (Sb)	mg/L	<0.00050	<0.00050	0.00050	4222442	<0.00050	0.00050	4228331
. Arsenic (As)	mg/L	<0.0010	<0.0010	0.0010	4222442	0.0027	0.0010	4228331
. Barium (Ba)	mg/L	0.15	0.15	0.0020	4222442	0.032	0.0020	4228331
. Beryllium (Be)	mg/L	<0.00050	<0.00050	0.00050	4222442	<0.00050	0.00050	4228331
. Boron (B)	mg/L	<0.010	<0.010	0.010	4222442	0.075	0.010	4228331
. Cadmium (Cd)	mg/L	<0.00010	<0.00010	0.00010	4222442	<0.00010	0.00010	4228331
. Calcium (Ca)	mg/L	130	130	0.20	4222442	17	0.20	4228331

RDL = Reportable Detection Limit
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N/A = Not Applicable

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RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCM866	BCM866			BCM867		
Sampling Date		2015/10/05 09:50	2015/10/05 09:50			2015/10/05 06:55		
COC Number		532470-01-01	532470-01-01			532470-01-01		
	UNITS	WG-160900764-20151005-JK1	WG-160900764-20151005-JK1 Lab-Dup	RDL	QC Batch	WG-160900764-20151005-JK2	RDL	QC Batch
. Chromium (Cr)	mg/L	<0.0050	<0.0050	0.0050	4222442	<0.0050	0.0050	4228331
. Cobalt (Co)	mg/L	<0.00050	<0.00050	0.00050	4222442	<0.00050	0.00050	4228331
. Copper (Cu)	mg/L	0.017	0.017	0.0010	4222442	0.013	0.0010	4228331
. Iron (Fe)	mg/L	<0.10	<0.10	0.10	4222442	<0.10	0.10	4228331
. Lead (Pb)	mg/L	0.0013	0.0013	0.00050	4222442	<0.00050	0.00050	4228331
. Magnesium (Mg)	mg/L	22	22	0.050	4222442	12	0.050	4228331
. Manganese (Mn)	mg/L	<0.0020	<0.0020	0.0020	4222442	0.012	0.0020	4228331
. Molybdenum (Mo)	mg/L	<0.00050	<0.00050	0.00050	4222442	0.0057	0.00050	4228331
. Nickel (Ni)	mg/L	<0.0010	<0.0010	0.0010	4222442	<0.0010	0.0010	4228331
. Phosphorus (P)	mg/L	<0.10	<0.10	0.10	4222442	<0.10	0.10	4228331
. Potassium (K)	mg/L	2.1	2.1	0.20	4222442	0.82	0.20	4228331
. Selenium (Se)	mg/L	<0.0020	<0.0020	0.0020	4222442	<0.0020	0.0020	4228331
. Silicon (Si)	mg/L	7.6	7.7	0.050	4222442	6.6	0.050	4228331
. Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	4222442	<0.00010	0.00010	4228331
. Sodium (Na)	mg/L	260	260	0.10	4222442	33	0.10	4228331
. Strontium (Sr)	mg/L	0.35	0.35	0.0010	4222442	0.36	0.0010	4228331
. Thallium (Tl)	mg/L	<0.000050	<0.000050	0.000050	4222442	<0.000050	0.000050	4228331
. Titanium (Ti)	mg/L	<0.0050	<0.0050	0.0050	4222442	<0.0050	0.0050	4228331
. Uranium (U)	mg/L	0.00065	0.00060	0.00010	4222442	0.00033	0.00010	4228331
. Vanadium (V)	mg/L	0.00053	0.00052	0.00050	4222442	<0.00050	0.00050	4228331
. Zinc (Zn)	mg/L	<0.0050	<0.0050	0.0050	4222442	0.014	0.0050	4228331
. Zirconium (Zr)	mg/L	<0.0010	<0.0010	0.0010	4222442	<0.0010	0.0010	4228331

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Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCM868	BCM868	BCM869		BCM870		
Sampling Date		2015/10/05 12:38	2015/10/05 12:38	2015/10/05 13:30		2015/10/05 14:18		
COC Number		532470-01-01	532470-01-01	532470-01-01		532470-01-01		
	UNITS	WG-160900764-20151005-JK3	WG-160900764-20151005-JK3 Lab-Dup	WG-160900764-20151005-JK4	QC Batch	WG-160900764-20151005-JK5	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	8.55		3.39	4218508	3.97	N/A	4218508
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	370		160	4218503	180	1.0	4218503
Calculated TDS	mg/L	460		190	4218511	220	1.0	4218511
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0		<1.0	4218503	<1.0	1.0	4218503
Cation Sum	me/L	8.67		3.52	4218508	4.18	N/A	4218508
Hardness (CaCO3)	mg/L	410		150	4218506	190	1.0	4218506
Ion Balance (% Difference)	%	0.690		1.98	4218507	2.58	N/A	4218507
Langelier Index (@ 20C)	N/A	0.542		0.0840	4218509	0.317		4218509
Langelier Index (@ 4C)	N/A	0.294		-0.166	4218510	0.0670		4218510
Saturation pH (@ 20C)	N/A	6.80		7.69	4218509	7.43		4218509
Saturation pH (@ 4C)	N/A	7.05		7.94	4218510	7.68		4218510
Inorganics								
Total Ammonia-N	mg/L	<0.050		0.11	4225030	0.12	0.050	4224046
Conductivity	umho/cm	790		300	4220784	360	1.0	4220784
Dissolved Organic Carbon	mg/L	1.3	1.2	0.55	4221294	0.72	0.20	4221077
Orthophosphate (P)	mg/L	<0.010		<0.010	4221383	<0.010	0.010	4221383
pH	pH	7.34		7.77	4220786	7.75	N/A	4220786
Dissolved Sulphate (SO4)	mg/L	20		9.8	4221385	11	1.0	4221385
Alkalinity (Total as CaCO3)	mg/L	370		160	4220783	180	1.0	4220783
Dissolved Chloride (Cl)	mg/L	11		1.2	4221377	1.9	1.0	4221377
Nitrite (N)	mg/L	<0.010		<0.010	4220806	<0.010	0.010	4220806
Nitrate (N)	mg/L	6.59		<0.10	4220806	<0.10	0.10	4220806
Metals								
. Aluminum (Al)	mg/L	0.013	0.012	<0.0050	4228331	0.0052	0.0050	4222442
. Antimony (Sb)	mg/L	<0.00050	<0.00050	<0.00050	4228331	<0.00050	0.00050	4222442
. Arsenic (As)	mg/L	<0.0010	<0.0010	0.0016	4228331	<0.0010	0.0010	4222442
. Barium (Ba)	mg/L	0.067	0.065	0.12	4228331	0.18	0.0020	4222442
. Beryllium (Be)	mg/L	<0.00050	<0.00050	<0.00050	4228331	<0.00050	0.00050	4222442
. Boron (B)	mg/L	<0.010	<0.010	0.037	4228331	0.019	0.010	4222442
. Cadmium (Cd)	mg/L	<0.00010	<0.00010	<0.00010	4228331	<0.00010	0.00010	4222442
. Calcium (Ca)	mg/L	120	130	32	4228331	50	0.20	4222442

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RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCM868	BCM868	BCM869		BCM870		
Sampling Date		2015/10/05 12:38	2015/10/05 12:38	2015/10/05 13:30		2015/10/05 14:18		
COC Number		532470-01-01	532470-01-01	532470-01-01		532470-01-01		
	UNITS	WG-160900764-20151005-JK3	WG-160900764-20151005-JK3 Lab-Dup	WG-160900764-20151005-JK4	QC Batch	WG-160900764-20151005-JK5	RDL	QC Batch
. Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	4228331	<0.0050	0.0050	4222442
. Cobalt (Co)	mg/L	<0.00050	<0.00050	<0.00050	4228331	<0.00050	0.00050	4222442
. Copper (Cu)	mg/L	0.020	0.020	<0.0010	4228331	<0.0010	0.0010	4222442
. Iron (Fe)	mg/L	<0.10	<0.10	<0.10	4228331	1.6	0.10	4222442
. Lead (Pb)	mg/L	<0.00050	<0.00050	<0.00050	4228331	<0.00050	0.00050	4222442
. Magnesium (Mg)	mg/L	24	23	16	4228331	16	0.050	4222442
. Manganese (Mn)	mg/L	<0.0020	<0.0020	0.029	4228331	0.024	0.0020	4222442
. Molybdenum (Mo)	mg/L	<0.00050	<0.00050	0.0016	4228331	0.00070	0.00050	4222442
. Nickel (Ni)	mg/L	<0.0010	<0.0010	<0.0010	4228331	<0.0010	0.0010	4222442
. Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	4228331	<0.10	0.10	4222442
. Potassium (K)	mg/L	1.9	1.9	0.88	4228331	1.1	0.20	4222442
. Selenium (Se)	mg/L	<0.0020	<0.0020	<0.0020	4228331	<0.0020	0.0020	4222442
. Silicon (Si)	mg/L	9.7	9.7	11	4228331	12	0.050	4222442
. Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	4228331	<0.00010	0.00010	4222442
. Sodium (Na)	mg/L	11	10	14	4228331	6.7	0.10	4222442
. Strontium (Sr)	mg/L	0.27	0.26	0.33	4228331	0.26	0.0010	4222442
. Thallium (Tl)	mg/L	<0.000050	<0.000050	<0.000050	4228331	<0.000050	0.000050	4222442
. Titanium (Ti)	mg/L	<0.0050	<0.0050	<0.0050	4228331	<0.0050	0.0050	4222442
. Uranium (U)	mg/L	0.00065	0.00063	<0.00010	4228331	<0.00010	0.00010	4222442
. Vanadium (V)	mg/L	<0.00050	<0.00050	<0.00050	4228331	<0.00050	0.00050	4222442
. Zinc (Zn)	mg/L	0.0067	0.0079	<0.0050	4228331	<0.0050	0.0050	4222442
. Zirconium (Zr)	mg/L	<0.0010	<0.0010	<0.0010	4228331	<0.0010	0.0010	4222442

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCM870			BCM871		BCM872		
Sampling Date		2015/10/05 14:18			2015/10/05 14:46		2015/10/05 16:08		
COC Number		532470-01-01			532470-01-01		532470-01-01		
	UNITS	WG-160900764-20151005-JK5 Lab-Dup	RDL	QC Batch	WG-160900764-20151005-JK6	RDL	WG-160900764-20151005-JK7	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L		N/A	4218508	8.27	N/A	7.16	N/A	4218508
Bicarb. Alkalinity (calc. as CaCO3)	mg/L		1.0	4218503	300	1.0	300	1.0	4218503
Calculated TDS	mg/L		1.0	4218511	470	1.0	390	1.0	4218511
Carb. Alkalinity (calc. as CaCO3)	mg/L		1.0	4218503	1.1	1.0	1.1	1.0	4218503
Cation Sum	me/L		N/A	4218508	8.54	N/A	7.30	N/A	4218508
Hardness (CaCO3)	mg/L		1.0	4218506	400	1.0	350	1.0	4219655
Ion Balance (% Difference)	%		N/A	4218507	1.58	N/A	0.980	N/A	4218507
Langelier Index (@ 20C)	N/A			4218509	0.684		0.698		4218509
Langelier Index (@ 4C)	N/A			4218510	0.436		0.450		4218510
Saturation pH (@ 20C)	N/A			4218509	6.90		6.88		4218509
Saturation pH (@ 4C)	N/A			4218510	7.15		7.12		4218510
Inorganics									
Total Ammonia-N	mg/L	0.11	0.050	4224046	<0.050	0.050	<0.050	0.050	4224046
Conductivity	umho/cm		1.0	4220784	770	1.0	660	1.0	4220784
Dissolved Organic Carbon	mg/L		0.20	4221077	1.1	0.20	0.98	0.20	4221077
Orthophosphate (P)	mg/L		0.010	4221383	<0.010	0.010	<0.010	0.010	4221383
pH	pH		N/A	4220786	7.58	N/A	7.57	N/A	4220786
Dissolved Sulphate (SO4)	mg/L		1.0	4221385	49	1.0	19	1.0	4221385
Alkalinity (Total as CaCO3)	mg/L		1.0	4220783	300	1.0	300	1.0	4220783
Dissolved Chloride (Cl)	mg/L		1.0	4221377	20	1.0	14	1.0	4221377
Nitrite (N)	mg/L		0.010	4220806	<0.010	0.010	<0.010	0.010	4220806
Nitrate (N)	mg/L		0.10	4220806	8.54	0.50	4.29	0.10	4220806
Metals									
. Aluminum (Al)	mg/L		0.0050	4222442	<0.0050	0.0050	<0.0050	0.0050	4222442
. Antimony (Sb)	mg/L		0.00050	4222442	<0.00050	0.00050	<0.00050	0.00050	4222442
. Arsenic (As)	mg/L		0.0010	4222442	<0.0010	0.0010	<0.0010	0.0010	4222442
. Barium (Ba)	mg/L		0.0020	4222442	0.12	0.0020	0.044	0.0020	4222442
. Beryllium (Be)	mg/L		0.00050	4222442	<0.00050	0.00050	<0.00050	0.00050	4222442
. Boron (B)	mg/L		0.010	4222442	0.011	0.010	0.011	0.010	4222442
. Cadmium (Cd)	mg/L		0.00010	4222442	<0.00010	0.00010	<0.00010	0.00010	4222442
. Calcium (Ca)	mg/L		0.20	4222442	120	0.20	120	0.20	4222442

RDL = Reportable Detection Limit
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N/A = Not Applicable

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCM870			BCM871		BCM872		
Sampling Date		2015/10/05 14:18			2015/10/05 14:46		2015/10/05 16:08		
COC Number		532470-01-01			532470-01-01		532470-01-01		
	UNITS	WG-160900764-20151005-JK5 Lab-Dup	RDL	QC Batch	WG-160900764-20151005-JK6	RDL	WG-160900764-20151005-JK7	RDL	QC Batch
. Chromium (Cr)	mg/L		0.0050	4222442	<0.0050	0.0050	<0.0050	0.0050	4222442
. Cobalt (Co)	mg/L		0.00050	4222442	<0.00050	0.00050	<0.00050	0.00050	4222442
. Copper (Cu)	mg/L		0.0010	4222442	0.013	0.0010	0.0095	0.0010	4222442
. Iron (Fe)	mg/L		0.10	4222442	<0.10	0.10	<0.10	0.10	4222442
. Lead (Pb)	mg/L		0.00050	4222442	0.0013	0.00050	<0.00050	0.00050	4222442
. Magnesium (Mg)	mg/L		0.050	4222442	24	0.050	11	0.050	4222442
. Manganese (Mn)	mg/L		0.0020	4222442	<0.0020	0.0020	<0.0020	0.0020	4222442
. Molybdenum (Mo)	mg/L		0.00050	4222442	<0.00050	0.00050	<0.00050	0.00050	4222442
. Nickel (Ni)	mg/L		0.0010	4222442	<0.0010	0.0010	<0.0010	0.0010	4222442
. Phosphorus (P)	mg/L		0.10	4222442	<0.10	0.10	<0.10	0.10	4222442
. Potassium (K)	mg/L		0.20	4222442	8.4	0.20	1.0	0.20	4222442
. Selenium (Se)	mg/L		0.0020	4222442	<0.0020	0.0020	<0.0020	0.0020	4222442
. Silicon (Si)	mg/L		0.050	4222442	8.4	0.050	6.1	0.050	4222442
. Silver (Ag)	mg/L		0.00010	4222442	<0.00010	0.00010	<0.00010	0.00010	4222442
. Sodium (Na)	mg/L		0.10	4222442	7.5	0.10	7.2	0.10	4222442
. Strontium (Sr)	mg/L		0.0010	4222442	0.30	0.0010	0.22	0.0010	4222442
. Thallium (Tl)	mg/L		0.000050	4222442	<0.000050	0.000050	<0.000050	0.000050	4222442
. Titanium (Ti)	mg/L		0.0050	4222442	<0.0050	0.0050	<0.0050	0.0050	4222442
. Uranium (U)	mg/L		0.00010	4222442	0.0011	0.00010	0.00056	0.00010	4222442
. Vanadium (V)	mg/L		0.00050	4222442	<0.00050	0.00050	<0.00050	0.00050	4222442
. Zinc (Zn)	mg/L		0.0050	4222442	0.13	0.0050	<0.0050	0.0050	4222442
. Zirconium (Zr)	mg/L		0.0010	4222442	<0.0010	0.0010	<0.0010	0.0010	4222442

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCM872	BCM873		
Sampling Date		2015/10/05 16:08	2015/10/05 16:49		
COC Number		532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK7 Lab-Dup	WG-160900764-20151005-JK8	RDL	QC Batch
Calculated Parameters					
Anion Sum	me/L		9.41	N/A	4218508
Bicarb. Alkalinity (calc. as CaCO3)	mg/L		340	1.0	4218503
Calculated TDS	mg/L		520	1.0	4218511
Carb. Alkalinity (calc. as CaCO3)	mg/L		1.2	1.0	4218503
Cation Sum	me/L		9.78	N/A	4218508
Hardness (CaCO3)	mg/L		430	1.0	4219655
Ion Balance (% Difference)	%		1.92	N/A	4218507
Langelier Index (@ 20C)	N/A		0.796		4218509
Langelier Index (@ 4C)	N/A		0.548		4218510
Saturation pH (@ 20C)	N/A		6.78		4218509
Saturation pH (@ 4C)	N/A		7.02		4218510
Inorganics					
Total Ammonia-N	mg/L		<0.050	0.050	4224046
Conductivity	umho/cm	660	870	1.0	4220784
Dissolved Organic Carbon	mg/L		0.84	0.20	4221077
Orthophosphate (P)	mg/L	<0.010	<0.010	0.010	4221383
pH	pH	7.60	7.57	N/A	4220786
Dissolved Sulphate (SO4)	mg/L	18	23	1.0	4221385
Alkalinity (Total as CaCO3)	mg/L	310	340	1.0	4220783
Dissolved Chloride (Cl)	mg/L	14	64	1.0	4221377
Nitrite (N)	mg/L		<0.010	0.010	4220806
Nitrate (N)	mg/L		4.06	0.10	4220806
Metals					
. Aluminum (Al)	mg/L		<0.0050	0.0050	4222442
. Antimony (Sb)	mg/L		<0.00050	0.00050	4222442
. Arsenic (As)	mg/L		<0.0010	0.0010	4222442
. Barium (Ba)	mg/L		0.071	0.0020	4222442
. Beryllium (Be)	mg/L		<0.00050	0.00050	4222442
. Boron (B)	mg/L		0.015	0.010	4222442
. Cadmium (Cd)	mg/L		<0.00010	0.00010	4222442
. Calcium (Ca)	mg/L		140	0.20	4222442

RDL = Reportable Detection Limit
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N/A = Not Applicable

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCM872	BCM873		
Sampling Date		2015/10/05 16:08	2015/10/05 16:49		
COC Number		532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK7 Lab-Dup	WG-160900764-20151005-JK8	RDL	QC Batch
. Chromium (Cr)	mg/L		<0.0050	0.0050	4222442
. Cobalt (Co)	mg/L		<0.00050	0.00050	4222442
. Copper (Cu)	mg/L		0.044	0.0010	4222442
. Iron (Fe)	mg/L		<0.10	0.10	4222442
. Lead (Pb)	mg/L		0.0014	0.00050	4222442
. Magnesium (Mg)	mg/L		18	0.050	4222442
. Manganese (Mn)	mg/L		<0.0020	0.0020	4222442
. Molybdenum (Mo)	mg/L		<0.00050	0.00050	4222442
. Nickel (Ni)	mg/L		<0.0010	0.0010	4222442
. Phosphorus (P)	mg/L		<0.10	0.10	4222442
. Potassium (K)	mg/L		0.96	0.20	4222442
. Selenium (Se)	mg/L		<0.0020	0.0020	4222442
. Silicon (Si)	mg/L		7.8	0.050	4222442
. Silver (Ag)	mg/L		<0.00010	0.00010	4222442
. Sodium (Na)	mg/L		27	0.10	4222442
. Strontium (Sr)	mg/L		0.29	0.0010	4222442
. Thallium (Tl)	mg/L		<0.000050	0.000050	4222442
. Titanium (Ti)	mg/L		<0.0050	0.0050	4222442
. Uranium (U)	mg/L		0.00057	0.00010	4222442
. Vanadium (V)	mg/L		<0.00050	0.00050	4222442
. Zinc (Zn)	mg/L		0.030	0.0050	4222442
. Zirconium (Zr)	mg/L		<0.0010	0.0010	4222442

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RESULTS OF ANALYSES OF WATER

Maxxam ID		BCM866	BCM866		BCM867	BCM867		
Sampling Date		2015/10/05 09:50	2015/10/05 09:50		2015/10/05 06:55	2015/10/05 06:55		
COC Number		532470-01-01	532470-01-01		532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK1	WG-160900764-20151005-JK1 Lab-Dup	QC Batch	WG-160900764-20151005-JK2	WG-160900764-20151005-JK2 Lab-Dup	RDL	QC Batch
Inorganics								
Acidity as CaC03	mg/L	28		4223107	<10		10	4223107
Total Dissolved Solids	mg/L	1080		4220751	176		10	4220711
Fluoride (F-)	mg/L	<0.10		4220781	0.38		0.10	4220781
Free Cyanide	ug/L	<2	<2	4221069	<2	<2	2	4221074
Total Organic Carbon (TOC)	mg/L	1.2		4224869	0.64		0.20	4224869
Total Suspended Solids	mg/L	<10		4222329	<10	<10	10	4220707
Turbidity	NTU	<0.2		4219483	<0.2		0.2	4219483

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		BCM868		BCM869		BCM870	BCM871		
Sampling Date		2015/10/05 12:38		2015/10/05 13:30		2015/10/05 14:18	2015/10/05 14:46		
COC Number		532470-01-01		532470-01-01		532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK3	QC Batch	WG-160900764-20151005-JK4	QC Batch	WG-160900764-20151005-JK5	WG-160900764-20151005-JK6	RDL	QC Batch
Inorganics									
Acidity as CaC03	mg/L	57	4223107	<10	4223107	<10	42	10	4223107
Total Dissolved Solids	mg/L	474	4223103	198	4223103	216	478	10	4220711
Fluoride (F-)	mg/L	<0.10	4220781	0.26	4220781	0.15	<0.10	0.10	4220781
Free Cyanide	ug/L	<2	4221069	<2	4221074	<2	<2	2	4221069
Total Organic Carbon (TOC)	mg/L	1.3	4224869	0.58	4224869	0.69	1.1	0.20	4224869
Total Suspended Solids	mg/L	<10	4221289	<10	4221289	<10	<10	10	4220707
Turbidity	NTU	<0.2	4219483	<0.2	4219483	8.1	<0.2	0.2	4219483

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RESULTS OF ANALYSES OF WATER

Maxxam ID		BCM872	BCM872		BCM873	BCM873		
Sampling Date		2015/10/05 16:08	2015/10/05 16:08		2015/10/05 16:49	2015/10/05 16:49		
COC Number		532470-01-01	532470-01-01		532470-01-01	532470-01-01		
	UNITS	**WG-160900764 -20151005-JK7**	**WG-160900764 -20151005-JK7 Lab-Dup**	**QC Batch**	**WG-160900764 -20151005-JK8**	**WG-160900764 -20151005-JK8 Lab-Dup**	**RDL**	**QC Batch**
Inorganics								
Acidity as CaC03	mg/L	40		4223107	50	52	10	4223107
Total Dissolved Solids	mg/L	386		4220711	472		10	4220751
Fluoride (F-)	mg/L	<0.10	<0.10	4220781	<0.10		0.10	4220781
Free Cyanide	ug/L	<2		4221069	<2		2	4221069
Total Organic Carbon (TOC)	mg/L	0.98		4224869	0.85		0.20	4224869
Total Suspended Solids	mg/L	<10		4220707	<10		10	4222329
Turbidity	NTU	<0.2		4219483	<0.2		0.2	4219483

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		BCM866		BCM867		BCM868		
Sampling Date		2015/10/05 09:50		2015/10/05 06:55		2015/10/05 12:38		
COC Number		532470-01-01		532470-01-01		532470-01-01		
	UNITS	WG-160900764-20151005-JK1	QC Batch	WG-160900764-20151005-JK2	QC Batch	WG-160900764-20151005-JK3	RDL	QC Batch
Metals								
Chromium (VI)	ug/L	<0.50	4220901	<0.50	4221129	0.83	0.50	4221129
Mercury (Hg)	mg/L	<0.00010	4223923	<0.00010	4222434	<0.00010	0.00010	4223923

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		BCM869		BCM870	BCM871	BCM872		
Sampling Date		2015/10/05 13:30		2015/10/05 14:18	2015/10/05 14:46	2015/10/05 16:08		
COC Number		532470-01-01		532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK4	QC Batch	WG-160900764-20151005-JK5	WG-160900764-20151005-JK6	WG-160900764-20151005-JK7	RDL	QC Batch
Metals								
Chromium (VI)	ug/L	<0.50	4221129	<0.50	1.7	0.50	0.50	4221129
Mercury (Hg)	mg/L	<0.00010	4222434	<0.00010	<0.00010	<0.00010	0.00010	4223923

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		BCM872		BCM873		
Sampling Date		2015/10/05 16:08		2015/10/05 16:49		
COC Number		532470-01-01		532470-01-01		
	UNITS	WG-160900764-20151005-JK7 Lab-Dup	QC Batch	WG-160900764-20151005-JK8	RDL	QC Batch
Metals						
Chromium (VI)	ug/L		4221129	0.58	0.50	4220901
Mercury (Hg)	mg/L	<0.00010	4223923	<0.00010	0.00010	4223923

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
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MICROBIOLOGY (WATER)

Maxxam ID		BCM866	BCM867	BCM868	BCM869	BCM870	
Sampling Date		2015/10/05 09:50	2015/10/05 06:55	2015/10/05 12:38	2015/10/05 13:30	2015/10/05 14:18	
COC Number		532470-01-01	532470-01-01	532470-01-01	532470-01-01	532470-01-01	
	UNITS	WG-160900764-20151005-JK1	WG-160900764-20151005-JK2	WG-160900764-20151005-JK3	WG-160900764-20151005-JK4	WG-160900764-20151005-JK5	QC Batch
Microbiological							
Background	CFU/100mL	53	0	380	10	0	4219680
Total Coliforms	CFU/100mL	11	0	7	1	0	4219680
Escherichia coli	CFU/100mL	0	0	0	0	0	4219680
QC Batch = Quality Control Batch							

Maxxam ID		BCM871	BCM872	BCM873	
Sampling Date		2015/10/05 14:46	2015/10/05 16:08	2015/10/05 16:49	
COC Number		532470-01-01	532470-01-01	532470-01-01	
	UNITS	WG-160900764-20151005-JK6	WG-160900764-20151005-JK7	WG-160900764-20151005-JK8	QC Batch
Microbiological					
Background	CFU/100mL	0	500	0	4219680
Total Coliforms	CFU/100mL	0	9	0	4219680
Escherichia coli	CFU/100mL	0	0	0	4219680
QC Batch = Quality Control Batch					

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 PCBS (WATER)

Maxxam ID		BCM866	BCM867	BCM867	BCM868	BCM869		
Sampling Date		2015/10/05 09:50	2015/10/05 06:55	2015/10/05 06:55	2015/10/05 12:38	2015/10/05 13:30		
COC Number		532470-01-01	532470-01-01	532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK1	WG-160900764-20151005-JK2	WG-160900764-20151005-JK2 Lab-Dup	WG-160900764-20151005-JK3	WG-160900764-20151005-JK4	RDL	QC Batch
PCBs								
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Surrogate Recovery (%)								
Decachlorobiphenyl	%	64	68	60	65	68		4222370

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		BCM870	BCM871	BCM872	BCM873		
Sampling Date		2015/10/05 14:18	2015/10/05 14:46	2015/10/05 16:08	2015/10/05 16:49		
COC Number		532470-01-01	532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK5	WG-160900764-20151005-JK6	WG-160900764-20151005-JK7	WG-160900764-20151005-JK8	RDL	QC Batch
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Surrogate Recovery (%)							
Decachlorobiphenyl	%	71	72	76	71		4222370

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCM866	BCM866	BCM867	BCM868	BCM869		
Sampling Date		2015/10/05 09:50	2015/10/05 09:50	2015/10/05 06:55	2015/10/05 12:38	2015/10/05 13:30		
COC Number		532470-01-01	532470-01-01	532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK1	WG-160900764-20151005-JK1 Lab-Dup	WG-160900764-20151005-JK2	WG-160900764-20151005-JK3	WG-160900764-20151005-JK4	RDL	QC Batch
BTEX & F1 Hydrocarbons								
F1 (C6-C10)	ug/L	<25	<25	<25	<25	<25	25	4225756
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	<25	25	4225756
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100		<100	<100	<100	100	4225661
F3 (C16-C34 Hydrocarbons)	ug/L	<200		440	<200	<200	200	4225661
F4 (C34-C50 Hydrocarbons)	ug/L	<200		<200	<200	<200	200	4225661
Reached Baseline at C50	ug/L	Yes		Yes	Yes	Yes		4225661
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	101	104	102	103	106		4225756
4-Bromofluorobenzene	%	99	102	98	99	99		4225756
D10-Ethylbenzene	%	103	99	104	101	99		4225756
D4-1,2-Dichloroethane	%	93	98	94	94	94		4225756
o-Terphenyl	%	93		94	94	93		4225661

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCM870	BCM871	BCM872	BCM873		
Sampling Date		2015/10/05 14:18	2015/10/05 14:46	2015/10/05 16:08	2015/10/05 16:49		
COC Number		532470-01-01	532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764 -20151005-JK5	WG-160900764 -20151005-JK6	WG-160900764 -20151005-JK7	WG-160900764 -20151005-JK8	RDL	QC Batch
BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	4225756
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	4225756
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	4225661
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	4225661
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	4225661
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		4225661
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	99	99	95	100		4225756
4-Bromofluorobenzene	%	97	102	101	100		4225756
D10-Ethylbenzene	%	102	3.5 (1)	94	101		4225756
D4-1,2-Dichloroethane	%	95	95	99	95		4225756
o-Terphenyl	%	97	94	93	94		4225661

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Please view the results of sample with discretion. The surrogate recovery for the sample was below the acceptance criteria. The sample was reanalyzed with the same results. It was concluded that the sample matrix is reacting with the surrogate resulting in low recovery.

Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCM866		BCM867		BCM868	BCM869	BCM870		
Sampling Date		2015/10/05 09:50		2015/10/05 06:55		2015/10/05 12:38	2015/10/05 13:30	2015/10/05 14:18		
COC Number		532470-01-01		532470-01-01		532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK1	RDL	WG-160900764-20151005-JK2	RDL	WG-160900764-20151005-JK3	WG-160900764-20151005-JK4	WG-160900764-20151005-JK5	RDL	QC Batch
Semivolatile Organics										
1,2,4-Trichlorobenzene	ug/L	<0.2	0.2	<0.3	0.3	<0.1	<0.1	<0.1	0.1	4236269
1-Methylnaphthalene	ug/L	<0.4	0.4	<0.6	0.6	<0.2	<0.2	<0.2	0.2	4236269
2,4,5-Trichlorophenol	ug/L	<0.4	0.4	<0.6	0.6	<0.2	<0.2	<0.2	0.2	4236269
2,4,6-Trichlorophenol	ug/L	<0.4	0.4	<0.6	0.6	<0.2	<0.2	<0.2	0.2	4236269
2,4-Dichlorophenol	ug/L	<0.2	0.2	<0.3	0.3	<0.1	<0.1	<0.1	0.1	4236269
2,4-Dimethylphenol	ug/L	<1	1	<2	2	<0.5	<0.5	<0.5	0.5	4236269
2,4-Dinitrophenol	ug/L	<4	4	<6	6	<2	<2	<2	2	4236269
2,4-Dinitrotoluene	ug/L	<0.5	0.5	<0.8	0.8	<0.3	<0.3	<0.3	0.3	4236269
2,6-Dinitrotoluene	ug/L	<0.5	0.5	<0.8	0.8	<0.3	<0.3	<0.3	0.3	4236269
2-Chlorophenol	ug/L	<0.2	0.2	<0.3	0.3	<0.1	<0.1	<0.1	0.1	4236269
2-Methylnaphthalene	ug/L	<0.4	0.4	<0.6	0.6	<0.2	<0.2	<0.2	0.2	4236269
3,3'-Dichlorobenzidine	ug/L	<1	1	<2	2	<0.5	<0.5	<0.5	0.5	4236269
Acenaphthene	ug/L	<0.4	0.4	<0.6	0.6	<0.2	<0.2	<0.2	0.2	4236269
Acenaphthylene	ug/L	<0.4	0.4	<0.6	0.6	<0.2	<0.2	<0.2	0.2	4236269
Anthracene	ug/L	<0.1	0.1	<0.2	0.2	<0.05	<0.05	<0.05	0.05	4236269
Benzo(a)anthracene	ug/L	<0.1	0.1	<0.2	0.2	<0.05	<0.05	<0.05	0.05	4236269
Benzo(a)pyrene	ug/L	<0.02	0.02	<0.03	0.03	<0.01	<0.01	<0.01	0.01	4236269
Benzo(b/j)fluoranthene	ug/L	<0.1	0.1	<0.2	0.2	<0.05	<0.05	<0.05	0.05	4236269
Benzo(g,h,i)perylene	ug/L	<0.1	0.1	<0.2	0.2	<0.05	<0.05	<0.05	0.05	4236269
Benzo(k)fluoranthene	ug/L	<0.1	0.1	<0.2	0.2	<0.05	<0.05	<0.05	0.05	4236269
Biphenyl	ug/L	<0.2	0.2	<0.3	0.3	<0.1	<0.1	<0.1	0.1	4236269
Bis(2-chloroethyl)ether	ug/L	<1	1	<2	2	<0.5	<0.5	<0.5	0.5	4236269
Bis(2-chloroisopropyl)ether	ug/L	<1	1	<2	2	<0.5	<0.5	<0.5	0.5	4236269
Bis(2-ethylhexyl)phthalate	ug/L	<2	2	<3	3	<1	<1	<1	1	4236269
Chrysene	ug/L	<0.1	0.1	<0.2	0.2	<0.05	<0.05	<0.05	0.05	4236269
Dibenz(a,h)anthracene	ug/L	<0.2	0.2	<0.3	0.3	<0.1	<0.1	<0.1	0.1	4236269
Diethyl phthalate	ug/L	<0.2	0.2	<0.3	0.3	<0.1	<0.1	<0.1	0.1	4236269
Dimethyl phthalate	ug/L	<0.2	0.2	<0.3	0.3	<0.1	<0.1	<0.1	0.1	4236269
Fluoranthene	ug/L	<0.4	0.4	<0.6	0.6	<0.2	<0.2	<0.2	0.2	4236269
Fluorene	ug/L	<0.4	0.4	<0.6	0.6	<0.2	<0.2	<0.2	0.2	4236269
Indeno(1,2,3-cd)pyrene	ug/L	<0.2	0.2	<0.3	0.3	<0.1	<0.1	<0.1	0.1	4236269
Naphthalene	ug/L	<0.4	0.4	<0.6	0.6	<0.2	<0.2	<0.2	0.2	4236269

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCM866		BCM867		BCM868	BCM869	BCM870		
Sampling Date		2015/10/05 09:50		2015/10/05 06:55		2015/10/05 12:38	2015/10/05 13:30	2015/10/05 14:18		
COC Number		532470-01-01		532470-01-01		532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK1	RDL	WG-160900764-20151005-JK2	RDL	WG-160900764-20151005-JK3	WG-160900764-20151005-JK4	WG-160900764-20151005-JK5	RDL	QC Batch
p-Chloroaniline	ug/L	<2	2	<3	3	<1	<1	<1	1	4236269
Pentachlorophenol	ug/L	<0.2	0.2	<0.3	0.3	<0.1	<0.1	<0.1	0.1	4236269
Phenanthrene	ug/L	<0.2	0.2	<0.3	0.3	<0.1	<0.1	<0.1	0.1	4236269
Phenol	ug/L	<1	1	<2	2	<0.5	<0.5	<0.5	0.5	4236269
Pyrene	ug/L	<0.1	0.1	<0.2	0.2	<0.05	<0.05	<0.05	0.05	4236269
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/L	<0.57	0.57	<0.85	0.85	<0.28	<0.28	<0.28	0.28	4219654
Surrogate Recovery (%)										
2,4,6-Tribromophenol	%	45 (1)		66		75	84	69		4236269
2-Fluorobiphenyl	%	39 (1)		77		66	67	69		4236269
D14-Terphenyl (FS)	%	94		95		94	94	94		4236269
D5-Nitrobenzene	%	41 (1)		80		73	76	78		4236269

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCM871	BCM872	BCM873		
Sampling Date		2015/10/05 14:46	2015/10/05 16:08	2015/10/05 16:49		
COC Number		532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK6	WG-160900764-20151005-JK7	WG-160900764-20151005-JK8	RDL	QC Batch
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	4236269
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	4236269
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	4236269
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	4236269
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	4236269
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	4236269
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	4236269
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	4236269
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	4236269
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	4236269
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	4236269
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	4236269
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	4236269
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	4236269
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	4236269
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	4236269
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	4236269
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	4236269
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	4236269
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	4236269
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	4236269
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	4236269
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	4236269
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	4236269
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	4236269
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	4236269
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	4236269
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	4236269
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	4236269
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	4236269
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	0.1	4236269
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	4236269

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCM871	BCM872	BCM873		
Sampling Date		2015/10/05 14:46	2015/10/05 16:08	2015/10/05 16:49		
COC Number		532470-01-01	532470-01-01	532470-01-01		
	UNITS	**WG-160900764 -20151005-JK6**	**WG-160900764 -20151005-JK7**	**WG-160900764 -20151005-JK8**	**RDL**	**QC Batch**
p-Chloroaniline	ug/L	<1	<1	<1	1	4236269
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	4236269
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	4236269
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	4236269
Pyrene	ug/L	<0.05	<0.05	<0.05	0.05	4236269
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	0.28	4219654
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	10 (1)	71	78		4236269
2-Fluorobiphenyl	%	51	71	58		4236269
D14-Terphenyl (FS)	%	94	94	93		4236269
D5-Nitrobenzene	%	56	77	63		4236269

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCM866	BCM867	BCM868	BCM869	BCM870		
Sampling Date		2015/10/05 09:50	2015/10/05 06:55	2015/10/05 12:38	2015/10/05 13:30	2015/10/05 14:18		
COC Number		532470-01-01	532470-01-01	532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK1	WG-160900764-20151005-JK2	WG-160900764-20151005-JK3	WG-160900764-20151005-JK4	WG-160900764-20151005-JK5	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4219393
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	10	4222150
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222150
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Chloroform	ug/L	<0.20	<0.20	0.86	<0.20	<0.20	0.20	4222150
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222150
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	4222150
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	4222150
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222150
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4222150
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	4222150
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	<10	10	4222150
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCM866	BCM867	BCM868	BCM869	BCM870		
Sampling Date		2015/10/05 09:50	2015/10/05 06:55	2015/10/05 12:38	2015/10/05 13:30	2015/10/05 14:18		
COC Number		532470-01-01	532470-01-01	532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK1	WG-160900764-20151005-JK2	WG-160900764-20151005-JK3	WG-160900764-20151005-JK4	WG-160900764-20151005-JK5	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	86	95	87	90	89		4222150
D4-1,2-Dichloroethane	%	123	111	118	118	118		4222150
D8-Toluene	%	92	98	88	93	93		4222150

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCM871	BCM872	BCM873		
Sampling Date		2015/10/05 14:46	2015/10/05 16:08	2015/10/05 16:49		
COC Number		532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151005-JK6	WG-160900764-20151005-JK7	WG-160900764-20151005-JK8	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	4219393
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	4222150
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	4222150
Bromodichloromethane	ug/L	5.2	<0.50	<0.50	0.50	4222150
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	4222150
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	4222150
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	4222150
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	4222150
Chloroform	ug/L	14	0.30	0.23	0.20	4222150
Dibromochloromethane	ug/L	2.3	<0.50	<0.50	0.50	4222150
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	4222150
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	4222150
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	4222150
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	4222150
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	4222150
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	4222150
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	4222150
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	4222150
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	4222150
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	4222150
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	4222150
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	4222150
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	4222150
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	4222150
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	4222150
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	4222150
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	4222150
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	4222150
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	4222150
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	4222150
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	4222150

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCM871	BCM872	BCM873		
Sampling Date		2015/10/05 14:46	2015/10/05 16:08	2015/10/05 16:49		
COC Number		532470-01-01	532470-01-01	532470-01-01		
	UNITS	**WG-160900764 -20151005-JK6**	**WG-160900764 -20151005-JK7**	**WG-160900764 -20151005-JK8**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	4222150
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	4222150
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	4222150
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	4222150
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	4222150
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	4222150
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	4222150
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	4222150
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	4222150
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	4222150
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	4222150
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	89	90	88		4222150
D4-1,2-Dichloroethane	%	119	120	121		4222150
D8-Toluene	%	91	92	92		4222150

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BCM866
Sample ID: WG-160900764-20151005-JK1
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/20	Milijana Avramovic
Acidity as CaC03 in liquid		4223107	2015/10/08	2015/10/13	Grace Sison
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/15	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221077	N/A	2015/10/07	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225756	N/A	2015/10/10	Abdi Mohamud
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4225661	2015/10/10	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4218506	N/A	2015/10/15	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4222442	2015/10/08	2015/10/08	Arefa Dabhad
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Ewa Pranjic
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4219680	N/A	2015/10/06	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4224046	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Ewa Pranjic
Total Dissolved Solids	BAL	4220751	N/A	2015/10/07	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4222329	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4219483	N/A	2015/10/06	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

Maxxam ID: BCM866 Dup
Sample ID: WG-160900764-20151005-JK1
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225756	N/A	2015/10/10	Abdi Mohamud
Metals Analysis by ICPMS (as received)	ICP/MS	4222442	2015/10/08	2015/10/08	Arefa Dabhad

Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BCM867
Sample ID: WG-160900764-20151005-JK2
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/20	Milijana Avramovic
Acidity as CaC03 in liquid		4223107	2015/10/08	2015/10/13	Grace Sison
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/15	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4221129	N/A	2015/10/07	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221077	N/A	2015/10/07	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225756	N/A	2015/10/10	Abdi Mohamud
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4225661	2015/10/10	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4218506	N/A	2015/10/15	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4222434	2015/10/08	2015/10/09	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228331	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Ewa Pranjic
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4219680	N/A	2015/10/06	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4225030	N/A	2015/10/13	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/08	Sarah Huang
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Ewa Pranjic
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4219483	N/A	2015/10/06	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/10	Manpreet Sarao

Maxxam ID: BCM867 Dup
Sample ID: WG-160900764-20151005-JK2
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/08	Sarah Huang
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BCM868
Sample ID: WG-160900764-20151005-JK3
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4223107	2015/10/08	2015/10/13	Grace Sison
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/15	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4221129	N/A	2015/10/07	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221294	N/A	2015/10/07	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225756	N/A	2015/10/10	Abdi Mohamud
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4225661	2015/10/10	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4218506	N/A	2015/10/15	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228331	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Ewa Pranjic
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4219680	N/A	2015/10/06	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4225030	N/A	2015/10/13	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Ewa Pranjic
Total Dissolved Solids	BAL	4223103	N/A	2015/10/08	Bansari Ray
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4221289	N/A	2015/10/08	Gurpreet Kaur
Turbidity	AT	4219483	N/A	2015/10/06	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

Maxxam ID: BCM868 Dup
Sample ID: WG-160900764-20151005-JK3
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221294	N/A	2015/10/07	Anastasia Hamanov
Metals Analysis by ICPMS (as received)	ICP/MS	4228331	2015/10/14	2015/10/14	Prempal Bhatti

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BCM869
Sample ID: WG-160900764-20151005-JK4
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4223107	2015/10/08	2015/10/13	Grace Sison
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/15	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4221129	N/A	2015/10/07	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221294	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225756	N/A	2015/10/10	Abdi Mohamud
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4225661	2015/10/10	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4218506	N/A	2015/10/15	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4222434	2015/10/08	2015/10/09	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228331	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Ewa Pranjic
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4219680	N/A	2015/10/06	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4225030	N/A	2015/10/13	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Ewa Pranjic
Total Dissolved Solids	BAL	4223103	N/A	2015/10/08	Bansari Ray
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4221289	N/A	2015/10/08	Gurpreet Kaur
Turbidity	AT	4219483	N/A	2015/10/06	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

Maxxam ID: BCM870
Sample ID: WG-160900764-20151005-JK5
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4223107	2015/10/08	2015/10/13	Grace Sison
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BCM870
Sample ID: WG-160900764-20151005-JK5
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/15	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4221129	N/A	2015/10/07	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221077	N/A	2015/10/07	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225756	N/A	2015/10/10	Abdi Mohamud
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4225661	2015/10/10	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4218506	N/A	2015/10/15	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4222442	2015/10/08	2015/10/08	Arefa Dabhad
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Ewa Pranjic
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4219680	N/A	2015/10/06	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4224046	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Ewa Pranjic
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4219483	N/A	2015/10/06	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

Maxxam ID: BCM870 Dup
Sample ID: WG-160900764-20151005-JK5
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	4224046	N/A	2015/10/14	Charles Opoku-Ware

Maxxam ID: BCM871
Sample ID: WG-160900764-20151005-JK6
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/21	Ewa Pranjic

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BCM871
Sample ID: WG-160900764-20151005-JK6
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4223107	2015/10/08	2015/10/13	Grace Sison
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/15	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4221129	N/A	2015/10/07	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221077	N/A	2015/10/07	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225756	N/A	2015/10/10	Abdi Mohamud
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4225661	2015/10/10	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/15	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4222442	2015/10/08	2015/10/08	Arefa Dabhad
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Ewa Pranjic
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4219680	N/A	2015/10/06	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4224046	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Ewa Pranjic
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4219483	N/A	2015/10/06	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

Maxxam ID: BCM872
Sample ID: WG-160900764-20151005-JK7
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4223107	2015/10/08	2015/10/13	Grace Sison
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Ewa Pranjic

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BCM872
Sample ID: WG-160900764-20151005-JK7
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/15	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4221129	N/A	2015/10/07	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221077	N/A	2015/10/07	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225756	N/A	2015/10/10	Abdi Mohamud
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4225661	2015/10/10	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/15	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4222442	2015/10/08	2015/10/08	Arefa Dabhad
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Ewa Pranjic
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4219680	N/A	2015/10/06	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4224046	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Ewa Pranjic
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4219483	N/A	2015/10/06	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

Maxxam ID: BCM872 Dup
Sample ID: WG-160900764-20151005-JK7
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BCM873
Sample ID: WG-160900764-20151005-JK8
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4223107	2015/10/08	2015/10/13	Grace Sison
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/15	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221077	N/A	2015/10/07	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225756	N/A	2015/10/10	Abdi Mohamud
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4225661	2015/10/10	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/15	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4222442	2015/10/08	2015/10/08	Arefa Dabhad
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Ewa Pranjic
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4219680	N/A	2015/10/06	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4224046	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Ewa Pranjic
Total Dissolved Solids	BAL	4220751	N/A	2015/10/07	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4222329	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4219483	N/A	2015/10/06	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

Maxxam ID: BCM873 Dup
Sample ID: WG-160900764-20151005-JK8
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity as CaC03 in liquid		4223107	2015/10/08	2015/10/13	Grace Sison

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	8.0°C
Package 2	5.0°C

Sample BCM866-01 : ABN Analysis: This sample was reworked and similar results were achieved. The majority of the surrogate recoveries were below the lower control limits which is likely due to a matrix effect which may result in an associated low bias. Discretion should be used when reviewing the data. Due to limited amount of sample available for rework, a smaller than usual portion of the sample was used. Detection limits were adjusted accordingly.

Sample BCM867-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

ABN Analysis: Due to limited amount of sample available for analysis, a smaller than usual portion of the sample was used. Detection limits were adjusted accordingly.

Sample BCM868-01 : Total/Dissolved Chromium < Hexavalent Chromium: Both values fall within acceptable RPD limits for duplicates and are likely equivalent. Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCM870-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCM871-01 : Total/Dissolved Chromium < Hexavalent Chromium: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCM872-01 : Total/Dissolved Chromium < Hexavalent Chromium: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCM873-01 : Total/Dissolved Chromium < Hexavalent Chromium: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Results relate only to the items tested.

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4222150	4-Bromofluorobenzene	2015/10/09	98	70 - 130	100	70 - 130	91	%				
4222150	D4-1,2-Dichloroethane	2015/10/09	109	70 - 130	110	70 - 130	117	%				
4222150	D8-Toluene	2015/10/09	112	70 - 130	109	70 - 130	93	%				
4222370	Decachlorobiphenyl	2015/10/08	78	60 - 130	68	60 - 130	61	%				
4225661	o-Terphenyl	2015/10/10	95	60 - 130	95	60 - 130	94	%				
4225756	1,4-Difluorobenzene	2015/10/10	95	70 - 130	98	70 - 130	99	%				
4225756	4-Bromofluorobenzene	2015/10/10	99	70 - 130	103	70 - 130	100	%				
4225756	D10-Ethylbenzene	2015/10/10	98	70 - 130	102	70 - 130	99	%				
4225756	D4-1,2-Dichloroethane	2015/10/10	92	70 - 130	97	70 - 130	98	%				
4236269	2,4,6-Tribromophenol	2015/10/20	83	50 - 130	87	50 - 130	80	%				
4236269	2-Fluorobiphenyl	2015/10/20	68	50 - 130	66	50 - 130	73	%				
4236269	D14-Terphenyl (FS)	2015/10/20	88	50 - 130	92	50 - 130	91	%				
4236269	D5-Nitrobenzene	2015/10/20	74	50 - 130	75	50 - 130	81	%				
4219483	Turbidity	2015/10/07			102	85 - 115	<0.2	NTU	NC	20		
4220707	Total Suspended Solids	2015/10/09					<10	mg/L	NC	25	96	85 - 115
4220711	Total Dissolved Solids	2015/10/09					<10	mg/L	3.4	25	96	90 - 110
4220751	Total Dissolved Solids	2015/10/07					<10	mg/L	0.87	25	99	90 - 110
4220781	Fluoride (F-)	2015/10/07	106	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
4220783	Alkalinity (Total as CaCO3)	2015/10/07			95	85 - 115	<1.0	mg/L	1.4	25		
4220784	Conductivity	2015/10/08			102	85 - 115	<1.0	umho/cm	0.15	25		
4220786	pH	2015/10/07			101	98 - 103			0.41	N/A		
4220806	Nitrate (N)	2015/10/08	NC	80 - 120	104	80 - 120	<0.10	mg/L	0.92	25		
4220806	Nitrite (N)	2015/10/08	106	80 - 120	94	80 - 120	<0.010	mg/L	NC	25		
4220901	Chromium (VI)	2015/10/08	NC	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
4221069	Free Cyanide	2015/10/08	102	80 - 120	102	80 - 120	<2	ug/L	NC	20		
4221074	Free Cyanide	2015/10/13	106	80 - 120	105	80 - 120	<2	ug/L	NC	20		
4221077	Dissolved Organic Carbon	2015/10/07	98	80 - 120	101	80 - 120	<0.20	mg/L	5.6	20		
4221129	Chromium (VI)	2015/10/07	95	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
4221289	Total Suspended Solids	2015/10/08					<10	mg/L	NC	25	97	85 - 115
4221294	Dissolved Organic Carbon	2015/10/07	104	80 - 120	107	80 - 120	<0.20	mg/L	5.8	20		

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4221377	Dissolved Chloride (Cl)	2015/10/08	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.023	20		
4221383	Orthophosphate (P)	2015/10/08	102	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
4221385	Dissolved Sulphate (SO4)	2015/10/08	NC	75 - 125	100	80 - 120	<1.0	mg/L	3.8	20		
4222150	1,1,1,2-Tetrachloroethane	2015/10/09	93	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
4222150	1,1,1-Trichloroethane	2015/10/09	95	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
4222150	1,1,2,2-Tetrachloroethane	2015/10/09	99	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
4222150	1,1,2-Trichloroethane	2015/10/09	99	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4222150	1,1-Dichloroethane	2015/10/09	96	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
4222150	1,1-Dichloroethylene	2015/10/09	106	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
4222150	1,2-Dichlorobenzene	2015/10/09	92	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4222150	1,2-Dichloroethane	2015/10/09	97	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4222150	1,2-Dichloropropane	2015/10/09	93	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4222150	1,3-Dichlorobenzene	2015/10/09	83	70 - 130	84	70 - 130	<0.50	ug/L	NC	30		
4222150	1,4-Dichlorobenzene	2015/10/09	91	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
4222150	Acetone (2-Propanone)	2015/10/09	119	60 - 140	120	60 - 140	<10	ug/L	NC	30		
4222150	Benzene	2015/10/09	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
4222150	Bromodichloromethane	2015/10/09	101	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
4222150	Bromoform	2015/10/09	91	70 - 130	93	70 - 130	<1.0	ug/L	NC	30		
4222150	Bromomethane	2015/10/09	91	60 - 140	91	60 - 140	<0.50	ug/L	NC	30		
4222150	Carbon Tetrachloride	2015/10/09	92	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4222150	Chlorobenzene	2015/10/09	100	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
4222150	Chloroform	2015/10/09	93	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
4222150	cis-1,2-Dichloroethylene	2015/10/09	104	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
4222150	cis-1,3-Dichloropropene	2015/10/09	89	70 - 130	88	70 - 130	<0.30	ug/L	NC	30		
4222150	Dibromochloromethane	2015/10/09	93	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
4222150	Dichlorodifluoromethane (FREON 12)	2015/10/09	97	60 - 140	100	60 - 140	<1.0	ug/L	NC	30		
4222150	Ethylbenzene	2015/10/09	88	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
4222150	Ethylene Dibromide	2015/10/09	91	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
4222150	Hexane	2015/10/09	102	70 - 130	105	70 - 130	<1.0	ug/L	NC	30		
4222150	Methyl Ethyl Ketone (2-Butanone)	2015/10/09	NC	60 - 140	119	60 - 140	<10	ug/L	NC	30		
4222150	Methyl Isobutyl Ketone	2015/10/09	119	70 - 130	109	70 - 130	<5.0	ug/L	NC	30		

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4222150	Methyl t-butyl ether (MTBE)	2015/10/09	87	70 - 130	88	70 - 130	<0.50	ug/L	NC	30		
4222150	Methylene Chloride(Dichloromethane)	2015/10/09	96	70 - 130	97	70 - 130	<2.0	ug/L	NC	30		
4222150	o-Xylene	2015/10/09	82	70 - 130	85	70 - 130	<0.20	ug/L	NC	30		
4222150	p+m-Xylene	2015/10/09	84	70 - 130	76	70 - 130	<0.20	ug/L	NC	30		
4222150	Styrene	2015/10/09	86	70 - 130	89	70 - 130	<0.50	ug/L	NC	30		
4222150	Tetrachloroethylene	2015/10/09	87	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
4222150	Toluene	2015/10/09	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
4222150	Total Xylenes	2015/10/09					<0.20	ug/L	NC	30		
4222150	trans-1,2-Dichloroethylene	2015/10/09	90	70 - 130	93	70 - 130	<0.50	ug/L	NC	30		
4222150	trans-1,3-Dichloropropene	2015/10/09	107	70 - 130	102	70 - 130	<0.40	ug/L	NC	30		
4222150	Trichloroethylene	2015/10/09	86	70 - 130	87	70 - 130	<0.20	ug/L	NC	30		
4222150	Trichlorofluoromethane (FREON 11)	2015/10/09	97	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4222150	Vinyl Chloride	2015/10/09	100	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
4222329	Total Suspended Solids	2015/10/09					<10	mg/L	NC	25	98	85 - 115
4222370	Aroclor 1242	2015/10/08					<0.05	ug/L	NC	30		
4222370	Aroclor 1248	2015/10/08					<0.05	ug/L	NC	30		
4222370	Aroclor 1254	2015/10/08					<0.05	ug/L	NC	30		
4222370	Aroclor 1260	2015/10/08	78	60 - 130	65	60 - 130	<0.05	ug/L	NC	30		
4222370	Total PCB	2015/10/08	78	60 - 130	65	60 - 130	<0.05	ug/L	NC	40		
4222434	Mercury (Hg)	2015/10/09	111	75 - 125	97	80 - 120	<0.00010	mg/L	NC	20		
4222442	. Aluminum (Al)	2015/10/08	104	80 - 120	101	80 - 120	<0.0050	mg/L	NC	20		
4222442	. Antimony (Sb)	2015/10/08	104	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4222442	. Arsenic (As)	2015/10/08	102	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
4222442	. Barium (Ba)	2015/10/08	100	80 - 120	101	80 - 120	<0.0020	mg/L	2.2	20		
4222442	. Beryllium (Be)	2015/10/08	104	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
4222442	. Boron (B)	2015/10/08	102	80 - 120	100	80 - 120	<0.010	mg/L	NC	20		
4222442	. Cadmium (Cd)	2015/10/08	101	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20		
4222442	. Calcium (Ca)	2015/10/08	NC	80 - 120	105	80 - 120	<0.20	mg/L	1.3	20		
4222442	. Chromium (Cr)	2015/10/08	99	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20		
4222442	. Cobalt (Co)	2015/10/08	98	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4222442	. Copper (Cu)	2015/10/08	102	80 - 120	101	80 - 120	<0.0010	mg/L	1.9	20		

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4222442	. Iron (Fe)	2015/10/08	101	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
4222442	. Lead (Pb)	2015/10/08	96	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4222442	. Magnesium (Mg)	2015/10/08	NC	80 - 120	100	80 - 120	<0.050	mg/L	1.5	20		
4222442	. Manganese (Mn)	2015/10/08	100	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20		
4222442	. Molybdenum (Mo)	2015/10/08	105	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4222442	. Nickel (Ni)	2015/10/08	97	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
4222442	. Phosphorus (P)	2015/10/08	111	80 - 120	108	80 - 120	<0.10	mg/L	NC	20		
4222442	. Potassium (K)	2015/10/08	104	80 - 120	102	80 - 120	<0.20	mg/L	0.32	20		
4222442	. Selenium (Se)	2015/10/08	100	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20		
4222442	. Silicon (Si)	2015/10/08	108	80 - 120	104	80 - 120	<0.050	mg/L	1.4	20		
4222442	. Silver (Ag)	2015/10/08	97	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20		
4222442	. Sodium (Na)	2015/10/08	NC	80 - 120	100	80 - 120	<0.10	mg/L	0.51	20		
4222442	. Strontium (Sr)	2015/10/08	NC	80 - 120	99	80 - 120	<0.0010	mg/L	1.2	20		
4222442	. Thallium (Tl)	2015/10/08	96	80 - 120	98	80 - 120	<0.000050	mg/L	NC	20		
4222442	. Titanium (Ti)	2015/10/08	104	80 - 120	101	80 - 120	<0.0050	mg/L	NC	20		
4222442	. Uranium (U)	2015/10/08	97	80 - 120	97	80 - 120	<0.00010	mg/L	8.1	20		
4222442	. Vanadium (V)	2015/10/08	102	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
4222442	. Zinc (Zn)	2015/10/08	98	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
4222442	. Zirconium (Zr)	2015/10/08	109	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20		
4223103	Total Dissolved Solids	2015/10/08					<10	mg/L	4.3	25	98	90 - 110
4223107	Acidity as CaC03	2015/10/13					<10	mg/L	NC	25		
4223923	Mercury (Hg)	2015/10/13	117	75 - 125	109	80 - 120	<0.00010	mg/L	NC	20		
4224046	Total Ammonia-N	2015/10/14	103	80 - 120	102	85 - 115	<0.050	mg/L	NC	20		
4224869	Total Organic Carbon (TOC)	2015/10/09	NC	80 - 120	101	80 - 120	<0.20	mg/L	1.3	20		
4225030	Total Ammonia-N	2015/10/13	98	80 - 120	101	85 - 115	<0.050	mg/L	NC	20		
4225661	F2 (C10-C16 Hydrocarbons)	2015/10/11	100	50 - 130	90	60 - 130	<100	ug/L	NC	30		
4225661	F3 (C16-C34 Hydrocarbons)	2015/10/11	96	50 - 130	91	60 - 130	<200	ug/L	NC	30		
4225661	F4 (C34-C50 Hydrocarbons)	2015/10/11	98	50 - 130	94	60 - 130	<200	ug/L	NC	30		
4225756	F1 (C6-C10) - BTEX	2015/10/10					<25	ug/L	NC	30		
4225756	F1 (C6-C10)	2015/10/10	86	70 - 130	96	70 - 130	<25	ug/L	NC	30		
4228331	. Aluminum (Al)	2015/10/14	101	80 - 120	109	80 - 120	<0.0050	mg/L	NC	20		

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4228331	. Antimony (Sb)	2015/10/14	102	80 - 120	104	80 - 120	<0.00050	mg/L	NC	20		
4228331	. Arsenic (As)	2015/10/14	100	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
4228331	. Barium (Ba)	2015/10/14	97	80 - 120	102	80 - 120	<0.0020	mg/L	3.4	20		
4228331	. Beryllium (Be)	2015/10/14	99	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4228331	. Boron (B)	2015/10/14	96	80 - 120	98	80 - 120	<0.010	mg/L	NC	20		
4228331	. Cadmium (Cd)	2015/10/14	101	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20		
4228331	. Calcium (Ca)	2015/10/14	NC	80 - 120	107	80 - 120	<0.20	mg/L	2.8	20		
4228331	. Chromium (Cr)	2015/10/14	100	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20		
4228331	. Cobalt (Co)	2015/10/14	100	80 - 120	104	80 - 120	<0.00050	mg/L	NC	20		
4228331	. Copper (Cu)	2015/10/14	97	80 - 120	101	80 - 120	<0.0010	mg/L	1.3	20		
4228331	. Iron (Fe)	2015/10/14	103	80 - 120	106	80 - 120	<0.10	mg/L	NC	20		
4228331	. Lead (Pb)	2015/10/14	97	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4228331	. Magnesium (Mg)	2015/10/14	NC	80 - 120	107	80 - 120	<0.050	mg/L	2.0	20		
4228331	. Manganese (Mn)	2015/10/14	103	80 - 120	107	80 - 120	<0.0020	mg/L	NC	20		
4228331	. Molybdenum (Mo)	2015/10/14	105	80 - 120	107	80 - 120	<0.00050	mg/L	NC	20		
4228331	. Nickel (Ni)	2015/10/14	100	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20		
4228331	. Phosphorus (P)	2015/10/14	108	80 - 120	113	80 - 120	<0.10	mg/L	NC	20		
4228331	. Potassium (K)	2015/10/14	103	80 - 120	107	80 - 120	<0.20	mg/L	1.4	20		
4228331	. Selenium (Se)	2015/10/14	96	80 - 120	101	80 - 120	<0.0020	mg/L	NC	20		
4228331	. Silicon (Si)	2015/10/14	102	80 - 120	108	80 - 120	<0.050	mg/L	0.15	20		
4228331	. Silver (Ag)	2015/10/14	99	80 - 120	102	80 - 120	<0.00010	mg/L	NC	20		
4228331	. Sodium (Na)	2015/10/14	103	80 - 120	109	80 - 120	<0.10	mg/L	1.7	20		
4228331	. Strontium (Sr)	2015/10/14	NC	80 - 120	102	80 - 120	<0.0010	mg/L	0.72	20		
4228331	. Thallium (Tl)	2015/10/14	97	80 - 120	98	80 - 120	<0.000050	mg/L	NC	20		
4228331	. Titanium (Ti)	2015/10/14	100	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20		
4228331	. Uranium (U)	2015/10/14	96	80 - 120	98	80 - 120	<0.00010	mg/L	3.7	20		
4228331	. Vanadium (V)	2015/10/14	103	80 - 120	106	80 - 120	<0.00050	mg/L	NC	20		
4228331	. Zinc (Zn)	2015/10/14	98	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20		
4228331	. Zirconium (Zr)	2015/10/14	104	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20		
4236269	1,2,4-Trichlorobenzene	2015/10/20	69	40 - 130	57	40 - 130	<0.1	ug/L	NC	30		
4236269	1-Methylnaphthalene	2015/10/20	79	50 - 130	79	50 - 130	<0.2	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4236269	2,4,5-Trichlorophenol	2015/10/20	82	50 - 130	89	50 - 130	<0.2	ug/L				
4236269	2,4,6-Trichlorophenol	2015/10/20	80	50 - 130	87	50 - 130	<0.2	ug/L	NC	30		
4236269	2,4-Dichlorophenol	2015/10/20	71	50 - 130	80	50 - 130	<0.1	ug/L				
4236269	2,4-Dimethylphenol	2015/10/20	66	30 - 130	63	30 - 130	<0.5	ug/L				
4236269	2,4-Dinitrophenol	2015/10/20	93	30 - 130	70	30 - 130	<2	ug/L				
4236269	2,4-Dinitrotoluene	2015/10/20	86	50 - 130	95	50 - 130	<0.3	ug/L				
4236269	2,6-Dinitrotoluene	2015/10/20	81	50 - 130	90	50 - 130	<0.3	ug/L				
4236269	2-Chlorophenol	2015/10/20	66	50 - 130	72	50 - 130	<0.1	ug/L				
4236269	2-Methylnaphthalene	2015/10/20	73	50 - 130	71	50 - 130	<0.2	ug/L				
4236269	3,3'-Dichlorobenzidine	2015/10/20	63	30 - 130	96	30 - 130	<0.5	ug/L				
4236269	Acenaphthene	2015/10/20	79	50 - 130	83	50 - 130	<0.2	ug/L				
4236269	Acenaphthylene	2015/10/20	76	50 - 130	81	50 - 130	<0.2	ug/L				
4236269	Anthracene	2015/10/20	81	50 - 130	90	50 - 130	<0.05	ug/L				
4236269	Benzo(a)anthracene	2015/10/20	94	50 - 130	101	50 - 130	<0.05	ug/L				
4236269	Benzo(a)pyrene	2015/10/20	92	50 - 130	97	50 - 130	<0.01	ug/L	NC	30		
4236269	Benzo(b/j)fluoranthene	2015/10/20	98	50 - 130	101	50 - 130	<0.05	ug/L				
4236269	Benzo(g,h,i)perylene	2015/10/20	102	50 - 130	110	50 - 130	<0.05	ug/L				
4236269	Benzo(k)fluoranthene	2015/10/20	95	50 - 130	94	50 - 130	<0.05	ug/L				
4236269	Biphenyl	2015/10/20	74	50 - 130	75	50 - 130	<0.1	ug/L				
4236269	Bis(2-chloroethyl)ether	2015/10/20	74	50 - 130	77	50 - 130	<0.5	ug/L				
4236269	Bis(2-chloroisopropyl)ether	2015/10/20	64	50 - 130	67	50 - 130	<0.5	ug/L				
4236269	Bis(2-ethylhexyl)phthalate	2015/10/20	94	50 - 130	100	50 - 130	<1	ug/L	NC	30		
4236269	Chrysene	2015/10/20	93	50 - 130	100	50 - 130	<0.05	ug/L				
4236269	Dibenz(a,h)anthracene	2015/10/20	98	50 - 130	104	50 - 130	<0.1	ug/L				
4236269	Diethyl phthalate	2015/10/20	77	50 - 130	85	50 - 130	<0.1	ug/L				
4236269	Dimethyl phthalate	2015/10/20	82	50 - 130	91	50 - 130	<0.1	ug/L				
4236269	Fluoranthene	2015/10/20	92	50 - 130	99	50 - 130	<0.2	ug/L				
4236269	Fluorene	2015/10/20	80	50 - 130	88	50 - 130	<0.2	ug/L				
4236269	Indeno(1,2,3-cd)pyrene	2015/10/20	99	50 - 130	106	50 - 130	<0.1	ug/L				
4236269	Naphthalene	2015/10/20	72	50 - 130	69	50 - 130	<0.2	ug/L	NC	30		
4236269	p-Chloroaniline	2015/10/20	54	30 - 130	98	30 - 130	<1	ug/L				

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Maxxam Job #: B5K2703
Report Date: 2015/10/21

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4236269	Pentachlorophenol	2015/10/20	73	50 - 130	68	50 - 130	<0.1	ug/L	NC	30		
4236269	Phenanthrene	2015/10/20	82	50 - 130	89	50 - 130	<0.1	ug/L				
4236269	Phenol	2015/10/20	30	30 - 130	35	30 - 130	<0.5	ug/L				
4236269	Pyrene	2015/10/20	96	50 - 130	103	50 - 130	<0.05	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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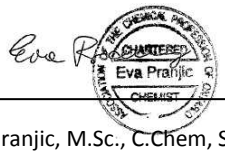
Maxxam Job #: B5K2703
Report Date: 2015/10/21

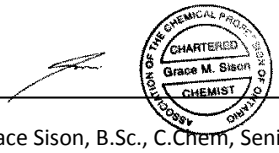
Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist



Grace Sison, B.Sc., C.Chem, Senior Project Manager - Petroleum Division

Sirimathie Aluthwala, Campobello Micro

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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COR FCD-00265 / 3
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Maxxam

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

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COOLER OBSERVATIONS:

MAXXAM JOB#: B5K2703 GK1

COOLER ID	CUSTODY SEAL PRESENT (YES/NO)	CUSTODY SEAL INTACT (YES/NO)	ICE PRESENT (YES/NO)	TEMP 1	TEMP 2	TEMP 3
	✓ YES	✓ YES	✓ YES	4	4	3
	✓ YES	✓ YES	✓ YES	5	3	4
	✓ YES	✓ YES	✓ YES	2	3	3
	✓ YES	✓ YES	✓ YES	4	4	5
	✓ YES	✓ YES	✓ YES	5	5	4
	✓ YES	✓ YES	✓ YES	6	4	4
	✓ YES	✓ YES	✓ YES	3	1	4
	✓ YES	✓ YES	✓ YES	2	1	1
	✓ YES	✓ YES	✓ YES	1	3	3
	✓ YES	✓ YES	✓ YES	0	1	1

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
[signature]	HARWIN GREWAL	2015/10/06	12:50

Maxxam
A Bureau Veritas Group Company

Maxxam Analytics International Corporation o/a Maxxam Analytics
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STANTEC CHAIN OF CUSTODY RECORD

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Page 1 of 6

MICRO

INVOICE INFORMATION:		REPORT INFORMATION(if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6197 Stantec Consulting Ltd.	Company Name:	#18379 Stantec Consulting Ltd	Quotation #:	B48218	Maxxam Job #:	Bottle Order #:
Contact Name:	Accounts Payable	Contact Name:	Report - 1609-00764	Task #:			532470
Address:	49 Frederick St	Address:		Project #:	160900764		
	Kitchener ON N2H 6M7		ON	Profit Centre:		COC #:	Project Manager:
Phone:	(519) 579-4410 Fax: (519) 579-6733	Phone:	Fax: and edd@stantec.com	Site #:	CLARINGTON TS-PRIVATE WELLS	C#532470-01-01	Deepthi Shaji
Email:	Stantec.Accounts.Payable.Invoices@Stantec.com	Email:	aaron.warkentin@stantec.com, brant.gill@stantec.com,	Sampled By:	JK		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558. ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality	
☐ Table ___	☐ PWQO	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT:
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Acidity, CrVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	Reg 153 PHC - F1-F4	Reg 153 PCBs	Reg 153 VOCs	RCAp - Comp (Drinking Water) - No Filter	SVOCs	E.coli, Total Coliform, Background			# of Bottles
1		WG-160900764-201510 05-JK1	OCT 5 2015	0950	WG	None	✓	✓	✓	✓	✓	✓	✓	✓			22
2		WG-160900764-201510 05-JK2		0955			✓	✓	✓	✓	✓	✓	✓	✓			
3		WG-160900764-201510 05-JK3		1238			✓	✓	✓	✓	✓	✓	✓	✓			
4		WG-160900764-201510 05-JK4		1330			✓	✓	✓	✓	✓	✓	✓	✓			
5		WG-160900764-201510 05-JK5		1418			✓	✓	✓	✓	✓	✓	✓	✓			
6		WG-160900764-201510 05-JK6		~~1608~~ 1446 2IC			✓	✓	✓	✓	✓	✓	✓	✓			
7		WG-160900764-201510 05-JK7		1608			✓	✓	✓	✓	✓	✓	✓	✓			
8		WG-160900764-201510 05-JK8		1649			✓	✓	✓	✓	✓	✓	✓	✓			
9		WG-160900764-201510 -															
10		WG-160900764-201510 -															

06-Oct-15 08:30
Deepthi Shaji
B5K2703
GK1 ENV-970
13

REC'D IN PORT HOPE

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
JAMIE KOCH	15/10/05	2056	BRENDA WOODWARD Brenda Woodward	2015/10/06	08:30	
			TARWIN GREWAL	2015/10/06	12:50	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
	8°|8°|8°C	Present	✓	
	5°|5°|5°C	Intact	✓	

7°|7°|7°C 6°|6°|6°C 7°|7°|7°C
relq to ACTR # 308453

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxam Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your C.O.C. #: 532448-01-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/16
Report #: R3722897
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K2885
Received: 2015/10/06, 08:30

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	9	N/A	2015/10/16	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	10	2015/10/14	2015/10/15	CAM SOP-00301	EPA 8270 m
Acidity as CaC03 in liquid (1, 2)	4	2015/10/08	2015/10/14	SLA SOP-00100	APHA SM2310B (Mod)
Alkalinity	4	N/A	2015/10/08	CAM SOP-00448	SM 22 2320 B m
Carbonate, Bicarbonate and Hydroxide	4	N/A	2015/10/14	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	4	N/A	2015/10/14		EPA 8260C m
Chloride by Automated Colourimetry	4	N/A	2015/10/14	CAM SOP-00463	EPA 325.2 m
Conductivity	4	N/A	2015/10/08	CAM SOP-00414	SM 22 2510 m
Chromium (VI) in Water	4	N/A	2015/10/09	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	4	N/A	2015/10/13	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (3)	4	N/A	2015/10/08	CAM SOP-00446	SM 22 5310 B m
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2015/10/09	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2015/10/10	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (4)	4	2015/10/09	2015/10/10	CAM SOP-00316	CCME PHC-CWS m
Fluoride	4	2015/10/07	2015/10/08	CAM SOP-00449	SM 22 4500-F C m
Hardness (calculated as CaCO3)	4	N/A	2015/10/14	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	4	2015/10/08	2015/10/09	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	4	N/A	2015/10/14	CAM SOP-00447	EPA 6020A m
Ion Balance (% Difference)	4	N/A	2015/10/14		
Anion and Cation Sum	4	N/A	2015/10/14		
Total Ammonia-N	4	N/A	2015/10/10	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (5)	4	N/A	2015/10/09	CAM SOP-00440	SM 22 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	4	2015/10/08	2015/10/09	CAM SOP-00309	EPA 8082A m
pH	4	N/A	2015/10/08	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	4	N/A	2015/10/09	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	4	N/A	2015/10/14		
Sat. pH and Langelier Index (@ 4C)	4	N/A	2015/10/14		
Sulphate by Automated Colourimetry	4	N/A	2015/10/09	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	4	N/A	2015/10/14		

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Your Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your C.O.C. #: 532448-01-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/16
Report #: R3722897
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K2885
Received: 2015/10/06, 08:30

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Total Dissolved Solids	4	N/A	2015/10/08	CAM SOP-00428	SM 22 2540C m
Total Organic Carbon (TOC) (6)	4	N/A	2015/10/09	CAM SOP-00446	SM 22 5310B m
Total Suspended Solids	4	N/A	2015/10/08	CAM SOP-00428	SM 22 2540D m
Turbidity	4	N/A	2015/10/07	CAM SOP-00417	SM 22 2130 B m
Volatile Organic Compounds in Water	4	N/A	2015/10/09	CAM SOP000228	EPA 8260C m

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

Maxxam Analytics is accredited for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Sladeview Petrochemical
(2) Sample(s) analyzed using methodologies that have not been subjected to Maxxam's standard validation process for the submitted matrix and is not an Accredited method. Analysis performed with client consent, however results should be viewed with discretion
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
(5) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(6) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

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Your Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your C.O.C. #: 532448-01-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/16
Report #: R3722897
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K2885
Received: 2015/10/06, 08:30

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Deepthi Shaji, Project Manager
Email: dshaji@maxxam.ca
Phone# (905)817-5700 Ext:5807

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCN647			BCN649	BCN649		
Sampling Date		2015/10/05 13:51			2015/10/05 14:11	2015/10/05 14:11		
COC Number		532448-01-01			532448-01-01	532448-01-01		
Received Temperature (°C)								
	UNITS	WG-160900764-20151005-RD01	RDL	QC Batch	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	7.21	N/A	4221198	19.3		N/A	4221198
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	230	1.0	4221199	170		1.0	4221199
Calculated TDS	mg/L	410	1.0	4220266	1300		1.0	4220266
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.4	1.0	4221199	<1.0		1.0	4221199
Cation Sum	me/L	7.61	N/A	4221198	21.0		N/A	4221198
Hardness (CaCO3)	mg/L	330	1.0	4220719	600		1.0	4220719
Ion Balance (% Difference)	%	2.69	N/A	4221202	4.31		N/A	4221202
Langelier Index (@ 20C)	N/A	0.537		4221200	0.415			4221200
Langelier Index (@ 4C)	N/A	0.288		4221201	0.171			4221201
Saturation pH (@ 20C)	N/A	7.27		4221200	7.19			4221200
Saturation pH (@ 4C)	N/A	7.52		4221201	7.44			4221201
Inorganics								
Total Ammonia-N	mg/L	<0.050	0.050	4224206	<0.050		0.050	4224206
Conductivity	umho/cm	680	1.0	4221718	1800	1800	1.0	4221718
Dissolved Organic Carbon	mg/L	0.89	0.20	4223255	1.6		0.20	4223255
Orthophosphate (P)	mg/L	<0.010	0.010	4223178	<0.010		0.010	4223178
pH	pH	7.81	N/A	4221720	7.61	7.62	N/A	4221720
Dissolved Sulphate (SO4)	mg/L	99	1.0	4223177	730		5.0	4223177
Alkalinity (Total as CaCO3)	mg/L	230	1.0	4221717	170	170	1.0	4221717
Dissolved Chloride (Cl)	mg/L	15	1.0	4223173	24		1.0	4223173
Nitrite (N)	mg/L	0.124	0.010	4222885	0.047		0.010	4222881
Nitrate (N)	mg/L	2.13	0.10	4222885	0.65		0.10	4222881
Nitrate + Nitrite (N)	mg/L	2.25	0.10	4222885	0.70		0.10	4222881
Metals								
Dissolved Aluminum (Al)	mg/L	<0.0050	0.0050	4227153	<0.0050		0.0050	4227153
Dissolved Antimony (Sb)	mg/L	<0.00050	0.00050	4227153	<0.00050		0.00050	4227153
Dissolved Arsenic (As)	mg/L	<0.0010	0.0010	4227153	<0.0010		0.0010	4227153
Dissolved Barium (Ba)	mg/L	0.057	0.0020	4227153	0.025		0.0020	4227153
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	4227153	<0.00050		0.00050	4227153
Dissolved Boron (B)	mg/L	0.069	0.010	4227153	0.31		0.010	4227153

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCN647			BCN649	BCN649		
Sampling Date		2015/10/05 13:51			2015/10/05 14:11	2015/10/05 14:11		
COC Number		532448-01-01			532448-01-01	532448-01-01		
Received Temperature (°C)								
	UNITS	WG-160900764-20151005-RD01	RDL	QC Batch	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02 Lab-Dup	RDL	QC Batch
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	4227153	<0.00010		0.00010	4227153
Dissolved Calcium (Ca)	mg/L	67	0.20	4227153	150		0.20	4227153
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	4227153	<0.0050		0.0050	4227153
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	4227153	<0.00050		0.00050	4227153
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	4227153	0.0011		0.0010	4227153
Dissolved Iron (Fe)	mg/L	<0.10	0.10	4227153	<0.10		0.10	4227153
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	4227153	<0.00050		0.00050	4227153
Dissolved Magnesium (Mg)	mg/L	39	0.050	4227153	55		0.050	4227153
Dissolved Manganese (Mn)	mg/L	0.015	0.0020	4227153	0.018		0.0020	4227153
Dissolved Molybdenum (Mo)	mg/L	0.0089	0.00050	4227153	0.056		0.00050	4227153
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	4227153	0.0015		0.0010	4227153
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	4227153	<0.10		0.10	4227153
Dissolved Potassium (K)	mg/L	5.7	0.20	4227153	7.5		0.20	4227153
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	4227153	<0.0020		0.0020	4227153
Dissolved Silicon (Si)	mg/L	6.0	0.050	4227153	4.3		0.050	4227153
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	4227153	<0.00010		0.00010	4227153
Dissolved Sodium (Na)	mg/L	22	0.10	4227153	200		0.10	4227153
Dissolved Strontium (Sr)	mg/L	0.74	0.0010	4227153	2.2		0.0010	4227153
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	4227153	<0.000050		0.000050	4227153
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	4227153	<0.0050		0.0050	4227153
Dissolved Uranium (U)	mg/L	0.0037	0.00010	4227153	0.0060		0.00010	4227153
Dissolved Vanadium (V)	mg/L	0.00067	0.00050	4227153	<0.00050		0.00050	4227153
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	4227153	<0.0050		0.0050	4227153
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	4227153	<0.0010		0.0010	4227153

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCN652	BCN652		BCN654	BCN654		
Sampling Date		2015/10/05 16:00	2015/10/05 16:00		2015/10/05 16:20	2015/10/05 16:20		
COC Number		532448-01-01	532448-01-01		532448-01-01	532448-01-01		
Received Temperature (°C)								
	UNITS	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03 Lab-Dup	QC Batch	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	10.7		4221198	6.05		N/A	4221198
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	320		4221199	190		1.0	4221199
Calculated TDS	mg/L	610		4220266	340		1.0	4220266
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0		4221199	<1.0		1.0	4221199
Cation Sum	me/L	10.9		4221198	5.27		N/A	4221198
Hardness (CaCO3)	mg/L	510		4220719	82		1.0	4220719
Ion Balance (% Difference)	%	0.790		4221202	6.85		N/A	4221202
Langelier Index (@ 20C)	N/A	0.620		4221200	-0.168			4221200
Langelier Index (@ 4C)	N/A	0.373		4221201	-0.417			4221201
Saturation pH (@ 20C)	N/A	6.74		4221200	7.86			4221200
Saturation pH (@ 4C)	N/A	6.99		4221201	8.11			4221201
Inorganics								
Total Ammonia-N	mg/L	<0.050		4224206	<0.050	<0.050	0.050	4224206
Conductivity	umho/cm	950		4221718	490		1.0	4221718
Dissolved Organic Carbon	mg/L	2.0		4223255	10		0.20	4223255
Orthophosphate (P)	mg/L	<0.010		4223178	<0.010		0.010	4223178
pH	pH	7.36		4221720	7.69		N/A	4221720
Dissolved Sulphate (SO4)	mg/L	180		4223177	93		1.0	4223177
Alkalinity (Total as CaCO3)	mg/L	320		4221717	190		1.0	4221717
Dissolved Chloride (Cl)	mg/L	17		4223173	7.5		1.0	4223173
Nitrite (N)	mg/L	<0.010		4222881	<0.010		0.010	4222885
Nitrate (N)	mg/L	0.16		4222881	<0.10		0.10	4222885
Nitrate + Nitrite (N)	mg/L	0.16		4222881	<0.10		0.10	4222885
Metals								
Dissolved Aluminum (Al)	mg/L	<0.0050	<0.0050	4227153	0.056		0.0050	4227153
Dissolved Antimony (Sb)	mg/L	<0.00050	<0.00050	4227153	0.0010		0.00050	4227153
Dissolved Arsenic (As)	mg/L	<0.0010	<0.0010	4227153	0.0035		0.0010	4227153
Dissolved Barium (Ba)	mg/L	0.093	0.093	4227153	0.054		0.0020	4227153
Dissolved Beryllium (Be)	mg/L	<0.00050	<0.00050	4227153	<0.00050		0.00050	4227153
Dissolved Boron (B)	mg/L	0.046	0.046	4227153	0.21		0.010	4227153
Dissolved Cadmium (Cd)	mg/L	<0.00010	<0.00010	4227153	<0.00010		0.00010	4227153

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCN652	BCN652		BCN654	BCN654		
Sampling Date		2015/10/05 16:00	2015/10/05 16:00		2015/10/05 16:20	2015/10/05 16:20		
COC Number		532448-01-01	532448-01-01		532448-01-01	532448-01-01		
Received Temperature (°C)								
	UNITS	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03 Lab-Dup	QC Batch	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04 Lab-Dup	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	180	180	4227153	19		0.20	4227153
Dissolved Chromium (Cr)	mg/L	<0.0050	<0.0050	4227153	<0.0050		0.0050	4227153
Dissolved Cobalt (Co)	mg/L	<0.00050	<0.00050	4227153	<0.00050		0.00050	4227153
Dissolved Copper (Cu)	mg/L	<0.0010	<0.0010	4227153	<0.0010		0.0010	4227153
Dissolved Iron (Fe)	mg/L	<0.10	<0.10	4227153	<0.10		0.10	4227153
Dissolved Lead (Pb)	mg/L	<0.00050	<0.00050	4227153	<0.00050		0.00050	4227153
Dissolved Magnesium (Mg)	mg/L	17	18	4227153	8.2		0.050	4227153
Dissolved Manganese (Mn)	mg/L	<0.0020	<0.0020	4227153	0.029		0.0020	4227153
Dissolved Molybdenum (Mo)	mg/L	<0.00050	<0.00050	4227153	0.056		0.00050	4227153
Dissolved Nickel (Ni)	mg/L	<0.0010	<0.0010	4227153	0.0015		0.0010	4227153
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	4227153	<0.10		0.10	4227153
Dissolved Potassium (K)	mg/L	1.2	1.2	4227153	1.6		0.20	4227153
Dissolved Selenium (Se)	mg/L	<0.0020	<0.0020	4227153	<0.0020		0.0020	4227153
Dissolved Silicon (Si)	mg/L	5.5	5.6	4227153	3.6		0.050	4227153
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	4227153	<0.00010		0.00010	4227153
Dissolved Sodium (Na)	mg/L	14	14	4227153	83		0.10	4227153
Dissolved Strontium (Sr)	mg/L	0.48	0.48	4227153	0.46		0.0010	4227153
Dissolved Thallium (Tl)	mg/L	<0.000050	<0.000050	4227153	<0.000050		0.000050	4227153
Dissolved Titanium (Ti)	mg/L	<0.0050	<0.0050	4227153	<0.0050		0.0050	4227153
Dissolved Uranium (U)	mg/L	0.0011	0.0010	4227153	0.0020		0.00010	4227153
Dissolved Vanadium (V)	mg/L	<0.00050	<0.00050	4227153	0.00067		0.00050	4227153
Dissolved Zinc (Zn)	mg/L	<0.0050	<0.0050	4227153	<0.0050		0.0050	4227153
Dissolved Zirconium (Zr)	mg/L	<0.0010	<0.0010	4227153	<0.0010		0.0010	4227153

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		BCN647	BCN647	BCN649	BCN649	BCN652		
Sampling Date		2015/10/05 13:51	2015/10/05 13:51	2015/10/05 14:11	2015/10/05 14:11	2015/10/05 16:00		
COC Number		532448-01-01	532448-01-01	532448-01-01	532448-01-01	532448-01-01		
Received Temperature (°C)								
	UNITS	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01 Lab-Dup	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02 Lab-Dup	WG-160900764-20151005-RD03	RDL	QC Batch
Inorganics								
Acidity as CaC03	mg/L	16		13		74	10	4223112
Total Dissolved Solids	mg/L	436		1410		634	10	4223103
Fluoride (F-)	mg/L	0.30		0.29	0.30	0.12	0.10	4221719
Free Cyanide	ug/L	<2		<2		<2	2	4221074
Total Organic Carbon (TOC)	mg/L	0.87		2.0		2.0	0.20	4224869
Total Suspended Solids	mg/L	<10		36		<10	10	4222047
Turbidity	NTU	2.6	2.3	23		2.7	0.2	4221643

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		BCN654	BCN654		
Sampling Date		2015/10/05 16:20	2015/10/05 16:20		
COC Number		532448-01-01	532448-01-01		
Received Temperature (°C)					
	UNITS	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04 Lab-Dup	RDL	QC Batch
Inorganics					
Acidity as CaC03	mg/L	<10	<10	10	4223112
Total Dissolved Solids	mg/L	330		10	4223103
Fluoride (F-)	mg/L	0.80		0.10	4221719
Free Cyanide	ug/L	<2		2	4221074
Total Organic Carbon (TOC)	mg/L	9.4		0.20	4224869
Total Suspended Solids	mg/L	14		10	4222047
Turbidity	NTU	490		0.2	4221643

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K2885
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		BCN647	BCN649		BCN652	BCN654		
Sampling Date		2015/10/05 13:51	2015/10/05 14:11		2015/10/05 16:00	2015/10/05 16:20		
COC Number		532448-01-01	532448-01-01		532448-01-01	532448-01-01		
Received Temperature (°C)								
	UNITS	WG-160900764-20151005-RD01	WG-160900764-20151005-RD02	QC Batch	WG-160900764-20151005-RD03	WG-160900764-20151005-RD04	RDL	QC Batch
Metals								
Chromium (VI)	ug/L	<0.50	<0.50	4223565	<0.50	<0.50	0.50	4223915
Mercury (Hg)	mg/L	<0.00010	<0.00010	4222187	<0.00010	<0.00010	0.00010	4222187

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K2885
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

O.REG 153 PCBS (WATER)

Maxxam ID		BCN647	BCN649	BCN652	BCN654		
Sampling Date		2015/10/05 13:51	2015/10/05 14:11	2015/10/05 16:00	2015/10/05 16:20		
COC Number		532448-01-01	532448-01-01	532448-01-01	532448-01-01		
Received Temperature (°C)							
	UNITS	WG-160900764-20151005-RD01	WG-160900764-20151005-RD02	WG-160900764-20151005-RD03	WG-160900764-20151005-RD04	RDL	QC Batch
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4222370
Surrogate Recovery (%)							
Decachlorobiphenyl	%	78	64	69	68		4222370

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B5K2885
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Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCN647	BCN649	BCN652	BCN654		
Sampling Date		2015/10/05 13:51	2015/10/05 14:11	2015/10/05 16:00	2015/10/05 16:20		
COC Number		532448-01-01	532448-01-01	532448-01-01	532448-01-01		
Received Temperature (°C)							
	UNITS	WG-160900764-20151005-RD01	WG-160900764-20151005-RD02	WG-160900764-20151005-RD03	WG-160900764-20151005-RD04	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4224045
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4224045
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4224045
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4224045
p+m-Xylene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	4224045
Total Xylenes	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	4224045
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	4224045
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	4224045
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	4224525
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	4224525
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	4224525
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		4224525
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	103	102	103	102		4224045
4-Bromofluorobenzene	%	98	98	100	98		4224045
D10-Ethylbenzene	%	107	107	106	115		4224045
D4-1,2-Dichloroethane	%	96	95	99	99		4224045
o-Terphenyl	%	98	97	97	97		4224525

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCN647	BCN648	BCN649	BCN649		
Sampling Date		2015/10/05 13:51	2015/10/05 13:51	2015/10/05 14:11	2015/10/05 14:11		
COC Number		532448-01-01	532448-01-01	532448-01-01	532448-01-01		
Received Temperature (°C)							
	UNITS	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02 Lab-Dup	RDL	QC Batch
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4227862
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4227862
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4227862
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4227862
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4227862
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4227862
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	4227862
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	4227862
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	4227862
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4227862
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4227862
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4227862
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4227862
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4227862
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4227862
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4227862
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	4227862
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4227862
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4227862
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4227862
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4227862
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4227862
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4227862
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	1	<1	1	4227862
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4227862
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4227862
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4227862
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4227862
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4227862
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4227862
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCN647	BCN648	BCN649	BCN649		
Sampling Date		2015/10/05 13:51	2015/10/05 13:51	2015/10/05 14:11	2015/10/05 14:11		
COC Number		532448-01-01	532448-01-01	532448-01-01	532448-01-01		
Received Temperature (°C)							
	UNITS	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02 Lab-Dup	RDL	QC Batch
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4227862
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	4227862
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4227862
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4227862
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4227862
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4227862
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28		0.28	4220681
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	75	73	83	77		4227862
2-Fluorobiphenyl	%	67	45 (1)	59	49 (1)		4227862
D14-Terphenyl (FS)	%	102	20 (1)	105	102		4227862
D5-Nitrobenzene	%	67	51	58	50		4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCN651	BCN652	BCN653		
Sampling Date		2015/10/05 14:11	2015/10/05 16:00	2015/10/05 16:00		
COC Number		532448-01-01	532448-01-01	532448-01-01		
Received Temperature (°C)						
	UNITS	WG-160900764-20151005-RD02A	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03A	RDL	QC Batch
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	4227862
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	4227862
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	4227862
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	4227862
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	4227862
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	4227862
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	4227862
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	4227862
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	4227862
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	4227862
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	4227862
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	4227862
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	4227862
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	4227862
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	4227862
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	4227862
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	4227862
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	4227862
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	4227862
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	4227862
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	4227862
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	4227862
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	4227862
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	4227862
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	4227862
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	4227862
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	4227862
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	4227862
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	4227862
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	4227862
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	0.1	4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCN651	BCN652	BCN653		
Sampling Date		2015/10/05 14:11	2015/10/05 16:00	2015/10/05 16:00		
COC Number		532448-01-01	532448-01-01	532448-01-01		
Received Temperature (°C)						
	UNITS	WG-160900764-20151005-RD02A	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03A	RDL	QC Batch
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	4227862
p-Chloroaniline	ug/L	<1	<1	<1	1	4227862
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	4227862
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	4227862
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	4227862
Pyrene	ug/L	<0.05	<0.05	<0.05	0.05	4227862
1,2-Dichlorobenzene	ug/L	<0.5			0.5	4227862
1,3-Dichlorobenzene	ug/L	<0.5			0.5	4227862
1,4-Dichlorobenzene	ug/L	<0.5			0.5	4227862
2,3,4,6 + 2,3,4,5-Tetrachlorophenol	ug/L	<1			1	4227862
2,3,4-Trichlorophenol	ug/L	<0.5			0.5	4227862
2,3,5,6-Tetrachlorophenol	ug/L	<0.5			0.5	4227862
2,3,6-Trichlorophenol	ug/L	<0.5			0.5	4227862
3,4,5-Trichlorophenol	ug/L	<0.5			0.5	4227862
Acridine	ug/L	<2			2	4227862
Benzo(e)pyrene	ug/L	<0.05			0.05	4227862
Hexachlorobenzene	ug/L	<0.1			0.1	4227862
Hexachlorobutadiene	ug/L	<0.1			0.1	4227862
Hexachloroethane	ug/L	<0.2			0.2	4227862
Perylene	ug/L	<0.05			0.05	4227862
Quinoline	ug/L	<2			2	4227862
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	0.28	4220681
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%		74	73		4227862
2-Fluorobiphenyl	%		59	52		4227862
D14-Terphenyl (FS)	%		103	23 (1)		4227862
D5-Nitrobenzene	%		61	54		4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCN654	BCN655	BCT190		BCT191		
Sampling Date		2015/10/05 16:20	2015/10/05 16:20	2015/10/05		2015/10/05		
COC Number		532448-01-01	532448-01-01	532448-01-01		532448-01-01		
Received Temperature (°C)								
	UNITS	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	41	1	4227862
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	68	1	4227862
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	87	1	4227862
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	83	1	4227862
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	73	1	4227862
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	61	1	4227862
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	3 (1)	1	4227862
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	85	1	4227862
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	82	1	4227862
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	68	1	4227862
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	61	1	4227862
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	94	1	4227862
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	75	1	4227862
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	75	1	4227862
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	50 (1)	1	4227862
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	26 (1)	1	4227862
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	18 (1)	1	4227862
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	24 (1)	1	4227862
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	12 (1)	1	4227862
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	21 (1)	1	4227862
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	68	1	4227862
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	75	1	4227862
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	64	1	4227862
Bis(2-ethylhexyl)phthalate	ug/L	2	<1	<1	1	41 (1)	1	4227862
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	21 (1)	1	4227862
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	13 (1)	1	4227862
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	82	1	4227862
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	86	1	4227862
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	58	1	4227862
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	77	1	4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCN654	BCN655	BCT190		BCT191		
Sampling Date		2015/10/05 16:20	2015/10/05 16:20	2015/10/05		2015/10/05		
COC Number		532448-01-01	532448-01-01	532448-01-01		532448-01-01		
Received Temperature (°C)								
	UNITS	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	0.1	13 (1)	1	4227862
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	65	1	4227862
p-Chloroaniline	ug/L	<1	<1	<1	1	92	1	4227862
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	15 (1)	1	4227862
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	72	1	4227862
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	32	1	4227862
Pyrene	ug/L	0.10	<0.05	<0.05	0.05	60	1	4227862
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	0.28			4220681
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	59	82	76		86		4227862
2-Fluorobiphenyl	%	66	45 (1)	55		56		4227862
D14-Terphenyl (FS)	%	102	14 (1)	24 (1)		34 (1)		4227862
D5-Nitrobenzene	%	64	51	62		74		4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCN647	BCN649	BCN652	BCN654		
Sampling Date		2015/10/05 13:51	2015/10/05 14:11	2015/10/05 16:00	2015/10/05 16:20		
COC Number		532448-01-01	532448-01-01	532448-01-01	532448-01-01		
Received Temperature (°C)							
	UNITS	WG-160900764-20151005-RD01	WG-160900764-20151005-RD02	WG-160900764-20151005-RD03	WG-160900764-20151005-RD04	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4221172
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	4222150
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	4222150
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	4222150
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	0.30	4222150
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	4222150
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	4222150
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	4222150
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	4222150
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	10	4222150
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCN647	BCN649	BCN652	BCN654		
Sampling Date		2015/10/05 13:51	2015/10/05 14:11	2015/10/05 16:00	2015/10/05 16:20		
COC Number		532448-01-01	532448-01-01	532448-01-01	532448-01-01		
Received Temperature (°C)							
	UNITS	WG-160900764-20151005-RD01	WG-160900764-20151005-RD02	WG-160900764-20151005-RD03	WG-160900764-20151005-RD04	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4222150
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4222150
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	87	88	88	87		4222150
D4-1,2-Dichloroethane	%	119	121	123	121		4222150
D8-Toluene	%	89	92	92	92		4222150

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCN647
Sample ID: WG-160900764-20151005-RD01
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4220681	N/A	2015/10/16	Cristina Carriere
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223112	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4221717	N/A	2015/10/08	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4221199	N/A	2015/10/14	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4221172	N/A	2015/10/14	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4223173	N/A	2015/10/14	Deonarine Ramnarine
Conductivity	AT	4221718	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4223565	N/A	2015/10/09	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4223255	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4224045	N/A	2015/10/09	Wenhui (Susie) Shi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4224525	2015/10/09	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4221719	2015/10/07	2015/10/08	Surinder Rai
Hardness (calculated as CaCO3)		4220719	N/A	2015/10/14	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4222187	2015/10/08	2015/10/09	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4227153	N/A	2015/10/14	John Bowman
Ion Balance (% Difference)	CALC	4221202	N/A	2015/10/14	Ewa Pranjic
Anion and Cation Sum	CALC	4221198	N/A	2015/10/14	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4224206	N/A	2015/10/10	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4222885	N/A	2015/10/09	Sarabjit Raina
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4221720	N/A	2015/10/08	Surinder Rai
Orthophosphate	KONE	4223178	N/A	2015/10/09	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4221200	N/A	2015/10/14	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4221201	N/A	2015/10/14	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4223177	N/A	2015/10/09	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4220266	N/A	2015/10/14	Ewa Pranjic
Total Dissolved Solids	BAL	4223103	N/A	2015/10/08	Bansari Ray
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4222047	N/A	2015/10/08	Lu Wang(Alice)
Turbidity	AT	4221643	N/A	2015/10/07	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

Maxxam ID: BCN647 Dup
Sample ID: WG-160900764-20151005-RD01
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Turbidity	AT	4221643	N/A	2015/10/07	Lemeneh Addis

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCN648
Sample ID: WG-160900764-20151005-RD01A
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4220681	N/A	2015/10/16	Cristina Carriere
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCN649
Sample ID: WG-160900764-20151005-RD02
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4220681	N/A	2015/10/16	Cristina Carriere
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223112	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4221717	N/A	2015/10/08	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4221199	N/A	2015/10/14	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4221172	N/A	2015/10/14	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4223173	N/A	2015/10/14	Deonarine Ramnarine
Conductivity	AT	4221718	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4223565	N/A	2015/10/09	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4223255	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4224045	N/A	2015/10/09	Wenhui (Susie) Shi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4224525	2015/10/09	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4221719	2015/10/07	2015/10/08	Surinder Rai
Hardness (calculated as CaCO3)		4220719	N/A	2015/10/14	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4222187	2015/10/08	2015/10/09	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4227153	N/A	2015/10/14	John Bowman
Ion Balance (% Difference)	CALC	4221202	N/A	2015/10/14	Ewa Pranjic
Anion and Cation Sum	CALC	4221198	N/A	2015/10/14	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4224206	N/A	2015/10/10	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4222881	N/A	2015/10/09	Sarabjit Raina
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4221720	N/A	2015/10/08	Surinder Rai
Orthophosphate	KONE	4223178	N/A	2015/10/09	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4221200	N/A	2015/10/14	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4221201	N/A	2015/10/14	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4223177	N/A	2015/10/09	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4220266	N/A	2015/10/14	Ewa Pranjic
Total Dissolved Solids	BAL	4223103	N/A	2015/10/08	Bansari Ray
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4222047	N/A	2015/10/08	Lu Wang(Alice)
Turbidity	AT	4221643	N/A	2015/10/07	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCN649 Dup
Sample ID: WG-160900764-20151005-RD02
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic
Alkalinity	AT	4221717	N/A	2015/10/08	Surinder Rai
Conductivity	AT	4221718	N/A	2015/10/08	Surinder Rai
Fluoride	ISE	4221719	2015/10/07	2015/10/08	Surinder Rai
pH	AT	4221720	N/A	2015/10/08	Surinder Rai

Maxxam ID: BCN651
Sample ID: WG-160900764-20151005-RD02A
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4220681	N/A	2015/10/16	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCN652
Sample ID: WG-160900764-20151005-RD03
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4220681	N/A	2015/10/16	Cristina Carriere
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223112	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4221717	N/A	2015/10/08	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4221199	N/A	2015/10/14	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4221172	N/A	2015/10/14	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4223173	N/A	2015/10/14	Deonarine Ramnarine
Conductivity	AT	4221718	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4223915	N/A	2015/10/09	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4223255	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4224045	N/A	2015/10/10	Wenhui (Susie) Shi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4224525	2015/10/09	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4221719	2015/10/07	2015/10/08	Surinder Rai
Hardness (calculated as CaCO3)		4220719	N/A	2015/10/14	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4222187	2015/10/08	2015/10/09	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4227153	N/A	2015/10/14	John Bowman
Ion Balance (% Difference)	CALC	4221202	N/A	2015/10/14	Ewa Pranjic
Anion and Cation Sum	CALC	4221198	N/A	2015/10/14	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4224206	N/A	2015/10/10	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4222881	N/A	2015/10/09	Sarabjit Raina
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4221720	N/A	2015/10/08	Surinder Rai
Orthophosphate	KONE	4223178	N/A	2015/10/09	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4221200	N/A	2015/10/14	Ewa Pranjic

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCN652 **Collected:** 2015/10/05
Sample ID: WG-160900764-20151005-RD03 **Shipped:**
Matrix: Water **Received:** 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sat. pH and Langelier Index (@ 4C)	CALC	4221201	N/A	2015/10/14	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4223177	N/A	2015/10/09	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4220266	N/A	2015/10/14	Ewa Pranjic
Total Dissolved Solids	BAL	4223103	N/A	2015/10/08	Bansari Ray
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4222047	N/A	2015/10/08	Lu Wang(Alice)
Turbidity	AT	4221643	N/A	2015/10/07	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

Maxxam ID: BCN652 Dup **Collected:** 2015/10/05
Sample ID: WG-160900764-20151005-RD03 **Shipped:**
Matrix: Water **Received:** 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	4227153	N/A	2015/10/14	John Bowman

Maxxam ID: BCN653 **Collected:** 2015/10/05
Sample ID: WG-160900764-20151005-RD03A **Shipped:**
Matrix: Water **Received:** 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4220681	N/A	2015/10/16	Cristina Carriere
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCN654 **Collected:** 2015/10/05
Sample ID: WG-160900764-20151005-RD04 **Shipped:**
Matrix: Water **Received:** 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4220681	N/A	2015/10/16	Cristina Carriere
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223112	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4221717	N/A	2015/10/08	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4221199	N/A	2015/10/14	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4221172	N/A	2015/10/14	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4223173	N/A	2015/10/14	Deonarine Ramnarine
Conductivity	AT	4221718	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4223915	N/A	2015/10/09	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4223255	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4224045	N/A	2015/10/10	Wenhui (Susie) Shi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4224525	2015/10/09	2015/10/10	Zhiyue (Frank) Zhu
Fluoride	ISE	4221719	2015/10/07	2015/10/08	Surinder Rai
Hardness (calculated as CaCO3)		4220719	N/A	2015/10/14	Ewa Pranjic

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCN654
Sample ID: WG-160900764-20151005-RD04
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	4222187	2015/10/08	2015/10/09	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4227153	N/A	2015/10/14	John Bowman
Ion Balance (% Difference)	CALC	4221202	N/A	2015/10/14	Ewa Pranjic
Anion and Cation Sum	CALC	4221198	N/A	2015/10/14	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4224206	N/A	2015/10/10	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4222885	N/A	2015/10/09	Sarabjit Raina
Polychlorinated Biphenyl in Water	GC/ECD	4222370	2015/10/08	2015/10/09	Sarah Huang
pH	AT	4221720	N/A	2015/10/08	Surinder Rai
Orthophosphate	KONE	4223178	N/A	2015/10/09	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4221200	N/A	2015/10/14	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4221201	N/A	2015/10/14	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4223177	N/A	2015/10/09	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4220266	N/A	2015/10/14	Ewa Pranjic
Total Dissolved Solids	BAL	4223103	N/A	2015/10/08	Bansari Ray
Total Organic Carbon (TOC)	TOCV/NDIR	4224869	N/A	2015/10/09	Anastasia Hamanov
Total Suspended Solids	BAL	4222047	N/A	2015/10/08	Lu Wang(Alice)
Turbidity	AT	4221643	N/A	2015/10/07	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222150	N/A	2015/10/09	Manpreet Sarao

Maxxam ID: BCN654 Dup
Sample ID: WG-160900764-20151005-RD04
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity as CaC03 in liquid		4223112	2015/10/08	2015/10/14	Mary Jo Paz
Total Ammonia-N	LACH/NH4	4224206	N/A	2015/10/10	Charles Opoku-Ware

Maxxam ID: BCN655
Sample ID: WG-160900764-20151005-RD04A
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4220681	N/A	2015/10/16	Cristina Carriere
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCT190
Sample ID: FILTERED BLANK
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4220681	N/A	2015/10/16	Cristina Carriere
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

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Maxxam Job #: B5K2885
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCT191
Sample ID: FILTERED SPIKE
Matrix: Water

Collected: 2015/10/05
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

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Maxxam Job #: B5K2885
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.7°C
Package 2	4.0°C
Package 3	2.7°C
Package 4	4.3°C
Package 5	4.7°C
Package 6	4.7°C
Package 7	2.7°C
Package 8	1.3°C
Package 9	2.3°C
Package 10	0.7°C

ABN Analysis: Samples were filtered and surrogate and spike solutions were added pior to filtration.

Sample BCN647-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCN654-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCT191-01 : ABN Analsyis: Data results are reported as percent recoveries.

Results relate only to the items tested.

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4222150	4-Bromofluorobenzene	2015/10/09	98	70 - 130	100	70 - 130	91	%				
4222150	D4-1,2-Dichloroethane	2015/10/09	109	70 - 130	110	70 - 130	117	%				
4222150	D8-Toluene	2015/10/09	112	70 - 130	109	70 - 130	93	%				
4222370	Decachlorobiphenyl	2015/10/08	78	60 - 130	68	60 - 130	61	%				
4224045	1,4-Difluorobenzene	2015/10/09	102	70 - 130	101	70 - 130	102	%				
4224045	4-Bromofluorobenzene	2015/10/09	101	70 - 130	102	70 - 130	101	%				
4224045	D10-Ethylbenzene	2015/10/09	109	70 - 130	106	70 - 130	105	%				
4224045	D4-1,2-Dichloroethane	2015/10/09	98	70 - 130	101	70 - 130	99	%				
4224525	o-Terphenyl	2015/10/10	99	60 - 130	99	60 - 130	97	%				
4227862	2,4,6-Tribromophenol	2015/10/15	98	50 - 130	90	50 - 130	74	%				
4227862	2-Fluorobiphenyl	2015/10/15	65	50 - 130	62	50 - 130	67	%				
4227862	D14-Terphenyl (FS)	2015/10/15	107	50 - 130	104	50 - 130	106	%				
4227862	D5-Nitrobenzene	2015/10/15	77	50 - 130	78	50 - 130	68	%				
4221074	Free Cyanide	2015/10/13	106	80 - 120	105	80 - 120	<2	ug/L	NC	20		
4221643	Turbidity	2015/10/07			99	85 - 115	<0.2	NTU	11	20		
4221717	Alkalinity (Total as CaCO3)	2015/10/08			95	85 - 115	<1.0	mg/L	1.2	25		
4221718	Conductivity	2015/10/08			100	85 - 115	<1.0	umho/cm	0.62	25		
4221719	Fluoride (F-)	2015/10/08	101	80 - 120	97	80 - 120	<0.10	mg/L	NC	20		
4221720	pH	2015/10/08			102	98 - 103			0.19	N/A		
4222047	Total Suspended Solids	2015/10/08					<10	mg/L	NC	25	95	85 - 115
4222150	1,1,1,2-Tetrachloroethane	2015/10/09	93	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
4222150	1,1,1-Trichloroethane	2015/10/09	95	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
4222150	1,1,2,2-Tetrachloroethane	2015/10/09	99	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
4222150	1,1,2-Trichloroethane	2015/10/09	99	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4222150	1,1-Dichloroethane	2015/10/09	96	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
4222150	1,1-Dichloroethylene	2015/10/09	106	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
4222150	1,2-Dichlorobenzene	2015/10/09	92	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4222150	1,2-Dichloroethane	2015/10/09	97	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4222150	1,2-Dichloropropane	2015/10/09	93	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4222150	1,3-Dichlorobenzene	2015/10/09	83	70 - 130	84	70 - 130	<0.50	ug/L	NC	30		

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4222150	1,4-Dichlorobenzene	2015/10/09	91	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
4222150	Acetone (2-Propanone)	2015/10/09	119	60 - 140	120	60 - 140	<10	ug/L	NC	30		
4222150	Benzene	2015/10/09	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
4222150	Bromodichloromethane	2015/10/09	101	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
4222150	Bromoform	2015/10/09	91	70 - 130	93	70 - 130	<1.0	ug/L	NC	30		
4222150	Bromomethane	2015/10/09	91	60 - 140	91	60 - 140	<0.50	ug/L	NC	30		
4222150	Carbon Tetrachloride	2015/10/09	92	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4222150	Chlorobenzene	2015/10/09	100	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
4222150	Chloroform	2015/10/09	93	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
4222150	cis-1,2-Dichloroethylene	2015/10/09	104	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
4222150	cis-1,3-Dichloropropene	2015/10/09	89	70 - 130	88	70 - 130	<0.30	ug/L	NC	30		
4222150	Dibromochloromethane	2015/10/09	93	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
4222150	Dichlorodifluoromethane (FREON 12)	2015/10/09	97	60 - 140	100	60 - 140	<1.0	ug/L	NC	30		
4222150	Ethylbenzene	2015/10/09	88	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
4222150	Ethylene Dibromide	2015/10/09	91	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
4222150	Hexane	2015/10/09	102	70 - 130	105	70 - 130	<1.0	ug/L	NC	30		
4222150	Methyl Ethyl Ketone (2-Butanone)	2015/10/09	NC	60 - 140	119	60 - 140	<10	ug/L	NC	30		
4222150	Methyl Isobutyl Ketone	2015/10/09	119	70 - 130	109	70 - 130	<5.0	ug/L	NC	30		
4222150	Methyl t-butyl ether (MTBE)	2015/10/09	87	70 - 130	88	70 - 130	<0.50	ug/L	NC	30		
4222150	Methylene Chloride(Dichloromethane)	2015/10/09	96	70 - 130	97	70 - 130	<2.0	ug/L	NC	30		
4222150	o-Xylene	2015/10/09	82	70 - 130	85	70 - 130	<0.20	ug/L	NC	30		
4222150	p+m-Xylene	2015/10/09	84	70 - 130	76	70 - 130	<0.20	ug/L	NC	30		
4222150	Styrene	2015/10/09	86	70 - 130	89	70 - 130	<0.50	ug/L	NC	30		
4222150	Tetrachloroethylene	2015/10/09	87	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
4222150	Toluene	2015/10/09	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
4222150	Total Xylenes	2015/10/09					<0.20	ug/L	NC	30		
4222150	trans-1,2-Dichloroethylene	2015/10/09	90	70 - 130	93	70 - 130	<0.50	ug/L	NC	30		
4222150	trans-1,3-Dichloropropene	2015/10/09	107	70 - 130	102	70 - 130	<0.40	ug/L	NC	30		
4222150	Trichloroethylene	2015/10/09	86	70 - 130	87	70 - 130	<0.20	ug/L	NC	30		
4222150	Trichlorofluoromethane (FREON 11)	2015/10/09	97	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4222150	Vinyl Chloride	2015/10/09	100	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4222187	Mercury (Hg)	2015/10/09	92	75 - 125	92	80 - 120	<0.00010	mg/L	NC	20		
4222370	Aroclor 1242	2015/10/08					<0.05	ug/L	NC	30		
4222370	Aroclor 1248	2015/10/08					<0.05	ug/L	NC	30		
4222370	Aroclor 1254	2015/10/08					<0.05	ug/L	NC	30		
4222370	Aroclor 1260	2015/10/08	78	60 - 130	65	60 - 130	<0.05	ug/L	NC	30		
4222370	Total PCB	2015/10/08	78	60 - 130	65	60 - 130	<0.05	ug/L	NC	40		
4222881	Nitrate (N)	2015/10/09	NC	80 - 120	98	80 - 120	<0.10	mg/L	0.42	25		
4222881	Nitrite (N)	2015/10/09	106	80 - 120	106	80 - 120	<0.010	mg/L				
4222885	Nitrate (N)	2015/10/09	94	80 - 120	92	80 - 120	<0.10	mg/L	NC	25		
4222885	Nitrite (N)	2015/10/09	105	80 - 120	102	80 - 120	<0.010	mg/L				
4223103	Total Dissolved Solids	2015/10/08					<10	mg/L	4.3	25	98	90 - 110
4223112	Acidity as CaC03	2015/10/14					<10	mg/L	NC	25		
4223173	Dissolved Chloride (Cl)	2015/10/14	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.11	20		
4223177	Dissolved Sulphate (SO4)	2015/10/09	NC	75 - 125	98	80 - 120	<1.0	mg/L	0.20	20		
4223178	Orthophosphate (P)	2015/10/09	106	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
4223255	Dissolved Organic Carbon	2015/10/08	98	80 - 120	100	80 - 120	0.20, RDL=0.20	mg/L	0.37	20		
4223565	Chromium (VI)	2015/10/09	91	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
4223915	Chromium (VI)	2015/10/09	100	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
4224045	Benzene	2015/10/09	116	70 - 130	100	70 - 130	<0.20	ug/L				
4224045	Ethylbenzene	2015/10/09	109	70 - 130	105	70 - 130	<0.20	ug/L				
4224045	F1 (C6-C10) - BTEX	2015/10/09					<25	ug/L	NC	30		
4224045	F1 (C6-C10)	2015/10/09	92	70 - 130	98	70 - 130	<25	ug/L	NC	30		
4224045	o-Xylene	2015/10/09	108	70 - 130	106	70 - 130	<0.20	ug/L				
4224045	p+m-Xylene	2015/10/09	99	70 - 130	95	70 - 130	<0.40	ug/L				
4224045	Toluene	2015/10/09	98	70 - 130	96	70 - 130	<0.20	ug/L				
4224045	Total Xylenes	2015/10/09					<0.40	ug/L				
4224206	Total Ammonia-N	2015/10/10	106	80 - 120	103	85 - 115	<0.050	mg/L	NC	20		
4224525	F2 (C10-C16 Hydrocarbons)	2015/10/11	86	50 - 130	88	60 - 130	<100	ug/L	NC	30		
4224525	F3 (C16-C34 Hydrocarbons)	2015/10/11	90	50 - 130	95	60 - 130	<200	ug/L	NC	30		
4224525	F4 (C34-C50 Hydrocarbons)	2015/10/11	86	50 - 130	91	60 - 130	<200	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
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Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4224869	Total Organic Carbon (TOC)	2015/10/09	NC	80 - 120	101	80 - 120	<0.20	mg/L	1.3	20		
4227153	Dissolved Aluminum (Al)	2015/10/14	105	80 - 120	101	80 - 120	<0.0050	mg/L	NC	20		
4227153	Dissolved Antimony (Sb)	2015/10/14	100	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
4227153	Dissolved Arsenic (As)	2015/10/14	103	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
4227153	Dissolved Barium (Ba)	2015/10/14	98	80 - 120	96	80 - 120	<0.0020	mg/L	0.13	20		
4227153	Dissolved Beryllium (Be)	2015/10/14	99	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
4227153	Dissolved Boron (B)	2015/10/14	96	80 - 120	90	80 - 120	<0.010	mg/L	NC	20		
4227153	Dissolved Cadmium (Cd)	2015/10/14	101	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20		
4227153	Dissolved Calcium (Ca)	2015/10/14	NC	80 - 120	102	80 - 120	<0.20	mg/L	2.8	20		
4227153	Dissolved Chromium (Cr)	2015/10/14	100	80 - 120	96	80 - 120	<0.0050	mg/L	NC	20		
4227153	Dissolved Cobalt (Co)	2015/10/14	103	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
4227153	Dissolved Copper (Cu)	2015/10/14	103	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
4227153	Dissolved Iron (Fe)	2015/10/14	103	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
4227153	Dissolved Lead (Pb)	2015/10/14	97	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4227153	Dissolved Magnesium (Mg)	2015/10/14	NC	80 - 120	101	80 - 120	<0.050	mg/L	1.2	20		
4227153	Dissolved Manganese (Mn)	2015/10/14	100	80 - 120	97	80 - 120	<0.0020	mg/L	NC	20		
4227153	Dissolved Molybdenum (Mo)	2015/10/14	102	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
4227153	Dissolved Nickel (Ni)	2015/10/14	102	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
4227153	Dissolved Phosphorus (P)	2015/10/14	105	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
4227153	Dissolved Potassium (K)	2015/10/14	106	80 - 120	99	80 - 120	<0.20	mg/L	0.65	20		
4227153	Dissolved Selenium (Se)	2015/10/14	105	80 - 120	102	80 - 120	<0.0020	mg/L	NC	20		
4227153	Dissolved Silicon (Si)	2015/10/14	99	80 - 120	97	80 - 120	<0.050	mg/L	1.6	20		
4227153	Dissolved Silver (Ag)	2015/10/14	100	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20		
4227153	Dissolved Sodium (Na)	2015/10/14	NC	80 - 120	102	80 - 120	<0.10	mg/L	1.5	20		
4227153	Dissolved Strontium (Sr)	2015/10/14	NC	80 - 120	95	80 - 120	<0.0010	mg/L	0.049	20		
4227153	Dissolved Thallium (Tl)	2015/10/14	98	80 - 120	101	80 - 120	<0.000050	mg/L	NC	20		
4227153	Dissolved Titanium (Ti)	2015/10/14	97	80 - 120	93	80 - 120	<0.0050	mg/L	NC	20		
4227153	Dissolved Uranium (U)	2015/10/14	97	80 - 120	99	80 - 120	<0.00010	mg/L	3.9	20		
4227153	Dissolved Vanadium (V)	2015/10/14	101	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
4227153	Dissolved Zinc (Zn)	2015/10/14	101	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
4227153	Dissolved Zirconium (Zr)	2015/10/14	103	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4227862	1,2,4-Trichlorobenzene	2015/10/15	56	40 - 130	51	40 - 130	<0.1	ug/L	NC	30		
4227862	1,2-Dichlorobenzene	2015/10/15	55	30 - 130	51	30 - 130	<0.5	ug/L				
4227862	1,3-Dichlorobenzene	2015/10/15	50	30 - 130	46	30 - 130	<0.5	ug/L				
4227862	1,4-Dichlorobenzene	2015/10/15	51	30 - 130	48	30 - 130	<0.5	ug/L				
4227862	1-Methylnaphthalene	2015/10/15	82	50 - 130	81	50 - 130	<0.2	ug/L	NC	30		
4227862	2,3,4,6 + 2,3,4,5-Tetrachlorophenol	2015/10/15	101	30 - 130	89	30 - 130	<1	ug/L				
4227862	2,3,4-Trichlorophenol	2015/10/15	90	10 - 130	91	10 - 130	<0.5	ug/L				
4227862	2,3,5,6-Tetrachlorophenol	2015/10/15	93	10 - 130	67	10 - 130	<0.5	ug/L				
4227862	2,3,6-Trichlorophenol	2015/10/15	91	10 - 130	89	10 - 130	<0.5	ug/L				
4227862	2,4,5-Trichlorophenol	2015/10/15	94	50 - 130	94	50 - 130	<0.2	ug/L	NC	30		
4227862	2,4,6-Trichlorophenol	2015/10/15	92	50 - 130	91	50 - 130	<0.2	ug/L	NC	30		
4227862	2,4-Dichlorophenol	2015/10/15	76	50 - 130	76	50 - 130	<0.1	ug/L	NC	30		
4227862	2,4-Dimethylphenol	2015/10/15	68	30 - 130	67	30 - 130	<0.5	ug/L	NC	30		
4227862	2,4-Dinitrophenol	2015/10/15	63	30 - 130	3.5 (1)	30 - 130	<2	ug/L	NC	30		
4227862	2,4-Dinitrotoluene	2015/10/15	96	50 - 130	93	50 - 130	<0.3	ug/L	NC	30		
4227862	2,6-Dinitrotoluene	2015/10/15	93	50 - 130	89	50 - 130	<0.3	ug/L	NC	30		
4227862	2-Chlorophenol	2015/10/15	72	50 - 130	76	50 - 130	<0.1	ug/L	NC	30		
4227862	2-Methylnaphthalene	2015/10/15	75	50 - 130	74	50 - 130	<0.2	ug/L	NC	30		
4227862	3,3'-Dichlorobenzidine	2015/10/15	102	30 - 130	98	30 - 130	<0.5	ug/L	NC	30		
4227862	3,4,5-Trichlorophenol	2015/10/15	101	10 - 130	96	10 - 130	<0.5	ug/L				
4227862	Acenaphthene	2015/10/15	90	50 - 130	85	50 - 130	<0.2	ug/L	NC	30		
4227862	Acenaphthylene	2015/10/15	86	50 - 130	82	50 - 130	<0.2	ug/L	NC	30		
4227862	Acridine	2015/10/15					<2	ug/L				
4227862	Anthracene	2015/10/15	94	50 - 130	90	50 - 130	<0.05	ug/L	NC	30		
4227862	Benzo(a)anthracene	2015/10/15	109	50 - 130	104	50 - 130	<0.05	ug/L	NC	30		
4227862	Benzo(a)pyrene	2015/10/15	102	50 - 130	98	50 - 130	<0.01	ug/L	NC	30		
4227862	Benzo(b/j)fluoranthene	2015/10/15	116	50 - 130	112	50 - 130	<0.05	ug/L	NC	30		
4227862	Benzo(e)pyrene	2015/10/15	118	30 - 130	114	30 - 130	<0.05	ug/L				
4227862	Benzo(g,h,i)perylene	2015/10/15	88	50 - 130	87	50 - 130	<0.05	ug/L	NC	30		
4227862	Benzo(k)fluoranthene	2015/10/15	112	50 - 130	106	50 - 130	<0.05	ug/L	NC	30		
4227862	Biphenyl	2015/10/15	83	50 - 130	80	50 - 130	<0.1	ug/L	NC	30		

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4227862	Bis(2-chloroethyl)ether	2015/10/15	77	50 - 130	80	50 - 130	<0.5	ug/L	NC	30		
4227862	Bis(2-chloroisopropyl)ether	2015/10/15	68	50 - 130	69	50 - 130	<0.5	ug/L	NC	30		
4227862	Bis(2-ethylhexyl)phthalate	2015/10/15	103	50 - 130	98	50 - 130	<1	ug/L	NC	30		
4227862	Chrysene	2015/10/15	107	50 - 130	102	50 - 130	<0.05	ug/L	NC	30		
4227862	Dibenz(a,h)anthracene	2015/10/15	90	50 - 130	89	50 - 130	<0.1	ug/L	NC	30		
4227862	Diethyl phthalate	2015/10/15	90	50 - 130	87	50 - 130	<0.1	ug/L	NC	30		
4227862	Dimethyl phthalate	2015/10/15	96	50 - 130	92	50 - 130	<0.1	ug/L	NC	30		
4227862	Fluoranthene	2015/10/15	107	50 - 130	100	50 - 130	<0.2	ug/L	NC	30		
4227862	Fluorene	2015/10/15	95	50 - 130	90	50 - 130	<0.2	ug/L	NC	30		
4227862	Hexachlorobenzene	2015/10/15	94	30 - 130	88	30 - 130	<0.1	ug/L				
4227862	Hexachlorobutadiene	2015/10/15	51	30 - 130	50	30 - 130	<0.1	ug/L				
4227862	Hexachloroethane	2015/10/15	55	30 - 130	55	30 - 130	<0.2	ug/L				
4227862	Indeno(1,2,3-cd)pyrene	2015/10/15	88	50 - 130	87	50 - 130	<0.1	ug/L	NC	30		
4227862	Naphthalene	2015/10/15	77	50 - 130	77	50 - 130	<0.2	ug/L	NC	30		
4227862	p-Chloroaniline	2015/10/15	99	30 - 130	95	30 - 130	<1	ug/L	NC	30		
4227862	Pentachlorophenol	2015/10/15	80	50 - 130	33 (1)	50 - 130	<0.1	ug/L	NC	30		
4227862	Perylene	2015/10/15	107	30 - 130	103	30 - 130	<0.05	ug/L				
4227862	Phenanthrene	2015/10/15	96	50 - 130	90	50 - 130	<0.1	ug/L	NC	30		
4227862	Phenol	2015/10/15	35	30 - 130	35	30 - 130	<0.5	ug/L	NC	30		
4227862	Pyrene	2015/10/15	120	50 - 130	114	50 - 130	<0.05	ug/L	NC	30		

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4227862	Quinoline	2015/10/15					<2	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K2885
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Sampler Initials: RD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Bruce Reynolds, Technical Leader

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
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COOLER OBSERVATIONS:

MAXXAM JOB#: B5K2885 RGN

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	4	4	3
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5	3	4
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	2	3	3
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	4	4	5
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5	5	4
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	6	4	4
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	3	1	4
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	2	1	1
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	1	3	3
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	0	1	1
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
	HARWIN GREWAL	2015/10/06	12:50

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STANTEC CHAIN OF CUSTODY RECORD

Page 1 of 1

IMMEDIATE TAT

INVOICE INFORMATION:		REPORT INFORMATION(if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#9197 Stantec Consulting Ltd	Company Name:	#18379 Stantec Consulting Ltd	Quotation #:	B48218	Maxxam Job #:	Bottle Order #: 532448
Contact Name:	Accounts Payable	Contact Name:	Report - 1609-00764	Task #:			
Address:	49 Frederick St Kitchener ON N2H 6M7	Address:	ON	Project #:	160900764		
Phone:	(519) 579-4410 Fax: (519) 579-6733	Phone:	EDD @ stantec.com Fax:	Profit Centre:	CLARINGTON TS-MONITORING W	COC #: C#532448-01-01	Project Manager: Deepthi Shaji
Email:	Stantec.Accounts.Payable.Invoices@Stantec.com	Email:	aaron.warkentin@stantec.com, brant.gill@stantec.com;	Site #:			
				Sampled By:	RD + DM		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): [X] Table 1 [ ] Res/Park [ ] Medium/Fine; [ ] Table 2 [ ] Ind/Comm [ ] Coarse; [ ] Table 3 [ ] Agri/Other [ ] For RSC; [ ] Table ___

Other Regulations: [ ] CCME [ ] Sanitary Sewer Bylaw; [ ] Reg 558 [ ] Storm Sewer Bylaw; [ ] MISA Municipality ___; [ ] PWQO; [ ] Other ___

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects
Regular (Standard) TAT: [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ [ ]
Rush Confirmation Number: ___ *(call lab for #)*

	*Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / HG / CrVI	Acidity, CrVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	Reg 153 PHC - F1-F4	Reg 153 PCBs	Reg 153 VOCs	RCAp - Comprehensive (field filtered metals)	SVOC	Lab Filtered SVOCs			# of Bottles	Comments
1		WG-160900764-201510 05-RD01	Oct 5/15	1351	GW	Y	X	X	X	X	X	X	X				20	
2		WG-160900764-201510 05-RD01A		1351										X			2	
3		WG-160900764-201510 05-RD02		14:11		Y	X	X	X	X	X	X	X				20	
4		WG-160900764-201510 05-RD02A		14:11										X			2	
5		WG-160900764-201510 05-RD03		16:00		Y	X	X	X	X	X	X	X				20	
6		WG-160900764-201510 05-RD03A		16:00										X			2	
7		WG-160900764-201510 05-RD04		16:20		Y	X	X	X	X	X	X	X				20	
8		WG-160900764-201510 05-RD04A		16:20										X			2	
9		WG-160900764-201510 -																
10		WG-160900764-201510 -																

06-Oct-15 08:30
Deepthi Shaji
B5K2885
RGN ENV-986

REC'D IN PORT HOPE

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
	15/10/05	1800	BRENDA WOODWARD Brenda Woodward	2015/10/06	08:30	
			J MARWIN CREWAL	2015/10/06	12:50	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
	8°/8°/8°C 5°/5°/5°C	Present	✓	
	7°/7°/7°C 6°/6°/6°C	Intact	✓	

7°/7°/7°C
Refer to ACTR

308453

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxam Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Your C.O.C. #: 532470-03-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/20
Report #: R3727000
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K3284
Received: 2015/10/06, 18:05

Sample Matrix: Water
Samples Received: 23

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	22	N/A	2015/10/16	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	23	2015/10/14	2015/10/15	CAM SOP-00301	EPA 8270 m
Acidity as CaC03 in liquid (1, 2)	16	2015/10/08	2015/10/14	SLA SOP-00100	APHA SM2310B (Mod)
Alkalinity	15	N/A	2015/10/07	CAM SOP-00448	SM 22 2320 B m
Alkalinity	1	N/A	2015/10/17	CAM SOP-00448	SM 22 2320 B m
Carbonate, Bicarbonate and Hydroxide	16	N/A	2015/10/08	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	16	N/A	2015/10/14		EPA 8260C m
Chloride by Automated Colourimetry	15	N/A	2015/10/08	CAM SOP-00463	EPA 325.2 m
Chloride by Automated Colourimetry	1	N/A	2015/10/16	CAM SOP-00463	EPA 325.2 m
Conductivity	5	N/A	2015/10/07	CAM SOP-00414	SM 22 2510 m
Conductivity	11	N/A	2015/10/08	CAM SOP-00414	SM 22 2510 m
Chromium (VI) in Water	4	N/A	2015/10/07	CAM SOP-00436	EPA 7199 m
Chromium (VI) in Water	12	N/A	2015/10/08	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	14	N/A	2015/10/08	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	2	N/A	2015/10/13	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (3)	13	N/A	2015/10/08	CAM SOP-00446	SM 22 5310 B m
Petroleum Hydro. CCME F1 & BTEX in Water	6	N/A	2015/10/11	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Water	5	N/A	2015/10/12	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Water	5	N/A	2015/10/13	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (4)	11	2015/10/13	2015/10/13	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (4)	5	2015/10/13	2015/10/14	CAM SOP-00316	CCME PHC-CWS m
Fluoride	11	2015/10/07	2015/10/07	CAM SOP-00449	SM 22 4500-F C m
Fluoride	5	2015/10/07	2015/10/08	CAM SOP-00449	SM 22 4500-F C m
Hardness (calculated as CaCO3)	3	N/A	2015/10/08	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	8	N/A	2015/10/14	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	5	N/A	2015/10/15	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	4	2015/10/08	2015/10/09	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	12	2015/10/09	2015/10/13	CAM SOP-00453	EPA 7470A m

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Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Your C.O.C. #: 532470-03-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/20
Report #: R3727000
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K3284
Received: 2015/10/06, 18:05

Sample Matrix: Water
Samples Received: 23

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Lab Filtered Metals Analysis by ICP	3	2015/10/07	2015/10/08	CAM SOP-00408	EPA 6010C m
Dissolved Metals by ICPMS	4	N/A	2015/10/14	CAM SOP-00447	EPA 6020A m
Dissolved Metals by ICPMS	1	N/A	2015/10/20	CAM SOP-00447	EPA 6020A m
Metals Analysis by ICPMS (as received) (5)	8	2015/10/14	2015/10/14	CAM SOP-00447	EPA 6020A m
Total Metals Analysis by ICPMS	3	N/A	2015/10/13	CAM SOP-00447	EPA 6020A m
Ion Balance (% Difference)	8	N/A	2015/10/14		
Ion Balance (% Difference)	5	N/A	2015/10/15		
Anion and Cation Sum	8	N/A	2015/10/14		
Anion and Cation Sum	5	N/A	2015/10/15		
Total Coliforms/ E. coli, CFU/100mL	7	N/A	2015/10/06	CAM SOP-00551	MOE E3407
Total Ammonia-N	16	N/A	2015/10/14	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (6)	16	N/A	2015/10/08	CAM SOP-00440	SM 22 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	2	2015/10/07	2015/10/07	CAM SOP-00309	EPA 8082A m
Polychlorinated Biphenyl in Water	14	2015/10/07	2015/10/08	CAM SOP-00309	EPA 8082A m
pH	16	N/A	2015/10/07	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	16	N/A	2015/10/08	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	3	N/A	2015/10/08		
Sat. pH and Langelier Index (@ 20C)	8	N/A	2015/10/14		
Sat. pH and Langelier Index (@ 20C)	5	N/A	2015/10/15		
Sat. pH and Langelier Index (@ 4C)	3	N/A	2015/10/08		
Sat. pH and Langelier Index (@ 4C)	8	N/A	2015/10/14		
Sat. pH and Langelier Index (@ 4C)	5	N/A	2015/10/15		
Sulphate by Automated Colourimetry	15	N/A	2015/10/08	CAM SOP-00464	EPA 375.4 m
Sulphate by Automated Colourimetry	1	N/A	2015/10/16	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	8	N/A	2015/10/14		
Total Dissolved Solids (TDS calc)	5	N/A	2015/10/15		
Total Dissolved Solids	16	N/A	2015/10/09	CAM SOP-00428	SM 22 2540C m
Total Organic Carbon (TOC) (7)	16	N/A	2015/10/13	CAM SOP-00446	SM 22 5310B m
Total Phosphorus (Colourimetric)	3	2015/10/13	2015/10/13	CAM SOP-00407	SM 4500 P B H m
Total Suspended Solids	16	N/A	2015/10/09	CAM SOP-00428	SM 22 2540D m

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Your Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Your C.O.C. #: 532470-03-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/20
Report #: R3727000
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K3284
Received: 2015/10/06, 18:05

Sample Matrix: Water
Samples Received: 23

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Turbidity	5	N/A	2015/10/07	CAM SOP-00417	SM 22 2130 B m
Turbidity	11	N/A	2015/10/08	CAM SOP-00417	SM 22 2130 B m
Volatile Organic Compounds in Water	14	N/A	2015/10/10	CAM SOP000228	EPA 8260C m
Volatile Organic Compounds in Water	2	N/A	2015/10/14	CAM SOP000228	EPA 8260C m

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

Maxxam Analytics is accredited for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Sladeview Petrochemical
(2) Sample(s) analyzed using methodologies that have not been subjected to Maxxam's standard validation process for the submitted matrix and is not an Accredited method. Analysis performed with client consent, however results should be viewed with discretion
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
(5) Metals analysis was performed on the sample 'as received'.
(6) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(7) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

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Your Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Your C.O.C. #: 532470-03-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/20
Report #: R3727000
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K3284
Received: 2015/10/06, 18:05

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Deepthi Shaji, Project Manager
Email: dshaji@maxxam.ca
Phone# (905)817-5700 Ext:5807
==========
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCP424			BCP426		
Sampling Date		2015/10/06 08:00			2015/10/06 14:50		
COC Number		532470-03-01			532470-03-01		
	UNITS	WG-160900764-2015106-RD05	RDL	QC Batch	WG-160900764-2015106-RD06	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	6.44	N/A	4218508	4.18	N/A	4218508
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	240	1.0	4218503	180	1.0	4218503
Calculated TDS	mg/L	360	1.0	4218511	190	1.0	4218511
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	4218503	<1.0	1.0	4218503
Cation Sum	me/L	6.42	N/A	4218508	2.43	N/A	4218508
Hardness (CaCO3)	mg/L	310	1.0	4219655	25	1.0	4219655
Ion Balance (% Difference)	%	0.130	N/A	4218507	26.5	N/A	4218507
Langelier Index (@ 20C)	N/A	0.444		4218509	-0.628		4218509
Langelier Index (@ 4C)	N/A	0.195		4218510	-0.877		4218510
Saturation pH (@ 20C)	N/A	7.04		4218509	8.36		4218509
Saturation pH (@ 4C)	N/A	7.29		4218510	8.61		4218510
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	4225865	<0.050	0.050	4225865
Conductivity	umho/cm	600	1.0	4221003	280	1.0	4221003
Dissolved Organic Carbon	mg/L	1.1	0.20	4221088	7.7	0.20	4221088
Orthophosphate (P)	mg/L	<0.010	0.010	4221401	<0.010	0.010	4221401
pH	pH	7.49	N/A	4221002	7.73	N/A	4221002
Dissolved Sulphate (SO4)	mg/L	27	1.0	4221398	20	1.0	4231745
Alkalinity (Total as CaCO3)	mg/L	240	1.0	4220991	180	1.0	4231772
Dissolved Chloride (Cl)	mg/L	16	1.0	4221397	5.0	1.0	4231744
Nitrite (N)	mg/L	<0.010	0.010	4221000	<0.010	0.010	4221000
Nitrate (N)	mg/L	8.63	0.50	4221000	<0.10	0.10	4221000
Nitrate + Nitrite (N)	mg/L	8.63	0.50	4221000	<0.10	0.10	4221000
Metals							
Dissolved Aluminum (Al)	mg/L	<0.0050	0.0050	4228316	0.019	0.0050	4236357
Dissolved Antimony (Sb)	mg/L	<0.00050	0.00050	4228316	<0.00050	0.00050	4236357
Dissolved Arsenic (As)	mg/L	<0.0010	0.0010	4228316	0.0019	0.0010	4236357
Dissolved Barium (Ba)	mg/L	0.055	0.0020	4228316	0.0078	0.0020	4236357
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	4228316	<0.00050	0.00050	4236357
Dissolved Boron (B)	mg/L	<0.010	0.010	4228316	0.20	0.010	4236357
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	4228316	<0.00010	0.00010	4236357

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCP424			BCP426		
Sampling Date		2015/10/06 08:00			2015/10/06 14:50		
COC Number		532470-03-01			532470-03-01		
	UNITS	WG-160900764-2015106-RD05	RDL	QC Batch	WG-160900764-2015106-RD06	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	100	0.20	4228316	6.6	0.20	4236357
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	4228316	<0.0050	0.0050	4236357
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	4228316	<0.00050	0.00050	4236357
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	4228316	<0.0010	0.0010	4236357
Dissolved Iron (Fe)	mg/L	<0.10	0.10	4228316	<0.10	0.10	4236357
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	4228316	<0.00050	0.00050	4236357
Dissolved Magnesium (Mg)	mg/L	12	0.050	4228316	2.2	0.050	4236357
Dissolved Manganese (Mn)	mg/L	0.0021	0.0020	4228316	0.0073	0.0020	4236357
Dissolved Molybdenum (Mo)	mg/L	0.00055	0.00050	4228316	0.0075	0.00050	4236357
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	4228316	<0.0010	0.0010	4236357
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	4228316	<0.10	0.10	4236357
Dissolved Potassium (K)	mg/L	1.9	0.20	4228316	0.64	0.20	4236357
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	4228316	<0.0020	0.0020	4236357
Dissolved Silicon (Si)	mg/L	5.8	0.050	4228316	3.3	0.050	4236357
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	4228316	<0.00010	0.00010	4236357
Dissolved Sodium (Na)	mg/L	4.8	0.10	4228316	44	0.10	4236357
Dissolved Strontium (Sr)	mg/L	0.22	0.0010	4228316	0.11	0.0010	4236357
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	4228316	<0.000050	0.000050	4236357
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	4228316	<0.0050	0.0050	4236357
Dissolved Uranium (U)	mg/L	0.00073	0.00010	4228316	0.00084	0.00010	4236357
Dissolved Vanadium (V)	mg/L	<0.00050	0.00050	4228316	0.0013	0.00050	4236357
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	4228316	<0.0050	0.0050	4236357
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	4228316	<0.0010	0.0010	4236357

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCP428		BCP430		BCP432		
Sampling Date		2015/10/06 10:00		2015/10/06 10:00		2015/10/06 14:30		
COC Number		532470-03-01		532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-RD07	QC Batch	WG-160900764-2015106-RD08	RDL	WG-160900764-2015106-RD09	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	5.60	4218508	5.55	N/A	3.22	N/A	4218508
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	210	4218503	210	1.0	130	1.0	4218503
Calculated TDS	mg/L	330	4218511	320	1.0	170	1.0	4218511
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	4218503	<1.0	1.0	<1.0	1.0	4218503
Cation Sum	me/L	5.87	4218508	5.61	N/A	2.72	N/A	4218508
Hardness (CaCO3)	mg/L	280	4219655	270	1.0	21	1.0	4219655
Ion Balance (% Difference)	%	2.35	4218507	0.540	N/A	8.38	N/A	4218507
Langelier Index (@ 20C)	N/A	0.499	4218509	0.463		-0.687		4218509
Langelier Index (@ 4C)	N/A	0.250	4218510	0.214		-0.937		4218510
Saturation pH (@ 20C)	N/A	7.12	4218509	7.15		8.47		4218509
Saturation pH (@ 4C)	N/A	7.37	4218510	7.40		8.72		4218510
Inorganics								
Total Ammonia-N	mg/L	<0.050	4225865	<0.050	0.050	<0.050	0.050	4225865
Conductivity	umho/cm	540	4221003	530	1.0	250	1.0	4220784
Dissolved Organic Carbon	mg/L	0.87	4221088	0.86	0.20	1.2	0.20	4221088
Orthophosphate (P)	mg/L	<0.010	4221401	<0.010	0.010	<0.010	0.010	4221383
pH	pH	7.62	4221002	7.61	N/A	7.78	N/A	4220786
Dissolved Sulphate (SO4)	mg/L	19	4221398	19	1.0	22	1.0	4221385
Alkalinity (Total as CaCO3)	mg/L	210	4220991	210	1.0	130	1.0	4220783
Dissolved Chloride (Cl)	mg/L	7.0	4221397	6.8	1.0	3.5	1.0	4221377
Nitrite (N)	mg/L	<0.010	4221000	<0.010	0.010	0.011	0.010	4221360
Nitrate (N)	mg/L	11.1	4221000	11.2	0.50	<0.10	0.10	4221360
Nitrate + Nitrite (N)	mg/L	11.1	4221000	11.2	0.50	<0.10	0.10	4221360
Metals								
Dissolved Aluminum (Al)	mg/L	<0.0050	4228316	<0.0050	0.0050	0.086	0.0050	4228316
Dissolved Antimony (Sb)	mg/L	<0.00050	4228316	<0.00050	0.00050	0.00070	0.00050	4228316
Dissolved Arsenic (As)	mg/L	<0.0010	4228316	<0.0010	0.0010	0.0017	0.0010	4228316
Dissolved Barium (Ba)	mg/L	0.033	4228316	0.032	0.0020	0.0087	0.0020	4228316
Dissolved Beryllium (Be)	mg/L	<0.00050	4228316	<0.00050	0.00050	<0.00050	0.00050	4228316
Dissolved Boron (B)	mg/L	<0.010	4228316	<0.010	0.010	0.20	0.010	4228316
Dissolved Cadmium (Cd)	mg/L	<0.00010	4228316	<0.00010	0.00010	<0.00010	0.00010	4228316

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCP428		BCP430		BCP432		
Sampling Date		2015/10/06 10:00		2015/10/06 10:00		2015/10/06 14:30		
COC Number		532470-03-01		532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-RD07	QC Batch	WG-160900764-2015106-RD08	RDL	WG-160900764-2015106-RD09	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	96	4228316	92	0.20	6.6	0.20	4228316
Dissolved Chromium (Cr)	mg/L	<0.0050	4228316	<0.0050	0.0050	<0.0050	0.0050	4228316
Dissolved Cobalt (Co)	mg/L	<0.00050	4228316	<0.00050	0.00050	<0.00050	0.00050	4228316
Dissolved Copper (Cu)	mg/L	<0.0010	4228316	<0.0010	0.0010	<0.0010	0.0010	4228316
Dissolved Iron (Fe)	mg/L	<0.10	4228316	<0.10	0.10	<0.10	0.10	4228316
Dissolved Lead (Pb)	mg/L	<0.00050	4228316	<0.00050	0.00050	<0.00050	0.00050	4228316
Dissolved Magnesium (Mg)	mg/L	11	4228316	11	0.050	1.1	0.050	4228316
Dissolved Manganese (Mn)	mg/L	<0.0020	4228316	<0.0020	0.0020	0.0033	0.0020	4228316
Dissolved Molybdenum (Mo)	mg/L	0.0011	4228316	0.0010	0.00050	0.011	0.00050	4228316
Dissolved Nickel (Ni)	mg/L	<0.0010	4228316	<0.0010	0.0010	0.0014	0.0010	4228316
Dissolved Phosphorus (P)	mg/L	<0.10	4228316	<0.10	0.10	<0.10	0.10	4228316
Dissolved Potassium (K)	mg/L	1.3	4228316	1.2	0.20	0.74	0.20	4228316
Dissolved Selenium (Se)	mg/L	<0.0020	4228316	<0.0020	0.0020	<0.0020	0.0020	4228316
Dissolved Silicon (Si)	mg/L	5.9	4228316	5.7	0.050	2.5	0.050	4228316
Dissolved Silver (Ag)	mg/L	<0.00010	4228316	<0.00010	0.00010	<0.00010	0.00010	4228316
Dissolved Sodium (Na)	mg/L	3.3	4228316	3.1	0.10	52	0.10	4228316
Dissolved Strontium (Sr)	mg/L	0.18	4228316	0.18	0.0010	0.069	0.0010	4228316
Dissolved Thallium (Tl)	mg/L	<0.000050	4228316	<0.000050	0.000050	<0.000050	0.000050	4228316
Dissolved Titanium (Ti)	mg/L	<0.0050	4228316	<0.0050	0.0050	<0.0050	0.0050	4228316
Dissolved Uranium (U)	mg/L	0.00037	4228316	0.00035	0.00010	0.0026	0.00010	4228316
Dissolved Vanadium (V)	mg/L	<0.00050	4228316	<0.00050	0.00050	0.0021	0.00050	4228316
Dissolved Zinc (Zn)	mg/L	<0.0050	4228316	<0.0050	0.0050	0.0082	0.0050	4228316
Dissolved Zirconium (Zr)	mg/L	<0.0010	4228316	<0.0010	0.0010	<0.0010	0.0010	4228316

RDL = Reportable Detection Limit
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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCP437		BCP438	BCP439		
Sampling Date		2015/10/06 09:25		2015/10/06 10:21	2015/10/06 11:18		
COC Number		532470-03-01		532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK9	QC Batch	WG-160900764-2015106-JK10	WG-160900764-2015106-JK11	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	6.74	4218508	4.34	8.69	N/A	4218508
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	270	4218503	190	300	1.0	4218503
Calculated TDS	mg/L	380	4218511	240	490	1.0	4218511
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.0	4218503	1.2	1.1	1.0	4218503
Cation Sum	me/L	7.10	4218508	4.67	9.65	N/A	4218508
Hardness (CaCO3)	mg/L	340	4219655	220	420	1.0	4219655
Ion Balance (% Difference)	%	2.60	4218507	3.66	5.24	N/A	4218507
Langelier Index (@ 20C)	N/A	0.658	4218509	0.479	0.721		4218509
Langelier Index (@ 4C)	N/A	0.409	4218510	0.230	0.473		4218510
Saturation pH (@ 20C)	N/A	6.96	4218509	7.33	6.86		4218509
Saturation pH (@ 4C)	N/A	7.21	4218510	7.58	7.11		4218510
Inorganics							
Total Ammonia-N	mg/L	<0.050	4225865	0.33	<0.050	0.050	4225865
Conductivity	umho/cm	630	4220784	400	830	1.0	4220784
Dissolved Organic Carbon	mg/L	0.98	4221088	1.4	1.0	0.20	4221088
Orthophosphate (P)	mg/L	<0.010	4221383	<0.010	<0.010	0.010	4221383
pH	pH	7.62	4220786	7.81	7.58	N/A	4220786
Dissolved Sulphate (SO4)	mg/L	23	4221385	18	41	1.0	4221385
Alkalinity (Total as CaCO3)	mg/L	270	4220783	200	300	1.0	4220783
Dissolved Chloride (Cl)	mg/L	16	4221377	2.3	59	1.0	4221377
Nitrite (N)	mg/L	<0.010	4221360	<0.010	<0.010	0.010	4220806
Nitrate (N)	mg/L	6.64	4221360	<0.10	1.45	0.10	4220806
Metals							
. Aluminum (Al)	mg/L	<0.0050	4228339	<0.0050	0.0050	0.0050	4228339
. Antimony (Sb)	mg/L	<0.00050	4228339	<0.00050	<0.00050	0.00050	4228339
. Arsenic (As)	mg/L	<0.0010	4228339	<0.0010	<0.0010	0.0010	4228339
. Barium (Ba)	mg/L	0.045	4228339	0.14	0.074	0.0020	4228339
. Beryllium (Be)	mg/L	<0.00050	4228339	<0.00050	<0.00050	0.00050	4228339
. Boron (B)	mg/L	<0.010	4228339	<0.010	<0.010	0.010	4228339
. Cadmium (Cd)	mg/L	<0.00010	4228339	<0.00010	<0.00010	0.00010	4228339
. Calcium (Ca)	mg/L	110	4228339	60	130	0.20	4228339

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCP437		BCP438	BCP439		
Sampling Date		2015/10/06 09:25		2015/10/06 10:21	2015/10/06 11:18		
COC Number		532470-03-01		532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK9	QC Batch	WG-160900764-2015106-JK10	WG-160900764-2015106-JK11	RDL	QC Batch
. Chromium (Cr)	mg/L	<0.0050	4228339	<0.0050	<0.0050	0.0050	4228339
. Cobalt (Co)	mg/L	<0.00050	4228339	<0.00050	<0.00050	0.00050	4228339
. Copper (Cu)	mg/L	0.0051	4228339	<0.0010	0.016	0.0010	4228339
. Iron (Fe)	mg/L	<0.10	4228339	1.7	<0.10	0.10	4228339
. Lead (Pb)	mg/L	<0.00050	4228339	<0.00050	0.00079	0.00050	4228339
. Magnesium (Mg)	mg/L	13	4228339	17	23	0.050	4228339
. Manganese (Mn)	mg/L	<0.0020	4228339	0.030	<0.0020	0.0020	4228339
. Molybdenum (Mo)	mg/L	<0.00050	4228339	0.00080	<0.00050	0.00050	4228339
. Nickel (Ni)	mg/L	<0.0010	4228339	<0.0010	<0.0010	0.0010	4228339
. Phosphorus (P)	mg/L	<0.10	4228339	<0.10	<0.10	0.10	4228339
. Potassium (K)	mg/L	0.99	4228339	0.97	1.8	0.20	4228339
. Selenium (Se)	mg/L	<0.0020	4228339	<0.0020	<0.0020	0.0020	4228339
. Silicon (Si)	mg/L	6.5	4228339	10	7.1	0.050	4228339
. Silver (Ag)	mg/L	<0.00010	4228339	<0.00010	<0.00010	0.00010	4228339
. Sodium (Na)	mg/L	6.9	4228339	4.6	26	0.10	4228339
. Strontium (Sr)	mg/L	0.21	4228339	0.23	0.27	0.0010	4228339
. Thallium (Tl)	mg/L	<0.000050	4228339	<0.000050	<0.000050	0.000050	4228339
. Titanium (Ti)	mg/L	<0.0050	4228339	<0.0050	<0.0050	0.0050	4228339
. Uranium (U)	mg/L	0.00064	4228339	<0.00010	0.0052	0.00010	4228339
. Vanadium (V)	mg/L	<0.00050	4228339	<0.00050	<0.00050	0.00050	4228339
. Zinc (Zn)	mg/L	0.0091	4228339	<0.0050	<0.0050	0.0050	4228339
. Zirconium (Zr)	mg/L	<0.0010	4228339	<0.0010	<0.0010	0.0010	4228339

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCP440	BCP440	BCP441	BCP442		
Sampling Date		2015/10/06 12:18	2015/10/06 12:18	2015/10/06 12:59	2015/10/06 13:34		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106JK12	WG-160900764-2015106JK12 Lab-Dup	WG-160900764-2015106-JK13	WG-160900764-2015106-JK14	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	11.7		7.15	9.50	N/A	4218508
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	390		310	310	1.0	4218503
Calculated TDS	mg/L	640		390	530	1.0	4218511
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.6		1.3	1.1	1.0	4218503
Cation Sum	me/L	12.4		7.42	9.97	N/A	4218508
Hardness (CaCO3)	mg/L	450		350	400	1.0	4219655
Ion Balance (% Difference)	%	2.77		1.80	2.45	N/A	4218507
Langelier Index (@ 20C)	N/A	0.875		0.774	0.719		4218509
Langelier Index (@ 4C)	N/A	0.627		0.526	0.471		4218510
Saturation pH (@ 20C)	N/A	6.78		6.89	6.87		4218509
Saturation pH (@ 4C)	N/A	7.02		7.14	7.12		4218510
Inorganics							
Total Ammonia-N	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	4225865
Conductivity	umho/cm	1100		650	920	1.0	4220784
Dissolved Organic Carbon	mg/L	1.7		1.0	1.0	0.20	4221088
Orthophosphate (P)	mg/L	<0.010		<0.010	<0.010	0.010	4221383
pH	pH	7.65		7.66	7.59	N/A	4220786
Dissolved Sulphate (SO4)	mg/L	38		22	36	1.0	4221385
Alkalinity (Total as CaCO3)	mg/L	390		310	310	1.0	4220783
Dissolved Chloride (Cl)	mg/L	110		11	78	1.0	4221377
Nitrite (N)	mg/L	<0.010		<0.010	<0.010	0.010	4221360
Nitrate (N)	mg/L	1.40		3.29	4.37	0.10	4221360
Metals							
. Aluminum (Al)	mg/L	<0.0050		<0.0050	0.0053	0.0050	4228339
. Antimony (Sb)	mg/L	<0.00050		<0.00050	<0.00050	0.00050	4228339
. Arsenic (As)	mg/L	<0.0010		<0.0010	<0.0010	0.0010	4228339
. Barium (Ba)	mg/L	0.092		0.047	0.065	0.0020	4228339
. Beryllium (Be)	mg/L	<0.00050		<0.00050	<0.00050	0.00050	4228339
. Boron (B)	mg/L	0.019		<0.010	0.016	0.010	4228339
. Cadmium (Cd)	mg/L	<0.00010		<0.00010	<0.00010	0.00010	4228339

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCP440	BCP440	BCP441	BCP442		
Sampling Date		2015/10/06 12:18	2015/10/06 12:18	2015/10/06 12:59	2015/10/06 13:34		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106JK12	WG-160900764-2015106JK12 Lab-Dup	WG-160900764-2015106-JK13	WG-160900764-2015106-JK14	RDL	QC Batch
. Calcium (Ca)	mg/L	130		120	130	0.20	4228339
. Chromium (Cr)	mg/L	<0.0050		<0.0050	<0.0050	0.0050	4228339
. Cobalt (Co)	mg/L	<0.00050		<0.00050	<0.00050	0.00050	4228339
. Copper (Cu)	mg/L	0.0091		0.0051	0.029	0.0010	4228339
. Iron (Fe)	mg/L	<0.10		<0.10	<0.10	0.10	4228339
. Lead (Pb)	mg/L	<0.00050		<0.00050	<0.00050	0.00050	4228339
. Magnesium (Mg)	mg/L	28		16	19	0.050	4228339
. Manganese (Mn)	mg/L	<0.0020		<0.0020	0.0047	0.0020	4228339
. Molybdenum (Mo)	mg/L	<0.00050		<0.00050	<0.00050	0.00050	4228339
. Nickel (Ni)	mg/L	<0.0010		<0.0010	<0.0010	0.0010	4228339
. Phosphorus (P)	mg/L	<0.10		<0.10	<0.10	0.10	4228339
. Potassium (K)	mg/L	2.1		0.75	1.2	0.20	4228339
. Selenium (Se)	mg/L	<0.0020		<0.0020	<0.0020	0.0020	4228339
. Silicon (Si)	mg/L	8.2		6.8	6.5	0.050	4228339
. Silver (Ag)	mg/L	<0.00010		<0.00010	<0.00010	0.00010	4228339
. Sodium (Na)	mg/L	76		8.2	44	0.10	4228339
. Strontium (Sr)	mg/L	0.34		0.21	0.27	0.0010	4228339
. Thallium (Tl)	mg/L	<0.000050		<0.000050	<0.000050	0.000050	4228339
. Titanium (Ti)	mg/L	<0.0050		<0.0050	<0.0050	0.0050	4228339
. Uranium (U)	mg/L	0.0014		0.00038	0.0015	0.00010	4228339
. Vanadium (V)	mg/L	<0.00050		<0.00050	<0.00050	0.00050	4228339
. Zinc (Zn)	mg/L	0.0058		0.010	<0.0050	0.0050	4228339
. Zirconium (Zr)	mg/L	<0.0010		<0.0010	<0.0010	0.0010	4228339

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCP442		BCP443	BCP443		
Sampling Date		2015/10/06 13:34		2015/10/06 14:04	2015/10/06 14:04		
COC Number		532470-03-01		532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK14 Lab-Dup	QC Batch	WG-160900764-2015106-JK15	WG-160900764-2015106-JK15 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L		4218508	3.21		N/A	4218508
Bicarb. Alkalinity (calc. as CaCO3)	mg/L		4218503	140		1.0	4218503
Calculated TDS	mg/L		4218511	180		1.0	4218511
Carb. Alkalinity (calc. as CaCO3)	mg/L		4218503	<1.0		1.0	4218503
Cation Sum	me/L		4218508	3.33		N/A	4218508
Hardness (CaCO3)	mg/L		4219655	130		1.0	4219655
Ion Balance (% Difference)	%		4218507	1.77		N/A	4218507
Langelier Index (@ 20C)	N/A		4218509	0.00400			4218509
Langelier Index (@ 4C)	N/A		4218510	-0.246			4218510
Saturation pH (@ 20C)	N/A		4218509	7.84			4218509
Saturation pH (@ 4C)	N/A		4218510	8.09			4218510
Inorganics							
Total Ammonia-N	mg/L		4225865	0.27		0.050	4225865
Conductivity	umho/cm		4220784	290		1.0	4220784
Dissolved Organic Carbon	mg/L		4221088	0.74	0.73	0.20	4221088
Orthophosphate (P)	mg/L		4221383	0.011		0.010	4221383
pH	pH		4220786	7.85		N/A	4220786
Dissolved Sulphate (SO4)	mg/L		4221385	12		1.0	4221385
Alkalinity (Total as CaCO3)	mg/L		4220783	140		1.0	4220783
Dissolved Chloride (Cl)	mg/L		4221377	2.5		1.0	4221377
Nitrite (N)	mg/L		4221360	<0.010		0.010	4220806
Nitrate (N)	mg/L		4221360	<0.10		0.10	4220806
Metals							
. Aluminum (Al)	mg/L	0.0053	4228339	<0.0050		0.0050	4228339
. Antimony (Sb)	mg/L	<0.00050	4228339	<0.00050		0.00050	4228339
. Arsenic (As)	mg/L	<0.0010	4228339	<0.0010		0.0010	4228339
. Barium (Ba)	mg/L	0.066	4228339	0.096		0.0020	4228339
. Beryllium (Be)	mg/L	<0.00050	4228339	<0.00050		0.00050	4228339
. Boron (B)	mg/L	0.018	4228339	0.036		0.010	4228339
. Cadmium (Cd)	mg/L	<0.00010	4228339	<0.00010		0.00010	4228339
. Calcium (Ca)	mg/L	130	4228339	23		0.20	4228339

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCP442		BCP443	BCP443		
Sampling Date		2015/10/06 13:34		2015/10/06 14:04	2015/10/06 14:04		
COC Number		532470-03-01		532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK14 Lab-Dup	QC Batch	WG-160900764-2015106-JK15	WG-160900764-2015106-JK15 Lab-Dup	RDL	QC Batch
. Chromium (Cr)	mg/L	<0.0050	4228339	<0.0050		0.0050	4228339
. Cobalt (Co)	mg/L	<0.00050	4228339	<0.00050		0.00050	4228339
. Copper (Cu)	mg/L	0.029	4228339	0.0030		0.0010	4228339
. Iron (Fe)	mg/L	<0.10	4228339	0.44		0.10	4228339
. Lead (Pb)	mg/L	<0.00050	4228339	<0.00050		0.00050	4228339
. Magnesium (Mg)	mg/L	19	4228339	18		0.050	4228339
. Manganese (Mn)	mg/L	0.0049	4228339	0.0090		0.0020	4228339
. Molybdenum (Mo)	mg/L	<0.00050	4228339	0.00072		0.00050	4228339
. Nickel (Ni)	mg/L	<0.0010	4228339	<0.0010		0.0010	4228339
. Phosphorus (P)	mg/L	<0.10	4228339	<0.10		0.10	4228339
. Potassium (K)	mg/L	1.2	4228339	0.56		0.20	4228339
. Selenium (Se)	mg/L	<0.0020	4228339	<0.0020		0.0020	4228339
. Silicon (Si)	mg/L	6.6	4228339	8.3		0.050	4228339
. Silver (Ag)	mg/L	<0.00010	4228339	<0.00010		0.00010	4228339
. Sodium (Na)	mg/L	44	4228339	15		0.10	4228339
. Strontium (Sr)	mg/L	0.28	4228339	0.36		0.0010	4228339
. Thallium (Tl)	mg/L	<0.000050	4228339	<0.000050		0.000050	4228339
. Titanium (Ti)	mg/L	<0.0050	4228339	<0.0050		0.0050	4228339
. Uranium (U)	mg/L	0.0015	4228339	<0.00010		0.00010	4228339
. Vanadium (V)	mg/L	<0.00050	4228339	<0.00050		0.00050	4228339
. Zinc (Zn)	mg/L	<0.0050	4228339	0.0064		0.0050	4228339
. Zirconium (Zr)	mg/L	<0.0010	4228339	<0.0010		0.0010	4228339

RDL = Reportable Detection Limit
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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCP444		
Sampling Date		2015/10/06 15:21		
COC Number		532470-03-01		
	UNITS	**WG-160900764 -2015106-JK16**	**RDL**	**QC Batch**
Calculated Parameters				
Anion Sum	me/L	4.54	N/A	4218508
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	210	1.0	4218503
Calculated TDS	mg/L	250	1.0	4218511
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.4	1.0	4218503
Cation Sum	me/L	4.68	N/A	4218508
Hardness (CaCO3)	mg/L	220	1.0	4219655
Ion Balance (% Difference)	%	1.53	N/A	4218507
Langelier Index (@ 20C)	N/A	0.557		4218509
Langelier Index (@ 4C)	N/A	0.308		4218510
Saturation pH (@ 20C)	N/A	7.30		4218509
Saturation pH (@ 4C)	N/A	7.55		4218510
Inorganics				
Total Ammonia-N	mg/L	0.20	0.050	4225865
Conductivity	umho/cm	410	1.0	4221003
Dissolved Organic Carbon	mg/L	1.2	0.20	4221088
Orthophosphate (P)	mg/L	0.012	0.010	4221401
pH	pH	7.86	N/A	4221002
Dissolved Sulphate (SO4)	mg/L	14	1.0	4221398
Alkalinity (Total as CaCO3)	mg/L	210	1.0	4220991
Dissolved Chloride (Cl)	mg/L	2.2	1.0	4221397
Nitrite (N)	mg/L	<0.010	0.010	4221000
Nitrate (N)	mg/L	<0.10	0.10	4221000
Metals				
. Aluminum (Al)	mg/L	<0.0050	0.0050	4228339
. Antimony (Sb)	mg/L	<0.00050	0.00050	4228339
. Arsenic (As)	mg/L	<0.0010	0.0010	4228339
. Barium (Ba)	mg/L	0.17	0.0020	4228339
. Beryllium (Be)	mg/L	<0.00050	0.00050	4228339
. Boron (B)	mg/L	<0.010	0.010	4228339
. Cadmium (Cd)	mg/L	<0.00010	0.00010	4228339
. Calcium (Ca)	mg/L	60	0.20	4228339

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCP444		
Sampling Date		2015/10/06 15:21		
COC Number		532470-03-01		
	UNITS	**WG-160900764 -2015106-JK16**	**RDL**	**QC Batch**
. Chromium (Cr)	mg/L	<0.0050	0.0050	4228339
. Cobalt (Co)	mg/L	<0.00050	0.00050	4228339
. Copper (Cu)	mg/L	0.0048	0.0010	4228339
. Iron (Fe)	mg/L	1.6	0.10	4228339
. Lead (Pb)	mg/L	<0.00050	0.00050	4228339
. Magnesium (Mg)	mg/L	17	0.050	4228339
. Manganese (Mn)	mg/L	0.021	0.0020	4228339
. Molybdenum (Mo)	mg/L	0.00057	0.00050	4228339
. Nickel (Ni)	mg/L	<0.0010	0.0010	4228339
. Phosphorus (P)	mg/L	<0.10	0.10	4228339
. Potassium (K)	mg/L	1.1	0.20	4228339
. Selenium (Se)	mg/L	<0.0020	0.0020	4228339
. Silicon (Si)	mg/L	12	0.050	4228339
. Silver (Ag)	mg/L	<0.00010	0.00010	4228339
. Sodium (Na)	mg/L	5.1	0.10	4228339
. Strontium (Sr)	mg/L	0.23	0.0010	4228339
. Thallium (Tl)	mg/L	<0.000050	0.000050	4228339
. Titanium (Ti)	mg/L	<0.0050	0.0050	4228339
. Uranium (U)	mg/L	<0.00010	0.00010	4228339
. Vanadium (V)	mg/L	<0.00050	0.00050	4228339
. Zinc (Zn)	mg/L	0.012	0.0050	4228339
. Zirconium (Zr)	mg/L	<0.0010	0.0010	4228339

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - SURFACE WATER (WATER)

Maxxam ID		BCP434	BCP435		BCP436	BCP436		
Sampling Date		2015/10/06 12:10	2015/10/06 12:10		2015/10/06 15:30	2015/10/06 15:30		
COC Number		532470-03-01	532470-03-01		532470-03-01	532470-03-01		
	UNITS	WS-160900764 -2015106-RD100	WS-160900764 -2015106-RD101	QC Batch	WS-160900764 -2015106-RD102	WS-160900764 -2015106-RD102 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	370	370	4218503	440		1.0	4218503
Carb. Alkalinity (calc. as CaCO3)	mg/L	2.5	2.5	4218503	2.2		1.0	4218503
Hardness (CaCO3)	mg/L	460	470	4219655	490		1.0	4219655
Langelier Index (@ 20C)	N/A	1.17	1.18	4218509	1.16			4218509
Langelier Index (@ 4C)	N/A	0.919	0.928	4218510	0.907			4218510
Saturation pH (@ 20C)	N/A	6.68	6.68	4218509	6.58			4218509
Saturation pH (@ 4C)	N/A	6.93	6.93	4218510	6.83			4218510
Inorganics								
Total Ammonia-N	mg/L	0.064	0.093	4225865	<0.050		0.050	4225865
Conductivity	umho/cm	840	840	4220784	900		1.0	4221003
Total Organic Carbon (TOC)	mg/L	4.2	4.2	4227103	3.8		0.20	4227103
Orthophosphate (P)	mg/L	<0.010	<0.010	4221383	<0.010		0.010	4221383
pH	pH	7.85	7.85	4220786	7.73		N/A	4221002
Total Phosphorus	mg/L	0.016	0.010	4226783	0.015	0.007	0.004	4226783
Dissolved Sulphate (SO4)	mg/L	74	83	4221385	48		1.0	4221385
Turbidity	NTU	1.2	1.1	4221031	2.2		0.2	4221031
Alkalinity (Total as CaCO3)	mg/L	370	370	4220783	440		1.0	4220991
Dissolved Chloride (Cl)	mg/L	14	15	4221377	12		1.0	4221377
Nitrite (N)	mg/L	<0.010	<0.010	4221360	<0.010		0.010	4221360
Nitrate (N)	mg/L	<0.10	<0.10	4221360	<0.10		0.10	4221360
Metals								
Dissolved Calcium (Ca)	mg/L	170	170	4220936	180		0.05	4220936
Dissolved Magnesium (Mg)	mg/L	12	12	4220936	12		0.05	4220936
Dissolved Potassium (K)	mg/L	2	2	4220936	<1		1	4220936
Dissolved Sodium (Na)	mg/L	7.7	7.8	4220936	5.9		0.5	4220936
Total Aluminum (Al)	mg/L	0.024	0.026	4226645	0.012		0.0050	4226645
Total Antimony (Sb)	mg/L	<0.00050	<0.00050	4226645	<0.00050		0.00050	4226645
Total Arsenic (As)	mg/L	<0.0010	<0.0010	4226645	<0.0010		0.0010	4226645
Total Barium (Ba)	mg/L	0.054	0.052	4226645	0.058		0.0020	4226645
Total Beryllium (Be)	mg/L	<0.00050	<0.00050	4226645	<0.00050		0.00050	4226645
Total Boron (B)	mg/L	0.036	0.031	4226645	0.024		0.010	4226645

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RCAP - SURFACE WATER (WATER)

Maxxam ID		BCP434	BCP435		BCP436	BCP436		
Sampling Date		2015/10/06 12:10	2015/10/06 12:10		2015/10/06 15:30	2015/10/06 15:30		
COC Number		532470-03-01	532470-03-01		532470-03-01	532470-03-01		
	UNITS	WS-160900764 -2015106-RD100	WS-160900764 -2015106-RD101	QC Batch	WS-160900764 -2015106-RD102	WS-160900764 -2015106-RD102 Lab-Dup	RDL	QC Batch
Total Cadmium (Cd)	mg/L	<0.00010	<0.00010	4226645	<0.00010		0.00010	4226645
Total Calcium (Ca)	mg/L	160	160	4226645	170		0.20	4226645
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	4226645	<0.0050		0.0050	4226645
Total Cobalt (Co)	mg/L	<0.00050	<0.00050	4226645	<0.00050		0.00050	4226645
Total Copper (Cu)	mg/L	<0.0010	<0.0010	4226645	<0.0010		0.0010	4226645
Total Iron (Fe)	mg/L	<0.10	<0.10	4226645	0.50		0.10	4226645
Total Lead (Pb)	mg/L	<0.00050	<0.00050	4226645	<0.00050		0.00050	4226645
Total Magnesium (Mg)	mg/L	12	11	4226645	12		0.050	4226645
Total Manganese (Mn)	mg/L	0.12	0.12	4226645	0.35		0.0020	4226645
Total Molybdenum (Mo)	mg/L	<0.00050	<0.00050	4226645	<0.00050		0.00050	4226645
Total Nickel (Ni)	mg/L	<0.0010	<0.0010	4226645	<0.0010		0.0010	4226645
Total Phosphorus (P)	mg/L	<0.10	<0.10	4226645	<0.10		0.10	4226645
Total Potassium (K)	mg/L	1.8	1.7	4226645	0.80		0.20	4226645
Total Silicon (Si)	mg/L	4.5	4.5	4226645	4.7		0.050	4226645
Total Selenium (Se)	mg/L	<0.0020	<0.0020	4226645	<0.0020		0.0020	4226645
Total Silver (Ag)	mg/L	<0.00010	<0.00010	4226645	<0.00010		0.00010	4226645
Total Sodium (Na)	mg/L	7.4	7.1	4226645	5.6		0.10	4226645
Total Strontium (Sr)	mg/L	0.38	0.37	4226645	0.35		0.0010	4226645
Total Thallium (Tl)	mg/L	<0.000050	<0.000050	4226645	<0.000050		0.000050	4226645
Total Titanium (Ti)	mg/L	<0.0050	<0.0050	4226645	<0.0050		0.0050	4226645
Total Uranium (U)	mg/L	0.00083	0.00085	4226645	0.00085		0.00010	4226645
Total Vanadium (V)	mg/L	<0.00050	<0.00050	4226645	<0.00050		0.00050	4226645
Total Zinc (Zn)	mg/L	0.019	0.020	4226645	<0.0050		0.0050	4226645
Total Zirconium (Zr)	mg/L	<0.0010	<0.0010	4226645	<0.0010		0.0010	4226645

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		BCP424	BCP426	BCP428		BCP430	BCP432		
Sampling Date		2015/10/06 08:00	2015/10/06 14:50	2015/10/06 10:00		2015/10/06 10:00	2015/10/06 14:30		
COC Number		532470-03-01	532470-03-01	532470-03-01		532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-RD05	WG-160900764-2015106-RD06	WG-160900764-2015106-RD07	QC Batch	WG-160900764-2015106-RD08	WG-160900764-2015106-RD09	RDL	QC Batch
Inorganics									
Acidity as CaC03	mg/L	26	NA	19	4223108	17	NA	10	4223108
Total Dissolved Solids	mg/L	378	332	334	4220711	334	232	10	4220711
Fluoride (F-)	mg/L	<0.10	1.2	<0.10	4221004	<0.10	1.5	0.10	4220781
Free Cyanide	ug/L	<2	<2	<2	4221069	<2	<2	2	4221069
Total Organic Carbon (TOC)	mg/L	0.97	8.5	0.82	4227103	0.81	2.6	0.20	4227103
Total Suspended Solids	mg/L	41	53	<10	4220707	<10	43	10	4220707
Turbidity	NTU	39	350	2.1	4221031	7.1	120	0.2	4221031

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		BCP434		BCP435		BCP436		
Sampling Date		2015/10/06 12:10		2015/10/06 12:10		2015/10/06 15:30		
COC Number		532470-03-01		532470-03-01		532470-03-01		
	UNITS	WS-160900764-2015106-RD100	QC Batch	WS-160900764-2015106-RD101	QC Batch	WS-160900764-2015106-RD102	RDL	QC Batch
Inorganics								
Acidity as CaC03	mg/L	32	4223108	32	4223108	57	10	4223108
Total Dissolved Solids	mg/L	532	4220711	542	4220711	546	10	4220711
Fluoride (F-)	mg/L	<0.10	4220781	<0.10	4220781	<0.10	0.10	4221004
Free Cyanide	ug/L	<2	4221074	<2	4221069	<2	2	4221069
Total Suspended Solids	mg/L	<10	4220707	<10	4220707	<10	10	4220707

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		BCP437	BCP438	BCP438	BCP439		BCP440		
Sampling Date		2015/10/06 09:25	2015/10/06 10:21	2015/10/06 10:21	2015/10/06 11:18		2015/10/06 12:18		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01		532470-03-01		
	UNITS	WG-160900764 -2015106-JK9	WG-160900764 -2015106-JK10	WG-160900764 -2015106-JK10 Lab-Dup	WG-160900764 -2015106-JK11	QC Batch	WG-160900764 -2015106JK12	RDL	QC Batch
Inorganics									
Acidity as CaC03	mg/L	29	<10	<10	38	4223108	51	10	4223108
Total Dissolved Solids	mg/L	386	228		472	4220711	614	10	4220711
Fluoride (F-)	mg/L	<0.10	<0.10		<0.10	4220781	<0.10	0.10	4220781
Free Cyanide	ug/L	<2	<2		<2	4221069	<2	2	4221074
Total Organic Carbon (TOC)	mg/L	0.91	1.3		0.93	4227103	1.7	0.20	4227103
Total Suspended Solids	mg/L	<10	<10		<10	4220707	<10	10	4220707
Turbidity	NTU	<0.2	7.0		<0.2	4221031	<0.2	0.2	4221031

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		BCP441	BCP441	BCP442	BCP443		BCP444		
Sampling Date		2015/10/06 12:59	2015/10/06 12:59	2015/10/06 13:34	2015/10/06 14:04		2015/10/06 15:21		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01		532470-03-01		
	UNITS	WG-160900764 -2015106-JK13	WG-160900764 -2015106-JK13 Lab-Dup	WG-160900764 -2015106-JK14	WG-160900764 -2015106-JK15	QC Batch	WG-160900764 -2015106-JK16	RDL	QC Batch
Inorganics									
Acidity as CaC03	mg/L	35		51	<10	4223108	13	10	4223108
Total Dissolved Solids	mg/L	380		530	154	4220711	230	10	4220711
Fluoride (F-)	mg/L	<0.10		<0.10	0.21	4220781	0.11	0.10	4221004
Free Cyanide	ug/L	<2		<2	<2	4221069	<2	2	4221069
Total Organic Carbon (TOC)	mg/L	1.0	0.96	0.95	0.65	4227103	1.2	0.20	4227103
Total Suspended Solids	mg/L	<10		<10	<10	4220707	<10	10	4220707
Turbidity	NTU	<0.2		<0.2	1.7	4221031	9.7	0.2	4221031

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

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Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		BCP444		
Sampling Date		2015/10/06 15:21		
COC Number		532470-03-01		
	UNITS	**WG-160900764-2015106-JK16 Lab-Dup**	**RDL**	**QC Batch**
Inorganics				
Acidity as CaC03	mg/L	12	10	4223108
Total Dissolved Solids	mg/L	238	10	4220711

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		BCP424		BCP426	BCP426		BCP428		
Sampling Date		2015/10/06 08:00		2015/10/06 14:50	2015/10/06 14:50		2015/10/06 10:00		
COC Number		532470-03-01		532470-03-01	532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-RD05	QC Batch	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06 Lab-Dup	QC Batch	WG-160900764-2015106-RD07	RDL	QC Batch
Metals									
Chromium (VI)	ug/L	0.60	4221129	<0.50		4220901	0.90	0.50	4220901
Mercury (Hg)	mg/L	<0.00010	4223923	<0.00010	<0.00010	4222434	<0.00010	0.00010	4223923

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		BCP430	BCP432		BCP434	BCP435		
Sampling Date		2015/10/06 10:00	2015/10/06 14:30		2015/10/06 12:10	2015/10/06 12:10		
COC Number		532470-03-01	532470-03-01		532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-RD08	WG-160900764-2015106-RD09	QC Batch	WS-160900764-2015106-RD100	WS-160900764-2015106-RD101	RDL	QC Batch
Metals								
Chromium (VI)	ug/L	1.0	<0.50	4220901	<0.50	<0.50	0.50	4220901
Mercury (Hg)	mg/L	<0.00010	<0.00010	4222434	<0.00010	<0.00010	0.00010	4223923

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		BCP436	BCP437	BCP438		BCP439		
Sampling Date		2015/10/06 15:30	2015/10/06 09:25	2015/10/06 10:21		2015/10/06 11:18		
COC Number		532470-03-01	532470-03-01	532470-03-01		532470-03-01		
	UNITS	WS-160900764-2015106-RD102	WG-160900764-2015106-JK9	WG-160900764-2015106-JK10	QC Batch	WG-160900764-2015106-JK11	RDL	QC Batch
Metals								
Chromium (VI)	ug/L	<0.50	0.68	<0.50	4220901	<0.50	0.50	4220901
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	4223923	<0.00010	0.00010	4222434

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		BCP440		BCP441		BCP442		
Sampling Date		2015/10/06 12:18		2015/10/06 12:59		2015/10/06 13:34		
COC Number		532470-03-01		532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106JK12	QC Batch	WG-160900764-2015106-JK13	QC Batch	WG-160900764-2015106-JK14	RDL	QC Batch
Metals								
Chromium (VI)	ug/L	<0.50	4221129	0.71	4220901	<0.50	0.50	4220901
Mercury (Hg)	mg/L	<0.00010	4223923	<0.00010	4223923	<0.00010	0.00010	4224284

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		BCP443		BCP444		
Sampling Date		2015/10/06 14:04		2015/10/06 15:21		
COC Number		532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-JK15	QC Batch	WG-160900764-2015106-JK16	RDL	QC Batch
Metals						
Chromium (VI)	ug/L	<0.50	4221129	<0.50	0.50	4221129
Mercury (Hg)	mg/L	<0.00010	4225595	<0.00010	0.00010	4223923

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

MICROBIOLOGY (WATER)

Maxxam ID		BCP437	BCP438	BCP439	BCP440	BCP441	
Sampling Date		2015/10/06 09:25	2015/10/06 10:21	2015/10/06 11:18	2015/10/06 12:18	2015/10/06 12:59	
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01	
	UNITS	WG-160900764 -2015106-JK9	WG-160900764 -2015106-JK10	WG-160900764 -2015106-JK11	WG-160900764 -2015106JK12	WG-160900764 -2015106-JK13	QC Batch
Microbiological							
Background	CFU/100mL	0	29	NDOGT (1)	180	460	4220024
Total Coliforms	CFU/100mL	0	0	NDOGT (1)	6	21	4220024
Escherichia coli	CFU/100mL	0	0	NDOGT (1)	0	0	4220024

QC Batch = Quality Control Batch
(1) NDOGT: No data due to Over Growth for Target Organisms, Total Coliforms and / or E.coli.

Maxxam ID		BCP443	BCP444	
Sampling Date		2015/10/06 14:04	2015/10/06 15:21	
COC Number		532470-03-01	532470-03-01	
	UNITS	WG-160900764 -2015106-JK15	WG-160900764 -2015106-JK16	QC Batch
Microbiological				
Background	CFU/100mL	31	NDOGN (1)	4220024
Total Coliforms	CFU/100mL	0	NDOGN (1)	4220024
Escherichia coli	CFU/100mL	0	NDOGN (1)	4220024

QC Batch = Quality Control Batch
(1) NDOGN: No data due to Over Growth for Non-Target organisms.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 PCBS (WATER)

Maxxam ID		BCP424	BCP426	BCP428	BCP430	BCP432		
Sampling Date		2015/10/06 08:00	2015/10/06 14:50	2015/10/06 10:00	2015/10/06 10:00	2015/10/06 14:30		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-RD05	WG-160900764-2015106-RD06	WG-160900764-2015106-RD07	WG-160900764-2015106-RD08	WG-160900764-2015106-RD09	RDL	QC Batch
PCBs								
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Surrogate Recovery (%)								
Decachlorobiphenyl	%	72	72	72	68	70		4220277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		BCP434	BCP435	BCP436	BCP436	BCP437		
Sampling Date		2015/10/06 12:10	2015/10/06 12:10	2015/10/06 15:30	2015/10/06 15:30	2015/10/06 09:25		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WS-160900764-2015106-RD100	WS-160900764-2015106-RD101	WS-160900764-2015106-RD102	WS-160900764-2015106-RD102 Lab-Dup	WG-160900764-2015106-JK9	RDL	QC Batch
PCBs								
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Surrogate Recovery (%)								
Decachlorobiphenyl	%	75	73	82	76	69		4220277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 PCBS (WATER)

Maxxam ID		BCP438	BCP439	BCP440	BCP441	BCP442		
Sampling Date		2015/10/06 10:21	2015/10/06 11:18	2015/10/06 12:18	2015/10/06 12:59	2015/10/06 13:34		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK10	WG-160900764-2015106-JK11	WG-160900764-2015106JK12	WG-160900764-2015106-JK13	WG-160900764-2015106-JK14	RDL	QC Batch
PCBs								
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4220277
Surrogate Recovery (%)								
Decachlorobiphenyl	%	73	74	74	76	81		4220277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		BCP443	BCP444		
Sampling Date		2015/10/06 14:04	2015/10/06 15:21		
COC Number		532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK15	WG-160900764-2015106-JK16	RDL	QC Batch
PCBs					
Aroclor 1242	ug/L	<0.05	<0.05	0.05	4220277
Aroclor 1248	ug/L	<0.05	<0.05	0.05	4220277
Aroclor 1254	ug/L	<0.05	<0.05	0.05	4220277
Aroclor 1260	ug/L	<0.05	<0.05	0.05	4220277
Total PCB	ug/L	<0.05	<0.05	0.05	4220277
Surrogate Recovery (%)					
Decachlorobiphenyl	%	73	76		4220277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCP424	BCP424	BCP426	BCP428	BCP428		
Sampling Date		2015/10/06 08:00	2015/10/06 08:00	2015/10/06 14:50	2015/10/06 10:00	2015/10/06 10:00		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-RD05	WG-160900764-2015106-RD05 Lab-Dup	WG-160900764-2015106-RD06	WG-160900764-2015106-RD07	WG-160900764-2015106-RD07 Lab-Dup	RDL	QC Batch
BTEX & F1 Hydrocarbons								
F1 (C6-C10)	ug/L	<25	<25	<25	<25		25	4225724
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25		25	4225724
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100		<100	<100	<100	100	4226988
F3 (C16-C34 Hydrocarbons)	ug/L	<200		<200	<200	<200	200	4226988
F4 (C34-C50 Hydrocarbons)	ug/L	<200		<200	<200	<200	200	4226988
Reached Baseline at C50	ug/L	Yes		Yes	Yes	Yes		4226988
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	104	102	104	102			4225724
4-Bromofluorobenzene	%	99	95	98	99			4225724
D10-Ethylbenzene	%	111	114	110	107			4225724
D4-1,2-Dichloroethane	%	96	94	95	97			4225724
o-Terphenyl	%	90		92	91	91		4226988

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCP430	BCP432	BCP434	BCP435	BCP436		
Sampling Date		2015/10/06 10:00	2015/10/06 14:30	2015/10/06 12:10	2015/10/06 12:10	2015/10/06 15:30		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764 -2015106-RD08	WG-160900764 -2015106-RD09	WS-160900764 -2015106-RD100	WS-160900764 -2015106-RD101	WS-160900764 -2015106-RD102	RDL	QC Batch
BTEX & F1 Hydrocarbons								
F1 (C6-C10)	ug/L	<25	<25	<25	<25	<25	25	4225724
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	<25	25	4225724
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	100	4226988
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	4226988
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	4226988
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes		4226988
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	103	106	104	104	105		4225724
4-Bromofluorobenzene	%	99	100	99	95	96		4225724
D10-Ethylbenzene	%	112	112	110	111	111		4225724
D4-1,2-Dichloroethane	%	99	100	98	99	100		4225724
o-Terphenyl	%	91	95	91	91	91		4226988

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
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Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCP437	BCP438	BCP439	BCP440	BCP441		
Sampling Date		2015/10/06 09:25	2015/10/06 10:21	2015/10/06 11:18	2015/10/06 12:18	2015/10/06 12:59		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK9	WG-160900764-2015106-JK10	WG-160900764-2015106-JK11	WG-160900764-2015106JK12	WG-160900764-2015106-JK13	RDL	QC Batch
BTEX & F1 Hydrocarbons								
F1 (C6-C10)	ug/L	<25	<25	<25	<25	<25	25	4225724
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	<25	25	4225724
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	100	4226988
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	4226988
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	4226988
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes		4226988
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	100	107	102	104	103		4225724
4-Bromofluorobenzene	%	95	99	99	95	94		4225724
D10-Ethylbenzene	%	108	115	109	112	116		4225724
D4-1,2-Dichloroethane	%	102	101	99	100	103		4225724
o-Terphenyl	%	92	94	91	92	91		4226988

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCP442	BCP443	BCP444		
Sampling Date		2015/10/06 13:34	2015/10/06 14:04	2015/10/06 15:21		
COC Number		532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK14	WG-160900764-2015106-JK15	WG-160900764-2015106-JK16	RDL	QC Batch
BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/L	<25	<25	<25	25	4225724
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	4225724
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	4226988
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	4226988
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	4226988
Reached Baseline at C50	ug/L	Yes	Yes	Yes		4226988
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	97	104	104		4225724
4-Bromofluorobenzene	%	98	101	101		4225724
D10-Ethylbenzene	%	111	116	117		4225724
D4-1,2-Dichloroethane	%	108	108	108		4225724
o-Terphenyl	%	91	92	92		4226988

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP424		BCP425		BCP426		
Sampling Date		2015/10/06 08:00		2015/10/06 08:00		2015/10/06 14:50		
COC Number		532470-03-01		532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-RD05	QC Batch	WG-160900764-2015106-RD05A	QC Batch	WG-160900764-2015106-RD06	RDL	QC Batch
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
1-Methylnaphthalene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
2,4,5-Trichlorophenol	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
2,4,6-Trichlorophenol	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
2,4-Dichlorophenol	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
2,4-Dimethylphenol	ug/L	<0.5	4228083	<0.5	4227862	<0.5	0.5	4228083
2,4-Dinitrophenol	ug/L	<2	4228083	<2	4227862	<2	2	4228083
2,4-Dinitrotoluene	ug/L	<0.3	4228083	<0.3	4227862	<0.3	0.3	4228083
2,6-Dinitrotoluene	ug/L	<0.3	4228083	<0.3	4227862	<0.3	0.3	4228083
2-Chlorophenol	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
2-Methylnaphthalene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
3,3'-Dichlorobenzidine	ug/L	<0.5	4228083	<0.5	4227862	<0.5	0.5	4228083
Acenaphthene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
Acenaphthylene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
Anthracene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Benzo(a)anthracene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Benzo(a)pyrene	ug/L	<0.01	4228083	<0.01	4227862	<0.01	0.01	4228083
Benzo(b/j)fluoranthene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Benzo(g,h,i)perylene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Benzo(k)fluoranthene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Biphenyl	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Bis(2-chloroethyl)ether	ug/L	<0.5	4228083	<0.5	4227862	<0.5	0.5	4228083
Bis(2-chloroisopropyl)ether	ug/L	<0.5	4228083	<0.5	4227862	<0.5	0.5	4228083
Bis(2-ethylhexyl)phthalate	ug/L	<1	4228083	<1	4227862	<1	1	4228083
Chrysene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Dibenz(a,h)anthracene	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Diethyl phthalate	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Dimethyl phthalate	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Fluoranthene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
Fluorene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Naphthalene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP424		BCP425		BCP426		
Sampling Date		2015/10/06 08:00		2015/10/06 08:00		2015/10/06 14:50		
COC Number		532470-03-01		532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-RD05	QC Batch	WG-160900764-2015106-RD05A	QC Batch	WG-160900764-2015106-RD06	RDL	QC Batch
p-Chloroaniline	ug/L	<1	4228083	<1	4227862	<1	1	4228083
Pentachlorophenol	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Phenanthrene	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Phenol	ug/L	<0.5	4228083	<0.5	4227862	<0.5	0.5	4228083
Pyrene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	4219654	<0.28	4219654	<0.28	0.28	4219654
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	83	4228083	66	4227862	43 (1)		4228083
2-Fluorobiphenyl	%	42 (1)	4228083	47 (1)	4227862	47 (1)		4228083
D14-Terphenyl (FS)	%	92	4228083	19 (1)	4227862	88		4228083
D5-Nitrobenzene	%	63	4228083	53	4227862	71		4228083

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
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Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP427		BCP428		BCP429		
Sampling Date		2015/10/06 14:50		2015/10/06 10:00		2015/10/06 10:00		
COC Number		532470-03-01		532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-RD06A	QC Batch	WG-160900764-2015106-RD07	QC Batch	WG-160900764-2015106-RD07A	RDL	QC Batch
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	4227862	<0.1	4228083	<0.1	0.1	4227862
1-Methylnaphthalene	ug/L	<0.2	4227862	<0.2	4228083	<0.2	0.2	4227862
2,4,5-Trichlorophenol	ug/L	<0.2	4227862	<0.2	4228083	<0.2	0.2	4227862
2,4,6-Trichlorophenol	ug/L	<0.2	4227862	<0.2	4228083	<0.2	0.2	4227862
2,4-Dichlorophenol	ug/L	<0.1	4227862	<0.1	4228083	<0.1	0.1	4227862
2,4-Dimethylphenol	ug/L	<0.5	4227862	<0.5	4228083	<0.5	0.5	4227862
2,4-Dinitrophenol	ug/L	<2	4227862	<2	4228083	<2	2	4227862
2,4-Dinitrotoluene	ug/L	<0.3	4227862	<0.3	4228083	<0.3	0.3	4227862
2,6-Dinitrotoluene	ug/L	<0.3	4227862	<0.3	4228083	<0.3	0.3	4227862
2-Chlorophenol	ug/L	<0.1	4227862	<0.1	4228083	<0.1	0.1	4227862
2-Methylnaphthalene	ug/L	<0.2	4227862	<0.2	4228083	<0.2	0.2	4227862
3,3'-Dichlorobenzidine	ug/L	<0.5	4227862	<0.5	4228083	<0.5	0.5	4227862
Acenaphthene	ug/L	<0.2	4227862	<0.2	4228083	<0.2	0.2	4227862
Acenaphthylene	ug/L	<0.2	4227862	<0.2	4228083	<0.2	0.2	4227862
Anthracene	ug/L	<0.05	4227862	<0.05	4228083	<0.05	0.05	4227862
Benzo(a)anthracene	ug/L	<0.05	4227862	<0.05	4228083	<0.05	0.05	4227862
Benzo(a)pyrene	ug/L	<0.01	4227862	<0.01	4228083	<0.01	0.01	4227862
Benzo(b/j)fluoranthene	ug/L	<0.05	4227862	<0.05	4228083	<0.05	0.05	4227862
Benzo(g,h,i)perylene	ug/L	<0.05	4227862	<0.05	4228083	<0.05	0.05	4227862
Benzo(k)fluoranthene	ug/L	<0.05	4227862	<0.05	4228083	<0.05	0.05	4227862
Biphenyl	ug/L	<0.1	4227862	<0.1	4228083	<0.1	0.1	4227862
Bis(2-chloroethyl)ether	ug/L	<0.5	4227862	<0.5	4228083	<0.5	0.5	4227862
Bis(2-chloroisopropyl)ether	ug/L	<0.5	4227862	<0.5	4228083	<0.5	0.5	4227862
Bis(2-ethylhexyl)phthalate	ug/L	<1	4227862	<1	4228083	<1	1	4227862
Chrysene	ug/L	<0.05	4227862	<0.05	4228083	<0.05	0.05	4227862
Dibenz(a,h)anthracene	ug/L	<0.1	4227862	<0.1	4228083	<0.1	0.1	4227862
Diethyl phthalate	ug/L	<0.1	4227862	<0.1	4228083	<0.1	0.1	4227862
Dimethyl phthalate	ug/L	<0.1	4227862	<0.1	4228083	<0.1	0.1	4227862
Fluoranthene	ug/L	<0.2	4227862	<0.2	4228083	<0.2	0.2	4227862
Fluorene	ug/L	<0.2	4227862	<0.2	4228083	<0.2	0.2	4227862
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	4227862	<0.1	4228083	<0.1	0.1	4227862
Naphthalene	ug/L	<0.2	4227862	<0.2	4228083	<0.2	0.2	4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP427		BCP428		BCP429		
Sampling Date		2015/10/06 14:50		2015/10/06 10:00		2015/10/06 10:00		
COC Number		532470-03-01		532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-RD06A	QC Batch	WG-160900764-2015106-RD07	QC Batch	WG-160900764-2015106-RD07A	RDL	QC Batch
p-Chloroaniline	ug/L	<1	4227862	<1	4228083	<1	1	4227862
Pentachlorophenol	ug/L	<0.1	4227862	<0.1	4228083	<0.1	0.1	4227862
Phenanthrene	ug/L	<0.1	4227862	<0.1	4228083	<0.1	0.1	4227862
Phenol	ug/L	<0.5	4227862	<0.5	4228083	<0.5	0.5	4227862
Pyrene	ug/L	<0.05	4227862	<0.05	4228083	<0.05	0.05	4227862
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	4219654	<0.28	4219654	<0.28	0.28	4219654
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	63	4227862	80	4228083	63		4227862
2-Fluorobiphenyl	%	39 (1)	4227862	43 (1)	4228083	44 (1)		4227862
D14-Terphenyl (FS)	%	6.0 (1)	4227862	94	4228083	21 (1)		4227862
D5-Nitrobenzene	%	54	4227862	63	4228083	46 (1)		4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP430		BCP431		BCP432		
Sampling Date		2015/10/06 10:00		2015/10/06 10:00		2015/10/06 14:30		
COC Number		532470-03-01		532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-RD08	QC Batch	WG-160900764-2015106-RD08A	QC Batch	WG-160900764-2015106-RD09	RDL	QC Batch
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
1-Methylnaphthalene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
2,4,5-Trichlorophenol	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
2,4,6-Trichlorophenol	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
2,4-Dichlorophenol	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
2,4-Dimethylphenol	ug/L	<0.5	4228083	<0.5	4227862	<0.5	0.5	4228083
2,4-Dinitrophenol	ug/L	<2	4228083	<2	4227862	<2	2	4228083
2,4-Dinitrotoluene	ug/L	<0.3	4228083	<0.3	4227862	<0.3	0.3	4228083
2,6-Dinitrotoluene	ug/L	<0.3	4228083	<0.3	4227862	<0.3	0.3	4228083
2-Chlorophenol	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
2-Methylnaphthalene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
3,3'-Dichlorobenzidine	ug/L	<0.5	4228083	<0.5	4227862	<0.5	0.5	4228083
Acenaphthene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
Acenaphthylene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
Anthracene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Benzo(a)anthracene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Benzo(a)pyrene	ug/L	<0.01	4228083	<0.01	4227862	<0.01	0.01	4228083
Benzo(b/j)fluoranthene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Benzo(g,h,i)perylene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Benzo(k)fluoranthene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Biphenyl	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Bis(2-chloroethyl)ether	ug/L	<0.5	4228083	<0.5	4227862	<0.5	0.5	4228083
Bis(2-chloroisopropyl)ether	ug/L	<0.5	4228083	<0.5	4227862	<0.5	0.5	4228083
Bis(2-ethylhexyl)phthalate	ug/L	<1	4228083	<1	4227862	<1	1	4228083
Chrysene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Dibenz(a,h)anthracene	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Diethyl phthalate	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Dimethyl phthalate	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Fluoranthene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
Fluorene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Naphthalene	ug/L	<0.2	4228083	<0.2	4227862	<0.2	0.2	4228083

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP430		BCP431		BCP432		
Sampling Date		2015/10/06 10:00		2015/10/06 10:00		2015/10/06 14:30		
COC Number		532470-03-01		532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-RD08	QC Batch	WG-160900764-2015106-RD08A	QC Batch	WG-160900764-2015106-RD09	RDL	QC Batch
p-Chloroaniline	ug/L	<1	4228083	<1	4227862	<1	1	4228083
Pentachlorophenol	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Phenanthrene	ug/L	<0.1	4228083	<0.1	4227862	<0.1	0.1	4228083
Phenol	ug/L	<0.5	4228083	<0.5	4227862	<0.5	0.5	4228083
Pyrene	ug/L	<0.05	4228083	<0.05	4227862	<0.05	0.05	4228083
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	4219654	<0.28	4219654	<0.28	0.28	4219654
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	87	4228083	76	4227862	67		4228083
2-Fluorobiphenyl	%	70	4228083	60	4227862	55		4228083
D14-Terphenyl (FS)	%	93	4228083	21 (1)	4227862	95		4228083
D5-Nitrobenzene	%	74	4228083	62	4227862	77		4228083

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP433		BCP434	BCP435	BCP436	BCP437		
Sampling Date		2015/10/06 14:30		2015/10/06 12:10	2015/10/06 12:10	2015/10/06 15:30	2015/10/06 09:25		
COC Number		532470-03-01		532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-RD09A	QC Batch	WS-160900764-2015106-RD100	WS-160900764-2015106-RD101	WS-160900764-2015106-RD102	WG-160900764-2015106-JK9	RDL	QC Batch
Semivolatile Organics									
1,2,4-Trichlorobenzene	ug/L	<0.1	4227862	<0.1	<0.1	<0.1	<0.1	0.1	4228083
1-Methylnaphthalene	ug/L	<0.2	4227862	<0.2	<0.2	<0.2	<0.2	0.2	4228083
2,4,5-Trichlorophenol	ug/L	<0.2	4227862	<0.2	<0.2	<0.2	<0.2	0.2	4228083
2,4,6-Trichlorophenol	ug/L	<0.2	4227862	<0.2	<0.2	<0.2	<0.2	0.2	4228083
2,4-Dichlorophenol	ug/L	<0.1	4227862	<0.1	<0.1	<0.1	<0.1	0.1	4228083
2,4-Dimethylphenol	ug/L	<0.5	4227862	<0.5	<0.5	<0.5	<0.5	0.5	4228083
2,4-Dinitrophenol	ug/L	<2	4227862	<2	<2	<2	<2	2	4228083
2,4-Dinitrotoluene	ug/L	<0.3	4227862	<0.3	<0.3	<0.3	<0.3	0.3	4228083
2,6-Dinitrotoluene	ug/L	<0.3	4227862	<0.3	<0.3	<0.3	<0.3	0.3	4228083
2-Chlorophenol	ug/L	<0.1	4227862	<0.1	<0.1	<0.1	<0.1	0.1	4228083
2-Methylnaphthalene	ug/L	<0.2	4227862	<0.2	<0.2	<0.2	<0.2	0.2	4228083
3,3'-Dichlorobenzidine	ug/L	<0.5	4227862	<0.5	<0.5	<0.5	<0.5	0.5	4228083
Acenaphthene	ug/L	<0.2	4227862	<0.2	<0.2	<0.2	<0.2	0.2	4228083
Acenaphthylene	ug/L	<0.2	4227862	<0.2	<0.2	<0.2	<0.2	0.2	4228083
Anthracene	ug/L	<0.05	4227862	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Benzo(a)anthracene	ug/L	<0.05	4227862	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Benzo(a)pyrene	ug/L	<0.01	4227862	<0.01	<0.01	<0.01	<0.01	0.01	4228083
Benzo(b/j)fluoranthene	ug/L	<0.05	4227862	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Benzo(g,h,i)perylene	ug/L	<0.05	4227862	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Benzo(k)fluoranthene	ug/L	<0.05	4227862	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Biphenyl	ug/L	<0.1	4227862	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Bis(2-chloroethyl)ether	ug/L	<0.5	4227862	<0.5	<0.5	<0.5	<0.5	0.5	4228083
Bis(2-chloroisopropyl)ether	ug/L	<0.5	4227862	<0.5	<0.5	<0.5	<0.5	0.5	4228083
Bis(2-ethylhexyl)phthalate	ug/L	<1	4227862	<1	<1	<1	<1	1	4228083
Chrysene	ug/L	<0.05	4227862	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Dibenz(a,h)anthracene	ug/L	<0.1	4227862	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Diethyl phthalate	ug/L	<0.1	4227862	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Dimethyl phthalate	ug/L	<0.1	4227862	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Fluoranthene	ug/L	<0.2	4227862	<0.2	<0.2	<0.2	<0.2	0.2	4228083
Fluorene	ug/L	<0.2	4227862	<0.2	<0.2	<0.2	<0.2	0.2	4228083
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	4227862	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Naphthalene	ug/L	<0.2	4227862	<0.2	<0.2	<0.2	<0.2	0.2	4228083

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP433		BCP434	BCP435	BCP436	BCP437		
Sampling Date		2015/10/06 14:30		2015/10/06 12:10	2015/10/06 12:10	2015/10/06 15:30	2015/10/06 09:25		
COC Number		532470-03-01		532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-RD09A	QC Batch	WS-160900764-2015106-RD100	WS-160900764-2015106-RD101	WS-160900764-2015106-RD102	WG-160900764-2015106-JK9	RDL	QC Batch
p-Chloroaniline	ug/L	<1	4227862	<1	<1	<1	<1	1	4228083
Pentachlorophenol	ug/L	<0.1	4227862	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Phenanthrene	ug/L	<0.1	4227862	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Phenol	ug/L	<0.5	4227862	<0.5	<0.5	<0.5	<0.5	0.5	4228083
Pyrene	ug/L	<0.05	4227862	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	<0.28	4219654	<0.28	<0.28	<0.28	<0.28	0.28	4219654
Surrogate Recovery (%)									
2,4,6-Tribromophenol	%	50	4227862	61	69	82	53		4228083
2-Fluorobiphenyl	%	17 (1)	4227862	45 (1)	51	43 (1)	28 (1)		4228083
D14-Terphenyl (FS)	%	7.1 (1)	4227862	94	94	94	91		4228083
D5-Nitrobenzene	%	30 (1)	4227862	66	72	59	38 (1)		4228083

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP437	BCP438	BCP439	BCP440	BCP441		
Sampling Date		2015/10/06 09:25	2015/10/06 10:21	2015/10/06 11:18	2015/10/06 12:18	2015/10/06 12:59		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK9 Lab-Dup	WG-160900764-2015106-JK10	WG-160900764-2015106-JK11	WG-160900764-2015106JK12	WG-160900764-2015106-JK13	RDL	QC Batch
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4228083
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4228083
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4228083
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4228083
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4228083
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4228083
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	<2	2	4228083
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	4228083
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	4228083
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4228083
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4228083
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4228083
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4228083
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4228083
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	4228083
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4228083
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4228083
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	<1	1	4228083
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4228083
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4228083
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4228083

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP437	BCP438	BCP439	BCP440	BCP441		
Sampling Date		2015/10/06 09:25	2015/10/06 10:21	2015/10/06 11:18	2015/10/06 12:18	2015/10/06 12:59		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK9 Lab-Dup	WG-160900764-2015106-JK10	WG-160900764-2015106-JK11	WG-160900764-2015106JK12	WG-160900764-2015106-JK13	RDL	QC Batch
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4228083
p-Chloroaniline	ug/L	<1	<1	<1	<1	<1	1	4228083
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4228083
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4228083
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4228083
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L		<0.28	<0.28	<0.28	<0.28	0.28	4219654
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	79	62	83	70	68		4228083
2-Fluorobiphenyl	%	48 (1)	31 (1)	75	50	46 (1)		4228083
D14-Terphenyl (FS)	%	90	96	95	95	94		4228083
D5-Nitrobenzene	%	66	41 (1)	79	69	61		4228083

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP442	BCP443	BCP444		BCP812		
Sampling Date		2015/10/06 13:34	2015/10/06 14:04	2015/10/06 15:21		2015/10/06		
COC Number		532470-03-01	532470-03-01	532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-JK14	WG-160900764-2015106-JK15	WG-160900764-2015106-JK16	QC Batch	FILTERED BLANK	RDL	QC Batch
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	4228083	<0.1	0.1	4227862
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	4228083	<0.2	0.2	4227862
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	4228083	<0.2	0.2	4227862
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	4228083	<0.2	0.2	4227862
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	4228083	<0.1	0.1	4227862
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	4228083	<0.5	0.5	4227862
2,4-Dinitrophenol	ug/L	<2	<2	<2	4228083	<2	2	4227862
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	4228083	<0.3	0.3	4227862
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	4228083	<0.3	0.3	4227862
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	4228083	<0.1	0.1	4227862
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	4228083	<0.2	0.2	4227862
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	4228083	<0.5	0.5	4227862
Acenaphthene	ug/L	<0.2	<0.2	<0.2	4228083	<0.2	0.2	4227862
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	4228083	<0.2	0.2	4227862
Anthracene	ug/L	<0.05	<0.05	<0.05	4228083	<0.05	0.05	4227862
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	4228083	<0.05	0.05	4227862
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	4228083	<0.01	0.01	4227862
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	4228083	<0.05	0.05	4227862
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	4228083	<0.05	0.05	4227862
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	4228083	<0.05	0.05	4227862
Biphenyl	ug/L	<0.1	<0.1	<0.1	4228083	<0.1	0.1	4227862
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	4228083	<0.5	0.5	4227862
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	4228083	<0.5	0.5	4227862
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	4228083	<1	1	4227862
Chrysene	ug/L	<0.05	<0.05	<0.05	4228083	<0.05	0.05	4227862
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	4228083	<0.1	0.1	4227862
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	4228083	<0.1	0.1	4227862
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	4228083	<0.1	0.1	4227862
Fluoranthene	ug/L	<0.2	<0.2	<0.2	4228083	<0.2	0.2	4227862
Fluorene	ug/L	<0.2	<0.2	<0.2	4228083	<0.2	0.2	4227862
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	4228083	<0.1	0.1	4227862
Naphthalene	ug/L	<0.2	<0.2	<0.2	4228083	<0.2	0.2	4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP442	BCP443	BCP444		BCP812		
Sampling Date		2015/10/06 13:34	2015/10/06 14:04	2015/10/06 15:21		2015/10/06		
COC Number		532470-03-01	532470-03-01	532470-03-01		532470-03-01		
	UNITS	WG-160900764-2015106-JK14	WG-160900764-2015106-JK15	WG-160900764-2015106-JK16	QC Batch	FILTERED BLANK	RDL	QC Batch
p-Chloroaniline	ug/L	<1	<1	<1	4228083	<1	1	4227862
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	4228083	<0.1	0.1	4227862
Phenanthrene	ug/L	<0.1	<0.1	<0.1	4228083	<0.1	0.1	4227862
Phenol	ug/L	<0.5	<0.5	<0.5	4228083	<0.5	0.5	4227862
Pyrene	ug/L	<0.05	<0.05	<0.05	4228083	<0.05	0.05	4227862
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	4219654	<0.28	0.28	4219654
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	85	86	86	4228083	72		4227862
2-Fluorobiphenyl	%	42 (1)	69	58	4228083	55		4227862
D14-Terphenyl (FS)	%	93	95	94	4228083	24 (1)		4227862
D5-Nitrobenzene	%	54	68	63	4228083	62		4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP814		
Sampling Date		2015/10/06		
COC Number		532470-03-01		
	UNITS	FILTERED SPIKE	RDL	QC Batch
Semivolatile Organics				
1,2,4-Trichlorobenzene	ug/L	41	1	4227862
1-Methylnaphthalene	ug/L	67	1	4227862
2,4,5-Trichlorophenol	ug/L	83	1	4227862
2,4,6-Trichlorophenol	ug/L	81	1	4227862
2,4-Dichlorophenol	ug/L	74	1	4227862
2,4-Dimethylphenol	ug/L	53	1	4227862
2,4-Dinitrophenol	ug/L	2 (1)	1	4227862
2,4-Dinitrotoluene	ug/L	84	1	4227862
2,6-Dinitrotoluene	ug/L	82	1	4227862
2-Chlorophenol	ug/L	67	1	4227862
2-Methylnaphthalene	ug/L	61	1	4227862
3,3'-Dichlorobenzidine	ug/L	91	1	4227862
Acenaphthene	ug/L	76	1	4227862
Acenaphthylene	ug/L	75	1	4227862
Anthracene	ug/L	50 (1)	1	4227862
Benzo(a)anthracene	ug/L	26 (1)	1	4227862
Benzo(a)pyrene	ug/L	18 (1)	1	4227862
Benzo(b/j)fluoranthene	ug/L	24 (1)	1	4227862
Benzo(g,h,i)perylene	ug/L	12 (1)	1	4227862
Benzo(k)fluoranthene	ug/L	22 (1)	1	4227862
Biphenyl	ug/L	69	1	4227862
Bis(2-chloroethyl)ether	ug/L	75	1	4227862
Bis(2-chloroisopropyl)ether	ug/L	65	1	4227862
Bis(2-ethylhexyl)phthalate	ug/L	42 (1)	1	4227862
Chrysene	ug/L	21 (1)	1	4227862
Dibenz(a,h)anthracene	ug/L	12 (1)	1	4227862
Diethyl phthalate	ug/L	82	1	4227862
Dimethyl phthalate	ug/L	86	1	4227862
Fluoranthene	ug/L	58	1	4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCP814		
Sampling Date		2015/10/06		
COC Number		532470-03-01		
	UNITS	**FILTERED SPIKE**	**RDL**	**QC Batch**
Fluorene	ug/L	76	1	4227862
Indeno(1,2,3-cd)pyrene	ug/L	12 (1)	1	4227862
Naphthalene	ug/L	64	1	4227862
p-Chloroaniline	ug/L	87	1	4227862
Pentachlorophenol	ug/L	14 (1)	1	4227862
Phenanthrene	ug/L	71	1	4227862
Phenol	ug/L	31	1	4227862
Pyrene	ug/L	61	1	4227862
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	85		4227862
2-Fluorobiphenyl	%	57		4227862
D14-Terphenyl (FS)	%	35 (1)		4227862
D5-Nitrobenzene	%	73		4227862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCP424	BCP426	BCP426	BCP428	BCP430		
Sampling Date		2015/10/06 08:00	2015/10/06 14:50	2015/10/06 14:50	2015/10/06 10:00	2015/10/06 10:00		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-RD05	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06 Lab-Dup	WG-160900764-2015106-RD07	WG-160900764-2015106-RD08	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50		<0.50	<0.50	0.50	4219393
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	10	4222160
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222160
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222160
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	4222160
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	4222160
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222160
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4222160
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	4222160
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	<10	10	4222160
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCP424	BCP426	BCP426	BCP428	BCP430		
Sampling Date		2015/10/06 08:00	2015/10/06 14:50	2015/10/06 14:50	2015/10/06 10:00	2015/10/06 10:00		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	**WG-160900764 -2015106-RD05**	**WG-160900764 -2015106-RD06**	**WG-160900764 -2015106-RD06 Lab-Dup**	**WG-160900764 -2015106-RD07**	**WG-160900764 -2015106-RD08**	**RDL**	**QC Batch**
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Toluene	ug/L	<0.20	0.20	0.20	<0.20	<0.20	0.20	4222160
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	96	97	98	97	95		4222160
D4-1,2-Dichloroethane	%	106	106	108	108	105		4222160
D8-Toluene	%	99	98	97	96	98		4222160

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCP432	BCP434	BCP435	BCP436	BCP437		
Sampling Date		2015/10/06 14:30	2015/10/06 12:10	2015/10/06 12:10	2015/10/06 15:30	2015/10/06 09:25		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-RD09	WS-160900764-2015106-RD100	WS-160900764-2015106-RD101	WS-160900764-2015106-RD102	WG-160900764-2015106-JK9	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4219393
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	10	4222160
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222160
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222160
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	4222160
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	4222160
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222160
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4222160
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	4222160
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	<10	10	4222160
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCP432	BCP434	BCP435	BCP436	BCP437		
Sampling Date		2015/10/06 14:30	2015/10/06 12:10	2015/10/06 12:10	2015/10/06 15:30	2015/10/06 09:25		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-RD09	WS-160900764-2015106-RD100	WS-160900764-2015106-RD101	WS-160900764-2015106-RD102	WG-160900764-2015106-JK9	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	97	96	94	97	96		4222160
D4-1,2-Dichloroethane	%	106	106	109	109	109		4222160
D8-Toluene	%	100	99	95	98	97		4222160

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCP438	BCP439	BCP440	BCP441	BCP442		
Sampling Date		2015/10/06 10:21	2015/10/06 11:18	2015/10/06 12:18	2015/10/06 12:59	2015/10/06 13:34		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK10	WG-160900764-2015106-JK11	WG-160900764-2015106JK12	WG-160900764-2015106-JK13	WG-160900764-2015106-JK14	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4219393
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	10	4222160
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222160
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222160
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	4222160
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	4222160
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4222160
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4222160
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	4222160
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	<10	10	4222160
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCP438	BCP439	BCP440	BCP441	BCP442		
Sampling Date		2015/10/06 10:21	2015/10/06 11:18	2015/10/06 12:18	2015/10/06 12:59	2015/10/06 13:34		
COC Number		532470-03-01	532470-03-01	532470-03-01	532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK10	WG-160900764-2015106-JK11	WG-160900764-2015106JK12	WG-160900764-2015106-JK13	WG-160900764-2015106-JK14	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
p+m-Xylene	ug/L	0.31	<0.20	<0.20	<0.20	<0.20	0.20	4222160
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Total Xylenes	ug/L	0.31	<0.20	<0.20	<0.20	<0.20	0.20	4222160
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222160
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	96	97	94	98	96		4222160
D4-1,2-Dichloroethane	%	109	105	109	107	109		4222160
D8-Toluene	%	97	97	96	96	99		4222160

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCP443	BCP444		
Sampling Date		2015/10/06 14:04	2015/10/06 15:21		
COC Number		532470-03-01	532470-03-01		
	UNITS	WG-160900764-2015106-JK15	WG-160900764-2015106-JK16	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	4219393
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	4222160
Benzene	ug/L	<0.20	<0.20	0.20	4222160
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	4222160
Bromoform	ug/L	<1.0	<1.0	1.0	4222160
Bromomethane	ug/L	<0.50	<0.50	0.50	4222160
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	4222160
Chlorobenzene	ug/L	<0.20	<0.20	0.20	4222160
Chloroform	ug/L	<0.20	<0.20	0.20	4222160
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	4222160
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	4222160
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	4222160
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	4222160
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	4222160
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	4222160
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	4222160
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	4222160
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	4222160
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	4222160
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	4222160
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	4222160
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	4222160
Ethylbenzene	ug/L	<0.20	<0.20	0.20	4222160
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	4222160
Hexane	ug/L	<1.0	<1.0	1.0	4222160
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	4222160
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	4222160
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	4222160
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	4222160
Styrene	ug/L	<0.50	<0.50	0.50	4222160
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	4222160

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCP443	BCP444		
Sampling Date		2015/10/06 14:04	2015/10/06 15:21		
COC Number		532470-03-01	532470-03-01		
	UNITS	**WG-160900764 -2015106-JK15**	**WG-160900764 -2015106-JK16**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	4222160
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	4222160
Toluene	ug/L	<0.20	<0.20	0.20	4222160
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	4222160
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	4222160
Trichloroethylene	ug/L	<0.20	<0.20	0.20	4222160
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	4222160
p+m-Xylene	ug/L	<0.20	<0.20	0.20	4222160
o-Xylene	ug/L	<0.20	<0.20	0.20	4222160
Total Xylenes	ug/L	<0.20	<0.20	0.20	4222160
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	4222160
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	95	96		4222160
D4-1,2-Dichloroethane	%	108	106		4222160
D8-Toluene	%	96	98		4222160

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP424
Sample ID: WG-160900764-2015106-RD05
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220991	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221397	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4221003	N/A	2015/10/07	Surinder Rai
Chromium (VI) in Water	IC	4221129	N/A	2015/10/07	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk
Fluoride	ISE	4221004	2015/10/07	2015/10/08	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4228316	N/A	2015/10/14	John Bowman
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Automated Statchk
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221000	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/07	Li Peng
pH	AT	4221002	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221401	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221398	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/07	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP424 Dup
Sample ID: WG-160900764-2015106-RD05
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/11	Lincoln Ramdahin

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP425
Sample ID: WG-160900764-2015106-RD05A
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCP426
Sample ID: WG-160900764-2015106-RD06
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4231772	N/A	2015/10/17	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4231744	N/A	2015/10/16	Deonarine Ramnarine
Conductivity	AT	4221003	N/A	2015/10/07	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk
Fluoride	ISE	4221004	2015/10/07	2015/10/08	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/15	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4222434	2015/10/08	2015/10/09	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4236357	N/A	2015/10/20	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Automated Statchk
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221000	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4221002	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221401	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4231745	N/A	2015/10/16	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/07	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP426 Dup
Sample ID: WG-160900764-2015106-RD06
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	4222434	2015/10/08	2015/10/09	Magdalena Carlos
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP427
Sample ID: WG-160900764-2015106-RD06A
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCP428
Sample ID: WG-160900764-2015106-RD07
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220991	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221397	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4221003	N/A	2015/10/07	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk
Fluoride	ISE	4221004	2015/10/07	2015/10/08	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4228316	N/A	2015/10/14	John Bowman
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Automated Statchk
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221000	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4221002	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221401	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221398	N/A	2015/10/08	Deonarine Ramnarine

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP428 **Collected:** 2015/10/06
Sample ID: WG-160900764-2015106-RD07 **Shipped:**
Matrix: Water **Received:** 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/07	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP428 Dup **Collected:** 2015/10/06
Sample ID: WG-160900764-2015106-RD07 **Shipped:**
Matrix: Water **Received:** 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk

Maxxam ID: BCP429 **Collected:** 2015/10/06
Sample ID: WG-160900764-2015106-RD07A **Shipped:**
Matrix: Water **Received:** 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCP430 **Collected:** 2015/10/06
Sample ID: WG-160900764-2015106-RD08 **Shipped:**
Matrix: Water **Received:** 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	4222434	2015/10/08	2015/10/09	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4228316	N/A	2015/10/14	John Bowman

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP430
Sample ID: WG-160900764-2015106-RD08
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Automated Statchk
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221360	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP431
Sample ID: WG-160900764-2015106-RD08A
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCP432
Sample ID: WG-160900764-2015106-RD09
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP432
Sample ID: WG-160900764-2015106-RD09
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	4222434	2015/10/08	2015/10/09	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4228316	N/A	2015/10/14	John Bowman
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/15	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/15	Automated Statchk
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221360	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/15	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP433
Sample ID: WG-160900764-2015106-RD09A
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCP434
Sample ID: WS-160900764-2015106-RD100
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP434
Sample ID: WS-160900764-2015106-RD100
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/08	Automated Statchk
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Lab Filtered Metals Analysis by ICP	ICP	4220936	2015/10/07	2015/10/08	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	4226645	N/A	2015/10/13	Cristina Petran
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221360	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/08	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Phosphorus (Colourimetric)	LACH/P	4226783	2015/10/13	2015/10/13	Sarabjit Raina
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP435
Sample ID: WS-160900764-2015106-RD101
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/12	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/08	Automated Statchk
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP435
Sample ID: WS-160900764-2015106-RD101
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Lab Filtered Metals Analysis by ICP	ICP	4220936	2015/10/07	2015/10/08	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	4226645	N/A	2015/10/13	Cristina Petran
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221360	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/08	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Phosphorus (Colourimetric)	LACH/P	4226783	2015/10/13	2015/10/13	Sarabjit Raina
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP436
Sample ID: WS-160900764-2015106-RD102
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220991	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4221003	N/A	2015/10/07	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/12	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk
Fluoride	ISE	4221004	2015/10/07	2015/10/08	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/08	Automated Statchk
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Lab Filtered Metals Analysis by ICP	ICP	4220936	2015/10/07	2015/10/08	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	4226645	N/A	2015/10/13	Cristina Petran
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221360	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/07	Li Peng
pH	AT	4221002	N/A	2015/10/07	Surinder Rai

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP436
Sample ID: WS-160900764-2015106-RD102
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/08	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Phosphorus (Colourimetric)	LACH/P	4226783	2015/10/13	2015/10/13	Sarabjit Raina
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/07	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP436 Dup
Sample ID: WS-160900764-2015106-RD102
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/07	Li Peng
Total Phosphorus (Colourimetric)	LACH/P	4226783	2015/10/13	2015/10/13	Sarabjit Raina

Maxxam ID: BCP437
Sample ID: WG-160900764-2015106-JK9
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/12	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228339	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/14	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/14	Automated Statchk

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP437
Sample ID: WG-160900764-2015106-JK9
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Coliforms/ E. coli, CFU/100mL	PL	4220024	N/A	2015/10/06	Maxima Hermanez
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221360	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/14	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/14	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/14	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP437 Dup
Sample ID: WG-160900764-2015106-JK9
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCP438
Sample ID: WG-160900764-2015106-JK10
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/12	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/14	Automated Statchk

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP438
Sample ID: WG-160900764-2015106-JK10
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228339	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/14	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/14	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	4220024	N/A	2015/10/06	Maxima Hermanez
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/14	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/14	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/14	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP438 Dup
Sample ID: WG-160900764-2015106-JK10
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz

Maxxam ID: BCP439
Sample ID: WG-160900764-2015106-JK11
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP439
Sample ID: WG-160900764-2015106-JK11
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/12	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/13	Barbara Wowk
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	4222434	2015/10/08	2015/10/09	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228339	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/14	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/14	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	4220024	N/A	2015/10/06	Maxima Hermanez
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/14	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/14	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/14	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/14	Karen Hughes

Maxxam ID: BCP440
Sample ID: WG-160900764-2015106JK12
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4221129	N/A	2015/10/07	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/13	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/14	Barbara Wowk
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP440
Sample ID: WG-160900764-2015106JK12
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228339	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/14	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/14	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	4220024	N/A	2015/10/06	Maxima Hermanez
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221360	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/14	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/14	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/14	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP440 Dup
Sample ID: WG-160900764-2015106JK12
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware

Maxxam ID: BCP441
Sample ID: WG-160900764-2015106-JK13
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP441
Sample ID: WG-160900764-2015106-JK13
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/13	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/14	Barbara Wowk
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228339	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/14	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/14	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	4220024	N/A	2015/10/06	Maxima Hermanez
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221360	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/14	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/14	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/14	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/14	Karen Hughes

Maxxam ID: BCP441 Dup
Sample ID: WG-160900764-2015106-JK13
Matrix: Water

Collected: 2015/10/06
Shipped:
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Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov

Maxxam ID: BCP442
Sample ID: WG-160900764-2015106-JK14
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP442
Sample ID: WG-160900764-2015106-JK14
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4220901	N/A	2015/10/08	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/13	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/14	Barbara Wowk
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	4224284	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228339	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/14	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/14	Automated Statchk
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221360	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/14	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/14	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/14	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP442 Dup
Sample ID: WG-160900764-2015106-JK14
Matrix: Water

Collected: 2015/10/06
Shipped:
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Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Analysis by ICPMS (as received)	ICP/MS	4228339	2015/10/14	2015/10/14	Prempal Bhatti

Maxxam ID: BCP443
Sample ID: WG-160900764-2015106-JK15
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP443
Sample ID: WG-160900764-2015106-JK15
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	4220783	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221377	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4220784	N/A	2015/10/08	Surinder Rai
Chromium (VI) in Water	IC	4221129	N/A	2015/10/07	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/13	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/14	Barbara Wowk
Fluoride	ISE	4220781	2015/10/07	2015/10/07	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	4225595	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228339	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/14	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/14	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	4220024	N/A	2015/10/06	Maxima Hermanez
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4220806	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4220786	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221383	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/14	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/14	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221385	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/14	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/08	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP443 Dup
Sample ID: WG-160900764-2015106-JK15
Matrix: Water

Collected: 2015/10/06
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Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov

Maxxam Job #: B5K3284
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP444
Sample ID: WG-160900764-2015106-JK16
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Alkalinity	AT	4220991	N/A	2015/10/07	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4218503	N/A	2015/10/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	4219393	N/A	2015/10/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	4221397	N/A	2015/10/08	Alina Dobreanu
Conductivity	AT	4221003	N/A	2015/10/07	Surinder Rai
Chromium (VI) in Water	IC	4221129	N/A	2015/10/07	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	4221069	N/A	2015/10/08	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4221088	N/A	2015/10/08	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4225724	N/A	2015/10/13	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4226988	2015/10/13	2015/10/14	Barbara Wowk
Fluoride	ISE	4221004	2015/10/07	2015/10/08	Surinder Rai
Hardness (calculated as CaCO3)		4219655	N/A	2015/10/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	4223923	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4228339	2015/10/14	2015/10/14	Prempal Bhatti
Ion Balance (% Difference)	CALC	4218507	N/A	2015/10/14	Automated Statchk
Anion and Cation Sum	CALC	4218508	N/A	2015/10/14	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	4220024	N/A	2015/10/06	Maxima Hermanez
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4221000	N/A	2015/10/08	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4220277	2015/10/07	2015/10/08	Li Peng
pH	AT	4221002	N/A	2015/10/07	Surinder Rai
Orthophosphate	KONE	4221401	N/A	2015/10/08	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4218509	N/A	2015/10/14	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4218510	N/A	2015/10/14	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4221398	N/A	2015/10/08	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4218511	N/A	2015/10/14	Automated Statchk
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/13	Anastasia Hamanov
Total Suspended Solids	BAL	4220707	N/A	2015/10/09	Lu Wang(Alice)
Turbidity	AT	4221031	N/A	2015/10/07	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4222160	N/A	2015/10/10	Karen Hughes

Maxxam ID: BCP444 Dup
Sample ID: WG-160900764-2015106-JK16
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity as CaC03 in liquid		4223108	2015/10/08	2015/10/14	Mary Jo Paz
Total Dissolved Solids	BAL	4220711	N/A	2015/10/09	Gurpreet Kaur

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCP812
Sample ID: FILTERED BLANK
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4219654	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

Maxxam ID: BCP814
Sample ID: FILTERED SPIKE
Matrix: Water

Collected: 2015/10/06
Shipped:
Received: 2015/10/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	4227862	2015/10/14	2015/10/15	Milijana Avramovic

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.7°C
Package 2	7.7°C
Package 3	7.0°C
Package 4	6.7°C
Package 5	6.3°C
Package 6	7.3°C
Package 7	7.0°C
Package 8	9.0°C

ABN Analysis: Samples were filtered and surrogate and spike solutions were added pior to filtration.

Sample BCP424-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCP426-01 : Elevated ion balance was confirmed by re-analysis.

Sample BCP428-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCP430-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCP433-01 : ABN Analysis: High sediment was present in the sample vial. This may have contributed to the low surrogate recoveries reported.

Sample BCP437-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent. Total/Dissolved Chromium < Hexavalent Chromium: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCP438-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCP439-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCP440-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCP441-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent. Total/Dissolved Chromium < Hexavalent Chromium: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCP442-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCP443-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCP444-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

GENERAL COMMENTS

Sample BCP814-01 : ABN Analsyis: Data results are reported as percent recoveries.

Results relate only to the items tested.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
CLARINGTON TS MONTORING/SURFACE
Site Location: WATER/ PRIVATE WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4220277	Decachlorobiphenyl	2015/10/07	76	60 - 130	87	60 - 130	79	%				
4222160	4-Bromofluorobenzene	2015/10/09	98	70 - 130	99	70 - 130	97	%				
4222160	D4-1,2-Dichloroethane	2015/10/09	106	70 - 130	103	70 - 130	104	%				
4222160	D8-Toluene	2015/10/09	103	70 - 130	98	70 - 130	99	%				
4225724	1,4-Difluorobenzene	2015/10/11	102	70 - 130	101	70 - 130	102	%				
4225724	4-Bromofluorobenzene	2015/10/11	97	70 - 130	101	70 - 130	100	%				
4225724	D10-Ethylbenzene	2015/10/11	112	70 - 130	111	70 - 130	108	%				
4225724	D4-1,2-Dichloroethane	2015/10/11	95	70 - 130	98	70 - 130	100	%				
4226988	o-Terphenyl	2015/10/13	92	60 - 130	93	60 - 130	91	%				
4227862	2,4,6-Tribromophenol	2015/10/15	98	50 - 130	90	50 - 130	74	%				
4227862	2-Fluorobiphenyl	2015/10/15	65	50 - 130	62	50 - 130	67	%				
4227862	D14-Terphenyl (FS)	2015/10/15	107	50 - 130	104	50 - 130	106	%				
4227862	D5-Nitrobenzene	2015/10/15	77	50 - 130	78	50 - 130	68	%				
4228083	2,4,6-Tribromophenol	2015/10/15	95	50 - 130	98	50 - 130	82	%				
4228083	2-Fluorobiphenyl	2015/10/15	62	50 - 130	61	50 - 130	73	%				
4228083	D14-Terphenyl (FS)	2015/10/15	94	50 - 130	95	50 - 130	92	%				
4228083	D5-Nitrobenzene	2015/10/15	76	50 - 130	73	50 - 130	79	%				
4220277	Aroclor 1242	2015/10/07					<0.05	ug/L	NC	30		
4220277	Aroclor 1248	2015/10/07					<0.05	ug/L	NC	30		
4220277	Aroclor 1254	2015/10/07					<0.05	ug/L	NC	30		
4220277	Aroclor 1260	2015/10/07	76	60 - 130	72	60 - 130	<0.05	ug/L	NC	30		
4220277	Total PCB	2015/10/07	76	60 - 130	72	60 - 130	<0.05	ug/L	NC	40		
4220707	Total Suspended Solids	2015/10/09					<10	mg/L	NC	25	96	85 - 115
4220711	Total Dissolved Solids	2015/10/09					<10	mg/L	3.4	25	96	90 - 110
4220781	Fluoride (F-)	2015/10/07	106	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
4220783	Alkalinity (Total as CaCO3)	2015/10/07			95	85 - 115	<1.0	mg/L	1.4	25		
4220784	Conductivity	2015/10/08			102	85 - 115	<1.0	umho/cm	0.15	25		
4220786	pH	2015/10/07			101	98 - 103			0.41	N/A		
4220806	Nitrate (N)	2015/10/08	NC	80 - 120	104	80 - 120	<0.10	mg/L	0.92	25		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4220806	Nitrite (N)	2015/10/08	106	80 - 120	94	80 - 120	<0.010	mg/L	NC	25		
4220901	Chromium (VI)	2015/10/08	NC	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
4220936	Dissolved Calcium (Ca)	2015/10/08	NC	80 - 120	102	80 - 120	<0.05	mg/L				
4220936	Dissolved Magnesium (Mg)	2015/10/08	NC	80 - 120	99	80 - 120	<0.05	mg/L				
4220936	Dissolved Potassium (K)	2015/10/08	101	80 - 120	102	80 - 120	<1	mg/L				
4220936	Dissolved Sodium (Na)	2015/10/08	NC	80 - 120	102	80 - 120	<0.5	mg/L				
4220991	Alkalinity (Total as CaCO3)	2015/10/07			96	85 - 115	<1.0	mg/L	1.8	25		
4221000	Nitrate (N)	2015/10/08	NC	80 - 120	102	80 - 120	<0.10	mg/L	0.22	25		
4221000	Nitrite (N)	2015/10/08	105	80 - 120	93	80 - 120	<0.010	mg/L	NC	25		
4221002	pH	2015/10/07			101	98 - 103			0.11	N/A		
4221003	Conductivity	2015/10/07			101	85 - 115	<1.0	umho/cm	0	25		
4221004	Fluoride (F-)	2015/10/08	107	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
4221031	Turbidity	2015/10/07			101	85 - 115	<0.2	NTU	1.0	20		
4221069	Free Cyanide	2015/10/08	102	80 - 120	102	80 - 120	<2	ug/L	NC	20		
4221074	Free Cyanide	2015/10/13	106	80 - 120	105	80 - 120	<2	ug/L	NC	20		
4221088	Dissolved Organic Carbon	2015/10/08	98	80 - 120	100	80 - 120	<0.20	mg/L	NC	20		
4221129	Chromium (VI)	2015/10/07	95	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
4221360	Nitrate (N)	2015/10/08	101	80 - 120	95	80 - 120	<0.10	mg/L	NC	25		
4221360	Nitrite (N)	2015/10/08	107	80 - 120	93	80 - 120	<0.010	mg/L				
4221377	Dissolved Chloride (Cl)	2015/10/08	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.023	20		
4221383	Orthophosphate (P)	2015/10/08	102	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
4221385	Dissolved Sulphate (SO4)	2015/10/08	NC	75 - 125	100	80 - 120	<1.0	mg/L	3.8	20		
4221397	Dissolved Chloride (Cl)	2015/10/08	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.37	20		
4221398	Dissolved Sulphate (SO4)	2015/10/08	NC	75 - 125	101	80 - 120	<1.0	mg/L	0.24	20		
4221401	Orthophosphate (P)	2015/10/08	107	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
4222160	1,1,1,2-Tetrachloroethane	2015/10/10	97	70 - 130	89	70 - 130	<0.50	ug/L	NC	30		
4222160	1,1,1-Trichloroethane	2015/10/10	98	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
4222160	1,1,2,2-Tetrachloroethane	2015/10/10	101	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
4222160	1,1,2-Trichloroethane	2015/10/10	100	70 - 130	90	70 - 130	<0.50	ug/L	NC	30		

Maxxam Job #: B5K3284
Report Date: 2015/10/20

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
CLARINGTON TS MONTORING/SURFACE
Site Location: WATER/ PRIVATE WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4222160	1,1-Dichloroethane	2015/10/10	101	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
4222160	1,1-Dichloroethylene	2015/10/10	105	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
4222160	1,2-Dichlorobenzene	2015/10/10	96	70 - 130	90	70 - 130	<0.50	ug/L	NC	30		
4222160	1,2-Dichloroethane	2015/10/10	99	70 - 130	93	70 - 130	<0.50	ug/L	NC	30		
4222160	1,2-Dichloropropane	2015/10/10	98	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
4222160	1,3-Dichlorobenzene	2015/10/10	88	70 - 130	85	70 - 130	<0.50	ug/L	NC	30		
4222160	1,4-Dichlorobenzene	2015/10/10	93	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
4222160	Acetone (2-Propanone)	2015/10/10	126	60 - 140	110	60 - 140	<10	ug/L	NC	30		
4222160	Benzene	2015/10/10	96	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4222160	Bromodichloromethane	2015/10/10	107	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
4222160	Bromoform	2015/10/10	93	70 - 130	83	70 - 130	<1.0	ug/L	NC	30		
4222160	Bromomethane	2015/10/10	100	60 - 140	96	60 - 140	<0.50	ug/L	NC	30		
4222160	Carbon Tetrachloride	2015/10/10	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4222160	Chlorobenzene	2015/10/10	106	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
4222160	Chloroform	2015/10/10	99	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
4222160	cis-1,2-Dichloroethylene	2015/10/10	105	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
4222160	cis-1,3-Dichloropropene	2015/10/10	92	70 - 130	84	70 - 130	<0.30	ug/L	NC	30		
4222160	Dibromochloromethane	2015/10/10	97	70 - 130	87	70 - 130	<0.50	ug/L	NC	30		
4222160	Dichlorodifluoromethane (FREON 12)	2015/10/10	132	60 - 140	126	60 - 140	<1.0	ug/L	NC	30		
4222160	Ethylbenzene	2015/10/10	99	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
4222160	Ethylene Dibromide	2015/10/10	96	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
4222160	Hexane	2015/10/10	104	70 - 130	99	70 - 130	<1.0	ug/L	NC	30		
4222160	Methyl Ethyl Ketone (2-Butanone)	2015/10/10	108	60 - 140	98	60 - 140	<10	ug/L	NC	30		
4222160	Methyl Isobutyl Ketone	2015/10/10	110	70 - 130	99	70 - 130	<5.0	ug/L	NC	30		
4222160	Methyl t-butyl ether (MTBE)	2015/10/10	100	70 - 130	93	70 - 130	<0.50	ug/L	NC	30		
4222160	Methylene Chloride(Dichloromethane)	2015/10/10	111	70 - 130	105	70 - 130	<2.0	ug/L	NC	30		
4222160	o-Xylene	2015/10/10	90	70 - 130	85	70 - 130	<0.20	ug/L	NC	30		
4222160	p+m-Xylene	2015/10/10	82	70 - 130	78	70 - 130	<0.20	ug/L	NC	30		
4222160	Styrene	2015/10/10	90	70 - 130	85	70 - 130	<0.50	ug/L	NC	30		
4222160	Tetrachloroethylene	2015/10/10	89	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
CLARINGTON TS MONTORING/SURFACE
Site Location: WATER/ PRIVATE WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4222160	Toluene	2015/10/10	96	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
4222160	Total Xylenes	2015/10/10					<0.20	ug/L	NC	30		
4222160	trans-1,2-Dichloroethylene	2015/10/10	95	70 - 130	94	70 - 130	<0.50	ug/L	NC	30		
4222160	trans-1,3-Dichloropropene	2015/10/10	97	70 - 130	86	70 - 130	<0.40	ug/L	NC	30		
4222160	Trichloroethylene	2015/10/10	91	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
4222160	Trichlorofluoromethane (FREON 11)	2015/10/10	110	70 - 130	107	70 - 130	<0.50	ug/L	NC	30		
4222160	Vinyl Chloride	2015/10/10	117	70 - 130	115	70 - 130	<0.20	ug/L	NC	30		
4222434	Mercury (Hg)	2015/10/09	111	75 - 125	97	80 - 120	<0.00010	mg/L	NC	20		
4223108	Acidity as CaC03	2015/10/14					<10	mg/L	NC	25		
4223923	Mercury (Hg)	2015/10/13	117	75 - 125	109	80 - 120	<0.00010	mg/L	NC	20		
4224284	Mercury (Hg)	2015/10/13	111	75 - 125	110	80 - 120	<0.00010	mg/L	NC	20		
4225595	Mercury (Hg)	2015/10/13	118	75 - 125	113	80 - 120	<0.00010	mg/L	NC	20		
4225724	F1 (C6-C10) - BTEX	2015/10/11					<25	ug/L	NC	30		
4225724	F1 (C6-C10)	2015/10/11	78	70 - 130	88	70 - 130	<25	ug/L	NC	30		
4225865	Total Ammonia-N	2015/10/14	102	80 - 120	101	85 - 115	<0.050	mg/L	NC	20		
4226645	Total Aluminum (Al)	2015/10/13	98	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20		
4226645	Total Antimony (Sb)	2015/10/13	107	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20		
4226645	Total Arsenic (As)	2015/10/13	99	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
4226645	Total Barium (Ba)	2015/10/13	97	80 - 120	98	80 - 120	<0.0020	mg/L	0.67	20		
4226645	Total Beryllium (Be)	2015/10/13	103	80 - 120	104	80 - 120	<0.00050	mg/L	NC	20		
4226645	Total Boron (B)	2015/10/13	NC	80 - 120	103	80 - 120	<0.010	mg/L	0.73	20		
4226645	Total Cadmium (Cd)	2015/10/13	99	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20		
4226645	Total Calcium (Ca)	2015/10/13	NC	80 - 120	97	80 - 120	<0.20	mg/L	3.3	20		
4226645	Total Chromium (Cr)	2015/10/13	96	80 - 120	96	80 - 120	<0.0050	mg/L	NC	20		
4226645	Total Cobalt (Co)	2015/10/13	101	80 - 120	97	80 - 120	<0.00050	mg/L	NC	20		
4226645	Total Copper (Cu)	2015/10/13	97	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
4226645	Total Iron (Fe)	2015/10/13	97	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		
4226645	Total Lead (Pb)	2015/10/13	91	80 - 120	96	80 - 120	<0.00050	mg/L	0.32	20		
4226645	Total Magnesium (Mg)	2015/10/13	NC	80 - 120	98	80 - 120	<0.050	mg/L	0.21	20		
4226645	Total Manganese (Mn)	2015/10/13	96	80 - 120	98	80 - 120	<0.0020	mg/L	5.3	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4226645	Total Molybdenum (Mo)	2015/10/13	106	80 - 120	100	80 - 120	<0.00050	mg/L	6.9	20		
4226645	Total Nickel (Ni)	2015/10/13	100	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
4226645	Total Phosphorus (P)	2015/10/13	110	80 - 120	102	80 - 120	<0.10	mg/L				
4226645	Total Potassium (K)	2015/10/13	NC	80 - 120	99	80 - 120	<0.20	mg/L	0.20	20		
4226645	Total Selenium (Se)	2015/10/13	95	80 - 120	101	80 - 120	<0.0020	mg/L	NC	20		
4226645	Total Silicon (Si)	2015/10/13	100	80 - 120	97	80 - 120	<0.050	mg/L	3.1	20		
4226645	Total Silver (Ag)	2015/10/13	103	80 - 120	108	80 - 120	<0.00010	mg/L	NC	20		
4226645	Total Sodium (Na)	2015/10/13	NC	80 - 120	98	80 - 120	<0.10	mg/L	1.1	20		
4226645	Total Strontium (Sr)	2015/10/13	NC	80 - 120	97	80 - 120	<0.0010	mg/L	1.2	20		
4226645	Total Thallium (Tl)	2015/10/13	90	80 - 120	95	80 - 120	<0.000050	mg/L	11	20		
4226645	Total Titanium (Ti)	2015/10/13	98	80 - 120	95	80 - 120	<0.0050	mg/L	NC	20		
4226645	Total Uranium (U)	2015/10/13	93	80 - 120	95	80 - 120	<0.00010	mg/L				
4226645	Total Vanadium (V)	2015/10/13	100	80 - 120	97	80 - 120	<0.00050	mg/L	NC	20		
4226645	Total Zinc (Zn)	2015/10/13	91	80 - 120	100	80 - 120	<0.0050	mg/L	2.2	20		
4226645	Total Zirconium (Zr)	2015/10/13	109	80 - 120	101	80 - 120	<0.0010	mg/L				
4226783	Total Phosphorus	2015/10/13	87	80 - 120	95	80 - 120	<0.004	mg/L	NC	20	102	80 - 120
4226988	F2 (C10-C16 Hydrocarbons)	2015/10/13	80	50 - 130	86	60 - 130	<100	ug/L	NC	30		
4226988	F3 (C16-C34 Hydrocarbons)	2015/10/13	83	50 - 130	86	60 - 130	<200	ug/L	NC	30		
4226988	F4 (C34-C50 Hydrocarbons)	2015/10/13	86	50 - 130	89	60 - 130	<200	ug/L	NC	30		
4227103	Total Organic Carbon (TOC)	2015/10/13	98	80 - 120	99	80 - 120	<0.20	mg/L	NC	20		
4227862	1,2,4-Trichlorobenzene	2015/10/15	56	40 - 130	51	40 - 130	<0.1	ug/L	NC	30		
4227862	1-Methylnaphthalene	2015/10/15	82	50 - 130	81	50 - 130	<0.2	ug/L	NC	30		
4227862	2,4,5-Trichlorophenol	2015/10/15	94	50 - 130	94	50 - 130	<0.2	ug/L	NC	30		
4227862	2,4,6-Trichlorophenol	2015/10/15	92	50 - 130	91	50 - 130	<0.2	ug/L	NC	30		
4227862	2,4-Dichlorophenol	2015/10/15	76	50 - 130	76	50 - 130	<0.1	ug/L	NC	30		
4227862	2,4-Dimethylphenol	2015/10/15	68	30 - 130	67	30 - 130	<0.5	ug/L	NC	30		
4227862	2,4-Dinitrophenol	2015/10/15	63	30 - 130	3.5 (1)	30 - 130	<2	ug/L	NC	30		
4227862	2,4-Dinitrotoluene	2015/10/15	96	50 - 130	93	50 - 130	<0.3	ug/L	NC	30		
4227862	2,6-Dinitrotoluene	2015/10/15	93	50 - 130	89	50 - 130	<0.3	ug/L	NC	30		
4227862	2-Chlorophenol	2015/10/15	72	50 - 130	76	50 - 130	<0.1	ug/L	NC	30		

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Stantec Consulting Ltd
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CLARINGTON TS MONTORING/SURFACE
Site Location: WATER/ PRIVATE WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4227862	2-Methylnaphthalene	2015/10/15	75	50 - 130	74	50 - 130	<0.2	ug/L	NC	30		
4227862	3,3'-Dichlorobenzidine	2015/10/15	102	30 - 130	98	30 - 130	<0.5	ug/L	NC	30		
4227862	Acenaphthene	2015/10/15	90	50 - 130	85	50 - 130	<0.2	ug/L	NC	30		
4227862	Acenaphthylene	2015/10/15	86	50 - 130	82	50 - 130	<0.2	ug/L	NC	30		
4227862	Anthracene	2015/10/15	94	50 - 130	90	50 - 130	<0.05	ug/L	NC	30		
4227862	Benzo(a)anthracene	2015/10/15	109	50 - 130	104	50 - 130	<0.05	ug/L	NC	30		
4227862	Benzo(a)pyrene	2015/10/15	102	50 - 130	98	50 - 130	<0.01	ug/L	NC	30		
4227862	Benzo(b/j)fluoranthene	2015/10/15	116	50 - 130	112	50 - 130	<0.05	ug/L	NC	30		
4227862	Benzo(g,h,i)perylene	2015/10/15	88	50 - 130	87	50 - 130	<0.05	ug/L	NC	30		
4227862	Benzo(k)fluoranthene	2015/10/15	112	50 - 130	106	50 - 130	<0.05	ug/L	NC	30		
4227862	Biphenyl	2015/10/15	83	50 - 130	80	50 - 130	<0.1	ug/L	NC	30		
4227862	Bis(2-chloroethyl)ether	2015/10/15	77	50 - 130	80	50 - 130	<0.5	ug/L	NC	30		
4227862	Bis(2-chloroisopropyl)ether	2015/10/15	68	50 - 130	69	50 - 130	<0.5	ug/L	NC	30		
4227862	Bis(2-ethylhexyl)phthalate	2015/10/15	103	50 - 130	98	50 - 130	<1	ug/L	NC	30		
4227862	Chrysene	2015/10/15	107	50 - 130	102	50 - 130	<0.05	ug/L	NC	30		
4227862	Dibenz(a,h)anthracene	2015/10/15	90	50 - 130	89	50 - 130	<0.1	ug/L	NC	30		
4227862	Diethyl phthalate	2015/10/15	90	50 - 130	87	50 - 130	<0.1	ug/L	NC	30		
4227862	Dimethyl phthalate	2015/10/15	96	50 - 130	92	50 - 130	<0.1	ug/L	NC	30		
4227862	Fluoranthene	2015/10/15	107	50 - 130	100	50 - 130	<0.2	ug/L	NC	30		
4227862	Fluorene	2015/10/15	95	50 - 130	90	50 - 130	<0.2	ug/L	NC	30		
4227862	Indeno(1,2,3-cd)pyrene	2015/10/15	88	50 - 130	87	50 - 130	<0.1	ug/L	NC	30		
4227862	Naphthalene	2015/10/15	77	50 - 130	77	50 - 130	<0.2	ug/L	NC	30		
4227862	p-Chloroaniline	2015/10/15	99	30 - 130	95	30 - 130	<1	ug/L	NC	30		
4227862	Pentachlorophenol	2015/10/15	80	50 - 130	33 (1)	50 - 130	<0.1	ug/L	NC	30		
4227862	Phenanthrene	2015/10/15	96	50 - 130	90	50 - 130	<0.1	ug/L	NC	30		
4227862	Phenol	2015/10/15	35	30 - 130	35	30 - 130	<0.5	ug/L	NC	30		
4227862	Pyrene	2015/10/15	120	50 - 130	114	50 - 130	<0.05	ug/L	NC	30		
4228083	1,2,4-Trichlorobenzene	2015/10/15	54	40 - 130	55	40 - 130	<0.1	ug/L	NC	30		
4228083	1-Methylnaphthalene	2015/10/15	76	50 - 130	73	50 - 130	<0.2	ug/L	NC	30		
4228083	2,4,5-Trichlorophenol	2015/10/15	93	50 - 130	92	50 - 130	<0.2	ug/L	NC	30		

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CLARINGTON TS MONTORING/SURFACE
Site Location: WATER/ PRIVATE WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4228083	2,4,6-Trichlorophenol	2015/10/15	87	50 - 130	86	50 - 130	<0.2	ug/L	NC	30		
4228083	2,4-Dichlorophenol	2015/10/15	70	50 - 130	67	50 - 130	<0.1	ug/L	NC	30		
4228083	2,4-Dimethylphenol	2015/10/15	45	30 - 130	65	30 - 130	<0.5	ug/L	NC	30		
4228083	2,4-Dinitrophenol	2015/10/15	61	30 - 130	57	30 - 130	<2	ug/L	NC	30		
4228083	2,4-Dinitrotoluene	2015/10/15	96	50 - 130	95	50 - 130	<0.3	ug/L	NC	30		
4228083	2,6-Dinitrotoluene	2015/10/15	89	50 - 130	89	50 - 130	<0.3	ug/L	NC	30		
4228083	2-Chlorophenol	2015/10/15	73	50 - 130	66	50 - 130	<0.1	ug/L	NC	30		
4228083	2-Methylnaphthalene	2015/10/15	70	50 - 130	67	50 - 130	<0.2	ug/L	NC	30		
4228083	3,3'-Dichlorobenzidine	2015/10/15	84	30 - 130	91	30 - 130	<0.5	ug/L	NC	30		
4228083	Acenaphthene	2015/10/15	81	50 - 130	81	50 - 130	<0.2	ug/L	NC	30		
4228083	Acenaphthylene	2015/10/15	80	50 - 130	79	50 - 130	<0.2	ug/L	NC	30		
4228083	Anthracene	2015/10/15	87	50 - 130	87	50 - 130	<0.05	ug/L	NC	30		
4228083	Benzo(a)anthracene	2015/10/15	98	50 - 130	98	50 - 130	<0.05	ug/L	NC	30		
4228083	Benzo(a)pyrene	2015/10/15	95	50 - 130	98	50 - 130	<0.01	ug/L	NC	30		
4228083	Benzo(b/j)fluoranthene	2015/10/15	99	50 - 130	97	50 - 130	<0.05	ug/L	NC	30		
4228083	Benzo(g,h,i)perylene	2015/10/15	79	50 - 130	80	50 - 130	<0.05	ug/L	NC	30		
4228083	Benzo(k)fluoranthene	2015/10/15	102	50 - 130	101	50 - 130	<0.05	ug/L	NC	30		
4228083	Biphenyl	2015/10/15	75	50 - 130	73	50 - 130	<0.1	ug/L	NC	30		
4228083	Bis(2-chloroethyl)ether	2015/10/15	71	50 - 130	66	50 - 130	<0.5	ug/L	NC	30		
4228083	Bis(2-chloroisopropyl)ether	2015/10/15	65	50 - 130	60	50 - 130	<0.5	ug/L	NC	30		
4228083	Bis(2-ethylhexyl)phthalate	2015/10/15	96	50 - 130	96	50 - 130	<1	ug/L	NC	30		
4228083	Chrysene	2015/10/15	98	50 - 130	97	50 - 130	<0.05	ug/L	NC	30		
4228083	Dibenz(a,h)anthracene	2015/10/15	86	50 - 130	86	50 - 130	<0.1	ug/L	NC	30		
4228083	Diethyl phthalate	2015/10/15	83	50 - 130	82	50 - 130	<0.1	ug/L	NC	30		
4228083	Dimethyl phthalate	2015/10/15	88	50 - 130	87	50 - 130	<0.1	ug/L	NC	30		
4228083	Fluoranthene	2015/10/15	93	50 - 130	92	50 - 130	<0.2	ug/L	NC	30		
4228083	Fluorene	2015/10/15	86	50 - 130	85	50 - 130	<0.2	ug/L	NC	30		
4228083	Indeno(1,2,3-cd)pyrene	2015/10/15	84	50 - 130	83	50 - 130	<0.1	ug/L	NC	30		
4228083	Naphthalene	2015/10/15	72	50 - 130	69	50 - 130	<0.2	ug/L	NC	30		
4228083	p-Chloroaniline	2015/10/15	69	30 - 130	72	30 - 130	<1	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4228083	Pentachlorophenol	2015/10/15	66	50 - 130	84	50 - 130	<0.1	ug/L	NC	30		
4228083	Phenanthrene	2015/10/15	87	50 - 130	88	50 - 130	<0.1	ug/L	NC	30		
4228083	Phenol	2015/10/15	33	30 - 130	32	30 - 130	<0.5	ug/L	NC	30		
4228083	Pyrene	2015/10/15	98	50 - 130	98	50 - 130	<0.05	ug/L	NC	30		
4228316	Dissolved Aluminum (Al)	2015/10/14	103	80 - 120	111	80 - 120	<0.0050	mg/L				
4228316	Dissolved Antimony (Sb)	2015/10/14	102	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20		
4228316	Dissolved Arsenic (As)	2015/10/14	101	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
4228316	Dissolved Barium (Ba)	2015/10/14	94	80 - 120	101	80 - 120	<0.0020	mg/L	4.1	20		
4228316	Dissolved Beryllium (Be)	2015/10/14	98	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4228316	Dissolved Boron (B)	2015/10/14	99	80 - 120	101	80 - 120	0.013, RDL=0.010	mg/L				
4228316	Dissolved Cadmium (Cd)	2015/10/14	100	80 - 120	102	80 - 120	<0.00010	mg/L	NC	20		
4228316	Dissolved Calcium (Ca)	2015/10/14	NC	80 - 120	105	80 - 120	<0.20	mg/L				
4228316	Dissolved Chromium (Cr)	2015/10/14	99	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20		
4228316	Dissolved Cobalt (Co)	2015/10/14	100	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
4228316	Dissolved Copper (Cu)	2015/10/14	95	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
4228316	Dissolved Iron (Fe)	2015/10/14	102	80 - 120	105	80 - 120	<0.10	mg/L				
4228316	Dissolved Lead (Pb)	2015/10/14	95	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4228316	Dissolved Magnesium (Mg)	2015/10/14	NC	80 - 120	108	80 - 120	0.051, RDL=0.050	mg/L				
4228316	Dissolved Manganese (Mn)	2015/10/14	99	80 - 120	104	80 - 120	<0.0020	mg/L				
4228316	Dissolved Molybdenum (Mo)	2015/10/14	106	80 - 120	107	80 - 120	<0.00050	mg/L	3.3	20		
4228316	Dissolved Nickel (Ni)	2015/10/14	96	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
4228316	Dissolved Phosphorus (P)	2015/10/14	106	80 - 120	115	80 - 120	<0.10	mg/L				
4228316	Dissolved Potassium (K)	2015/10/14	100	80 - 120	106	80 - 120	<0.20	mg/L				
4228316	Dissolved Selenium (Se)	2015/10/14	97	80 - 120	98	80 - 120	<0.0020	mg/L	NC	20		
4228316	Dissolved Silicon (Si)	2015/10/14	101	80 - 120	108	80 - 120	<0.050	mg/L				
4228316	Dissolved Silver (Ag)	2015/10/14	97	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20		
4228316	Dissolved Sodium (Na)	2015/10/14	NC	80 - 120	110	80 - 120	0.28, RDL=0.10	mg/L				
4228316	Dissolved Strontium (Sr)	2015/10/14	NC	80 - 120	101	80 - 120	<0.0010	mg/L				

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Site Location: WATER/ PRIVATE WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4228316	Dissolved Thallium (Tl)	2015/10/14	94	80 - 120	99	80 - 120	<0.000050	mg/L	NC	20		
4228316	Dissolved Titanium (Ti)	2015/10/14	99	80 - 120	103	80 - 120	<0.0050	mg/L				
4228316	Dissolved Uranium (U)	2015/10/14	96	80 - 120	98	80 - 120	<0.00010	mg/L				
4228316	Dissolved Vanadium (V)	2015/10/14	101	80 - 120	105	80 - 120	<0.00050	mg/L	NC	20		
4228316	Dissolved Zinc (Zn)	2015/10/14	98	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20		
4228316	Dissolved Zirconium (Zr)	2015/10/14	104	80 - 120	105	80 - 120	<0.0010	mg/L				
4228339	. Aluminum (Al)	2015/10/14	104	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20		
4228339	. Antimony (Sb)	2015/10/14	103	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4228339	. Arsenic (As)	2015/10/14	101	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
4228339	. Barium (Ba)	2015/10/14	97	80 - 120	98	80 - 120	<0.0020	mg/L	1.6	20		
4228339	. Beryllium (Be)	2015/10/14	99	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4228339	. Boron (B)	2015/10/14	98	80 - 120	99	80 - 120	<0.010	mg/L	NC	20		
4228339	. Cadmium (Cd)	2015/10/14	101	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20		
4228339	. Calcium (Ca)	2015/10/14	NC	80 - 120	101	80 - 120	<0.20	mg/L	1.9	20		
4228339	. Chromium (Cr)	2015/10/14	99	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
4228339	. Cobalt (Co)	2015/10/14	100	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4228339	. Copper (Cu)	2015/10/14	95	80 - 120	97	80 - 120	<0.0010	mg/L	1.0	20		
4228339	. Iron (Fe)	2015/10/14	101	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
4228339	. Lead (Pb)	2015/10/14	95	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
4228339	. Magnesium (Mg)	2015/10/14	NC	80 - 120	104	80 - 120	<0.050	mg/L	1.8	20		
4228339	. Manganese (Mn)	2015/10/14	101	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20		
4228339	. Molybdenum (Mo)	2015/10/14	106	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20		
4228339	. Nickel (Ni)	2015/10/14	100	80 - 120	98	80 - 120	0.0016, RDL=0.0010	mg/L	NC	20		
4228339	. Phosphorus (P)	2015/10/14	108	80 - 120	107	80 - 120	<0.10	mg/L	NC	20		
4228339	. Potassium (K)	2015/10/14	104	80 - 120	101	80 - 120	<0.20	mg/L	2.7	20		
4228339	. Selenium (Se)	2015/10/14	97	80 - 120	96	80 - 120	<0.0020	mg/L	NC	20		
4228339	. Silicon (Si)	2015/10/14	103	80 - 120	101	80 - 120	<0.050	mg/L	1.8	20		
4228339	. Silver (Ag)	2015/10/14	98	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20		
4228339	. Sodium (Na)	2015/10/14	NC	80 - 120	105	80 - 120	<0.10	mg/L	0.21	20		

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Client Project #: 160900764
CLARINGTON TS MONTORING/SURFACE
Site Location: WATER/ PRIVATE WELLS
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4228339	. Strontium (Sr)	2015/10/14	NC	80 - 120	98	80 - 120	<0.0010	mg/L	2.8	20		
4228339	. Thallium (Tl)	2015/10/14	95	80 - 120	96	80 - 120	<0.000050	mg/L	NC	20		
4228339	. Titanium (Ti)	2015/10/14	101	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
4228339	. Uranium (U)	2015/10/14	94	80 - 120	94	80 - 120	<0.00010	mg/L	0.16	20		
4228339	. Vanadium (V)	2015/10/14	103	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4228339	. Zinc (Zn)	2015/10/14	99	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
4228339	. Zirconium (Zr)	2015/10/14	105	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
4231744	Dissolved Chloride (Cl)	2015/10/16	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.086	20		
4231745	Dissolved Sulphate (SO4)	2015/10/16	NC	75 - 125	104	80 - 120	<1.0	mg/L	0.0046	20		
4231772	Alkalinity (Total as CaCO3)	2015/10/17			95	85 - 115	<1.0	mg/L	1.1	25		
4236357	Dissolved Aluminum (Al)	2015/10/20	87	80 - 120	94	80 - 120	<0.0050	mg/L	NC	20		
4236357	Dissolved Antimony (Sb)	2015/10/20	104	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
4236357	Dissolved Arsenic (As)	2015/10/20	104	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
4236357	Dissolved Barium (Ba)	2015/10/20	99	80 - 120	97	80 - 120	<0.0020	mg/L	2.0	20		
4236357	Dissolved Beryllium (Be)	2015/10/20	97	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
4236357	Dissolved Boron (B)	2015/10/20	NC	80 - 120	99	80 - 120	<0.010	mg/L	3.1	20		
4236357	Dissolved Cadmium (Cd)	2015/10/20	102	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20		
4236357	Dissolved Calcium (Ca)	2015/10/20	NC	80 - 120	94	80 - 120	<0.20	mg/L	0.98	20		
4236357	Dissolved Chromium (Cr)	2015/10/20	100	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20		
4236357	Dissolved Cobalt (Co)	2015/10/20	100	80 - 120	98	80 - 120	<0.00050	mg/L	NC	20		
4236357	Dissolved Copper (Cu)	2015/10/20	84	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
4236357	Dissolved Iron (Fe)	2015/10/20	100	80 - 120	97	80 - 120	<0.10	mg/L	NC	20		
4236357	Dissolved Lead (Pb)	2015/10/20	96	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4236357	Dissolved Magnesium (Mg)	2015/10/20	NC	80 - 120	97	80 - 120	<0.050	mg/L	2.2	20		
4236357	Dissolved Manganese (Mn)	2015/10/20	99	80 - 120	99	80 - 120	<0.0020	mg/L	0.43	20		
4236357	Dissolved Molybdenum (Mo)	2015/10/20	111	80 - 120	104	80 - 120	<0.00050	mg/L	NC	20		
4236357	Dissolved Nickel (Ni)	2015/10/20	96	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
4236357	Dissolved Phosphorus (P)	2015/10/20	96	80 - 120	96	80 - 120	<0.10	mg/L	NC	20		
4236357	Dissolved Potassium (K)	2015/10/20	NC	80 - 120	95	80 - 120	<0.20	mg/L	0.44	20		
4236357	Dissolved Selenium (Se)	2015/10/20	73 (1)	80 - 120	98	80 - 120	<0.0020	mg/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4236357	Dissolved Silicon (Si)	2015/10/20	92	80 - 120	95	80 - 120	<0.050	mg/L	1.8	20		
4236357	Dissolved Silver (Ag)	2015/10/20	85	80 - 120	95	80 - 120	<0.00010	mg/L	NC	20		
4236357	Dissolved Sodium (Na)	2015/10/20	NC	80 - 120	94	80 - 120	0.19, RDL=0.10	mg/L	0.84	20		
4236357	Dissolved Strontium (Sr)	2015/10/20	NC	80 - 120	102	80 - 120	0.0019, RDL=0.0010	mg/L	2.4	20		
4236357	Dissolved Thallium (Tl)	2015/10/20	95	80 - 120	101	80 - 120	<0.000050	mg/L	NC	20		
4236357	Dissolved Titanium (Ti)	2015/10/20	98	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
4236357	Dissolved Uranium (U)	2015/10/20	105	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20		
4236357	Dissolved Vanadium (V)	2015/10/20	104	80 - 120	98	80 - 120	0.00095, RDL=0.00050	mg/L	NC	20		
4236357	Dissolved Zinc (Zn)	2015/10/20	87	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
4236357	Dissolved Zirconium (Zr)	2015/10/20	115	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K3284
Report Date: 2015/10/20

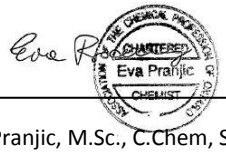
Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS MONTORING/SURFACE WATER/ PRIVATE WELLS
Sampler Initials: RD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Bruce Reynolds, Technical Leader

Cristina Carriere, Scientific Services



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Maxima Hermanez, Senior Analyst

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-Free:(800) 563-6266 Fax:(905) 817-5777 www.maxxam.ca

STANTEC CI

06-Oct-15 18:05
Deepthi Shaji
B5K3284
GK1 ENV-750
C#532448-02-01

Page 1 of 2

Bottle Order #: 532448
Project Manager: Deepthi Shaji

INVOICE INFORMATION:

Company Name: #9197 Stantec Consulting Ltd
Contact Name: Accounts Payable
Address: 49 Frederick St, Kitchener ON N2H 6M7
Phone: (519) 579-4410 Fax: (519) 579-6733
Email: Stantec.Accounts.Payable.Invoices@Stantec.com

REPORT INFORMATION(if differs from invoice):

Company Name: #18379 Stantec Consulting Ltd
Contact Name: Report - 1609-00764
Address: ON
Phone: EDD@stantec.com Fax:
Email: aaron.warkentin@stantec.com, brant.gill@stantec.com,

PROJECT INFORMATION:

Quotation #: B48218
Task #:
Project #: 160900764
Profit Centre:
Site #: CLARINGTON TS-MONITORING
Sampled By: RD + DM

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): [X] Table 1 [ ] Table 2 [ ] Table 3 [ ] Table ___ | [ ] Res/Park [ ] Ind/Comm [ ] Agri/Other | [ ] Medium/Fine [ ] Coarse [ ] For RSC

Other Regulations: [ ] CCME [ ] Reg 558 [ ] MISA [ ] PWQO [ ] Other | [ ] Sanitary Sewer Bylaw [ ] Storm Sewer Bylaw [ ] Municipality

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ [ ]
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Acidity, CrVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	Reg 153 PHC - F1 -F4	Reg 153 PCBs	Reg 153 VOCs	RCAp - Comprehensive (field filtered metals)	SVOC	Lab Filtered SVOCs			# of Bottles	Comments
1		WG-160900764-20151006-RD05	Oct 6/15	800	GW	Y	X	X	X	X	X	X	X				20	
2		WG-160900764-20151006-RD05A		800										X			2	
3		WG-160900764-20151006-RD06		1450		Y	X	X	X	X	X	X	X				20	
4		WG-160900764-20151006-RD06A		1450										X			2	
5		WG-160900764-20151006-RD07		10:00		Y	X	X	X	X	X	X	X				20	
6		WG-160900764-20151006-RD07A		10:00										X			2	
7		WG-160900764-20151006-RD08		10:00		Y	X	X	X	X	X	X	X				20	
8		WG-160900764-20151006-RD08A		10:00										X			2	
9		~~WG-160900764-2015~~ WG-160900764-20151006-RD09		1430		Y	X	X	X	X	X	X	X				20	
10		~~WG-160900764-~~ WG-160900764-20151006-RD09A		1430										X			2	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
	15/10/06	1431	RACHEL DEVLIN	2015/10/06	18:05	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Receipt: 8/2/7 10/7/6 6/7 | 7/6/7 6/6/7 6/7/9

Custody Seal	Yes	No
Present	✓	
Intact	✓	

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxam Yellow: Client

6/5/10 9/8/10

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STANTEC CHAIN OF CUSTODY RECORD

2 of 2

Page ~~1 of 1~~

INVOICE INFORMATION:		REPORT INFORMATION(if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#9197 Stantec Consulting Ltd	Company Name:	#18379 Stantec Consulting Ltd	Quotation #:	B48218	Maxxam Job #:	Bottle Order #:
Contact Name:	Accounts Payable	Contact Name:	Report - 1609-00764	Task #:			532490
Address:	49 Frederick St Kitchener ON N2H 6M7	Address:	ON	Project #:	160900764	COC #:	Project Manager:
Phone:	(519) 579-4410 Fax: (519) 579-6733	Phone:	EDDestantec Fax: on	Profit Centre:		C#532490-01-01	Deepthi Shaji
Email:	Stantec.Accounts.Payable.Invoices@Stantec.com	Email:	aaron.warkentin@stantec.com, brant.gill@stantec.com,	Site #:	CLARINGTON TS-SURFACE WATE		
				Sampled By:	RD + DM		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☒ PWQO ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Acidity, CrVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	Reg 153 PHC - F1-F4	Reg 153 PCBs	Reg 153 VOCs	RCAP - Surface Water(NO FILTER-Total Metals)	SVOCs				# of Bottles	Comments
1		WS-160900764-201510 -RD100	Oct 6/15	1210	SW	Y	X	X	X	X	X	X	X				19	
2		WS-160900764-201510 RD-101	"	1210	"	Y	X	X	X	X	X	X	X				"	
3		WS-160900764-201510 -RD102	"	1330	"	Y	X	X	X	X	X	X	X				"	
4		~~WS-160900764-201510 -~~																
5		~~WS-160900764-201510 -~~																
6																		
7																		
8																		
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
	15/10/06	18:00	RACHEL DEVLIN	2015/10/06	18:05	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
	8/2/17 10/7/16 6/7/8	Present	✓	
	7/6/17 6/6/17 6/7/9	Intact	✓	

6/5/10 9/8/10

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

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STANTEC CHAIN OF CUSTODY RECORD

3 of 3
Page ~~3 of 6~~

INVOICE INFORMATION:		REPORT INFORMATION(if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#9197 Stantec Consulting Ltd	Company Name:	#18379 Stantec Consulting Ltd	Quotation #:	B48218	Maxxam Job #:	Bottle Order #:
Contact Name:	Accounts Payable	Contact Name:	Report - 1609-00764	Task #:			532470
Address:	49 Frederick St Kitchener ON N2H 6M7	Address:	ON	Project #:	160900764	COC #:	Project Manager:
Phone:	(519) 579-4410 Fax: (519) 579-6733	Phone:	CND: eddestantec.com	Profit Centre:		C#532470-03-01	Deepthi Shaji
Email:	Stantec.Accounts.Payable.Invoices@Stantec.com	Email:	aaron.warkentin@stantec.com, brant.gill@stantec.com,	Site #:	CLARINGTON TS-PRIVATE WELLS		
				Sampled By:	JK		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
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(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Acidity, CrVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	Reg 153 PHC - F1-F4	Reg 153 PCBs	Reg 153 VOCs	RCAp - Comp (Drinking Water) - No Filter	SVOCs	E.coli, Total Coliform, Background	# of Bottles	Comments
1		WG-160900764-201510[06]-JK9 OCT 6 2015		0925	WG	NONE	✓	✓	✓	✓	✓	✓	✓	✓	22	These are all
2		WG-160900764-201510[06]-JK10		1021			✓	✓	✓	✓	✓	✓	✓	✓		none reportable
3		WG-160900764-201510[06]-JK11		1118			✓	✓	✓	✓	✓	✓	✓	✓		
4		WG-160900764-201510[06]-JK12		1218			✓	✓	✓	✓	✓	✓	✓	✓		
5		WG-160900764-201510[06]-JK13		1259			✓	✓	✓	✓	✓	✓	✓	✓		
6		WG-160900764-201510[06]-JK14		1334			✓	✓	✓	✓	✓	✓	✓	✓		
7		WG-160900764-201510[06]-JK15		1404			✓	✓	✓	✓	✓	✓	✓	✓		
8		WG-160900764-201510[06]-JK16		1521			✓	✓	✓	✓	✓	✓	✓	✓		
9		~~WG-160900764-201510~~ -														
10		WG-160900764-201510 -														

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
~~JAMIE KOCHOK~~ OK	15/10/06		RACHEL DEVLIN	2015/10/06	18:05	
	15/10/06	1800				

Laboratory Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
	8/2.7 10/7/6 6/7/8	Present	✓	
	7/6/7 6/6/7 6/7/9	Intact	✓	

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxam Yellow: Client

6/5/10 9/8/10

Maxxam Analytics International Corporation o/a Maxxam Analytics

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A Bureau Veritas Group Company

Your P.O. #: 1609
Your Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your C.O.C. #: 532470-04-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/21
Report #: R3727826
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K5099
Received: 2015/10/08, 08:00

Sample Matrix: Water
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	6	N/A	2015/10/21	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	6	2015/10/20	2015/10/21	CAM SOP-00301	EPA 8270 m
Acidity as CaC03 in liquid (1, 2)	6	2015/10/13	2015/10/15	SLA SOP-00100	APHA SM2310B (Mod)
Alkalinity	2	N/A	2015/10/10	CAM SOP-00448	SM 22 2320 B m
Alkalinity	4	N/A	2015/10/13	CAM SOP-00448	SM 22 2320 B m
Carbonate, Bicarbonate and Hydroxide	6	N/A	2015/10/14	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	6	N/A	2015/10/14		EPA 8260C m
Chloride by Automated Colourimetry	6	N/A	2015/10/13	CAM SOP-00463	EPA 325.2 m
Conductivity	2	N/A	2015/10/10	CAM SOP-00414	SM 22 2510 m
Conductivity	4	N/A	2015/10/13	CAM SOP-00414	SM 22 2510 m
Chromium (VI) in Water	6	N/A	2015/10/13	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	6	N/A	2015/10/14	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (3)	6	N/A	2015/10/10	CAM SOP-00446	SM 22 5310 B m
Petroleum Hydro. CCME F1 & BTEX in Water	6	N/A	2015/10/13	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (4)	6	2015/10/14	2015/10/15	CAM SOP-00316	CCME PHC-CWS m
Fluoride	2	2015/10/09	2015/10/10	CAM SOP-00449	SM 22 4500-F C m
Fluoride	4	2015/10/10	2015/10/13	CAM SOP-00449	SM 22 4500-F C m
Hardness (calculated as CaCO3)	6	N/A	2015/10/16	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	5	2015/10/09	2015/10/13	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	1	2015/10/11	2015/10/13	CAM SOP-00453	EPA 7470A m
Metals Analysis by ICPMS (as received) (5)	6	2015/10/14	2015/10/15	CAM SOP-00447	EPA 6020A m
Ion Balance (% Difference)	6	N/A	2015/10/16		
Anion and Cation Sum	6	N/A	2015/10/16		
Total Coliforms/ E. coli, CFU/100mL	7	N/A	2015/10/08	CAM SOP-00551	MOE E3407
Total Ammonia-N	6	N/A	2015/10/15	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (6)	6	N/A	2015/10/13	CAM SOP-00440	SM 22 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	6	2015/10/09	2015/10/13	CAM SOP-00309	EPA 8082A m
pH	2	N/A	2015/10/10	CAM SOP-00413	SM 4500H+ B m
pH	4	N/A	2015/10/13	CAM SOP-00413	SM 4500H+ B m

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Maxxam
A Bureau Veritas Group Company

Your P.O. #: 1609
Your Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your C.O.C. #: 532470-04-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/21
Report #: R3727826
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K5099
Received: 2015/10/08, 08:00

Sample Matrix: Water
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Orthophosphate	6	N/A	2015/10/13	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	6	N/A	2015/10/16		
Sat. pH and Langelier Index (@ 4C)	6	N/A	2015/10/16		
Sulphate by Automated Colourimetry	6	N/A	2015/10/13	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	6	N/A	2015/10/16		
Total Dissolved Solids	6	N/A	2015/10/14	CAM SOP-00428	SM 22 2540C m
Total Organic Carbon (TOC) (7)	6	N/A	2015/10/14	CAM SOP-00446	SM 22 5310B m
Total Suspended Solids	6	N/A	2015/10/13	CAM SOP-00428	SM 22 2540D m
Turbidity	6	N/A	2015/10/10	CAM SOP-00417	SM 22 2130 B m
Volatile Organic Compounds in Water	6	N/A	2015/10/14	CAM SOP000228	EPA 8260C m

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

Maxxam Analytics is accredited for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Sladeview Petrochemical
(2) Sample(s) analyzed using methodologies that have not been subjected to Maxxam's standard validation process for the submitted matrix and is not an Accredited method. Analysis performed with client consent, however results should be viewed with discretion
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
(5) Metals analysis was performed on the sample 'as received'.
(6) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(7) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

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Your P.O. #: 1609
Your Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your C.O.C. #: 532470-04-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/21
Report #: R3727826
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K5099
Received: 2015/10/08, 08:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Deepthi Shaji, Project Manager
Email: dshaji@maxxam.ca
Phone# (905)817-5700 Ext:5807

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCZ440	BCZ440		BCZ441		
Sampling Date		2015/10/07 09:47	2015/10/07 09:47		2015/10/07 10:52		
COC Number		532470-04-01	532470-04-01		532470-04-01		
	UNITS	WG-160900764-20151007-JK17	WG-160900764-20151007-JK17 Lab-Dup	QC Batch	WG-160900764-20151007-JK18	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	5.74		4223115	9.15	N/A	4223115
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	210		4222236	330	1.0	4222236
Calculated TDS	mg/L	320		4222241	500	1.0	4222241
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.2		4222236	1.4	1.0	4222236
Cation Sum	me/L	6.00		4223115	9.43	N/A	4223115
Hardness (CaCO3)	mg/L	290		4222238	400	1.0	4222238
Ion Balance (% Difference)	%	2.25		4223114	1.53	N/A	4223114
Langelier Index (@ 20C)	N/A	0.598		4222239	0.848		4222239
Langelier Index (@ 4C)	N/A	0.349		4222240	0.600		4222240
Saturation pH (@ 20C)	N/A	7.19		4222239	6.82		4222239
Saturation pH (@ 4C)	N/A	7.44		4222240	7.06		4222240
Inorganics							
Total Ammonia-N	mg/L	<0.050		4228650	0.12	0.050	4228650
Conductivity	umho/cm	540		4225697	880	1.0	4225697
Dissolved Organic Carbon	mg/L	0.74		4225383	1.9	0.20	4225383
Orthophosphate (P)	mg/L	<0.010	<0.010	4225680	0.011	0.010	4225794
pH	pH	7.78		4225699	7.66	N/A	4225699
Dissolved Sulphate (SO4)	mg/L	54	54	4225679	22	1.0	4225795
Alkalinity (Total as CaCO3)	mg/L	210		4225696	330	1.0	4225696
Dissolved Chloride (Cl)	mg/L	13	13	4225678	64	1.0	4225792
Nitrite (N)	mg/L	<0.010		4225653	0.043	0.010	4225653
Nitrate (N)	mg/L	<0.10		4225653	4.23	0.10	4225653
Metals							
. Aluminum (Al)	mg/L	<0.0050		4229073	<0.0050	0.0050	4229073
. Antimony (Sb)	mg/L	<0.00050		4229073	<0.00050	0.00050	4229073
. Arsenic (As)	mg/L	<0.0010		4229073	<0.0010	0.0010	4229073
. Barium (Ba)	mg/L	0.045		4229073	0.029	0.0020	4229073
. Beryllium (Be)	mg/L	<0.00050		4229073	<0.00050	0.00050	4229073
. Boron (B)	mg/L	<0.010		4229073	0.030	0.010	4229073
. Cadmium (Cd)	mg/L	<0.00010		4229073	<0.00010	0.00010	4229073

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCZ440	BCZ440		BCZ441		
Sampling Date		2015/10/07 09:47	2015/10/07 09:47		2015/10/07 10:52		
COC Number		532470-04-01	532470-04-01		532470-04-01		
	UNITS	WG-160900764-20151007-JK17	WG-160900764-20151007-JK17 Lab-Dup	QC Batch	WG-160900764-20151007-JK18	RDL	QC Batch
. Calcium (Ca)	mg/L	80		4229073	140	0.20	4229073
. Chromium (Cr)	mg/L	<0.0050		4229073	<0.0050	0.0050	4229073
. Cobalt (Co)	mg/L	<0.00050		4229073	<0.00050	0.00050	4229073
. Copper (Cu)	mg/L	<0.0010		4229073	0.066	0.0010	4229073
. Iron (Fe)	mg/L	1.6		4229073	<0.10	0.10	4229073
. Lead (Pb)	mg/L	<0.00050		4229073	<0.00050	0.00050	4229073
. Magnesium (Mg)	mg/L	21		4229073	15	0.050	4229073
. Manganese (Mn)	mg/L	0.026		4229073	0.0076	0.0020	4229073
. Molybdenum (Mo)	mg/L	0.0030		4229073	<0.00050	0.00050	4229073
. Nickel (Ni)	mg/L	<0.0010		4229073	0.0024	0.0010	4229073
. Phosphorus (P)	mg/L	<0.10		4229073	<0.10	0.10	4229073
. Potassium (K)	mg/L	1.1		4229073	2.5	0.20	4229073
. Selenium (Se)	mg/L	<0.0020		4229073	<0.0020	0.0020	4229073
. Silicon (Si)	mg/L	5.6		4229073	6.4	0.050	4229073
. Silver (Ag)	mg/L	<0.00010		4229073	<0.00010	0.00010	4229073
. Sodium (Na)	mg/L	4.4		4229073	32	0.10	4229073
. Strontium (Sr)	mg/L	0.27		4229073	0.19	0.0010	4229073
. Thallium (Tl)	mg/L	<0.000050		4229073	<0.000050	0.000050	4229073
. Titanium (Ti)	mg/L	<0.0050		4229073	<0.0050	0.0050	4229073
. Uranium (U)	mg/L	0.00076		4229073	0.00037	0.00010	4229073
. Vanadium (V)	mg/L	<0.00050		4229073	<0.00050	0.00050	4229073
. Zinc (Zn)	mg/L	<0.0050		4229073	0.049	0.0050	4229073
. Zirconium (Zr)	mg/L	<0.0010		4229073	<0.0010	0.0010	4229073

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCZ442		BCZ443			BCZ444		
Sampling Date		2015/10/07 11:57		2015/10/07 13:40			2015/10/07 14:20		
COC Number		532470-04-01		532470-04-01			532470-04-01		
	UNITS	WG-160900764-20151007-JK19	QC Batch	WG-160900764-20151007-JK20	RDL	QC Batch	WG-160900764-20151007-JK21	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	5.47	4223115	7.72	N/A	4223115	5.98	N/A	4223115
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	200	4222236	280	1.0	4222236	210	1.0	4222236
Calculated TDS	mg/L	300	4222241	430	1.0	4222241	340	1.0	4222241
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.4	4222236	1.1	1.0	4222236	1.3	1.0	4222236
Cation Sum	me/L	5.75	4223115	7.88	N/A	4223115	6.20	N/A	4223115
Hardness (CaCO3)	mg/L	260	4222238	340	1.0	4222238	290	1.0	4222238
Ion Balance (% Difference)	%	2.50	4223114	0.980	N/A	4223114	1.81	N/A	4223114
Langelier Index (@ 20C)	N/A	0.626	4222239	0.689		4222239	0.660		4222239
Langelier Index (@ 4C)	N/A	0.377	4222240	0.441		4222240	0.411		4222240
Saturation pH (@ 20C)	N/A	7.25	4222239	6.93		4222239	7.16		4222239
Saturation pH (@ 4C)	N/A	7.50	4222240	7.18		4222240	7.41		4222240
Inorganics									
Total Ammonia-N	mg/L	<0.050	4228650	<0.050	0.050	4228650	<0.050	0.050	4228650
Conductivity	umho/cm	520	4225697	760	1.0	4225520	570	1.0	4225697
Dissolved Organic Carbon	mg/L	0.63	4225383	1.1	0.20	4225383	0.71	0.20	4225383
Orthophosphate (P)	mg/L	<0.010	4225794	<0.010	0.010	4225680	<0.010	0.010	4225680
pH	pH	7.88	4225699	7.62	N/A	4225522	7.82	N/A	4225699
Dissolved Sulphate (SO4)	mg/L	55	4225795	17	1.0	4225679	34	1.0	4225679
Alkalinity (Total as CaCO3)	mg/L	200	4225696	280	1.0	4225512	210	1.0	4225696
Dissolved Chloride (Cl)	mg/L	13	4225792	45	1.0	4225678	15	1.0	4225678
Nitrite (N)	mg/L	<0.010	4225707	<0.010	0.010	4225653	<0.010	0.010	4225653
Nitrate (N)	mg/L	<0.10	4225707	5.96	0.10	4225653	8.23	0.50	4225653
Metals									
. Aluminum (Al)	mg/L	<0.0050	4229073	<0.0050	0.0050	4229073	<0.0050	0.0050	4229073
. Antimony (Sb)	mg/L	<0.00050	4229073	<0.00050	0.00050	4229073	<0.00050	0.00050	4229073
. Arsenic (As)	mg/L	<0.0010	4229073	<0.0010	0.0010	4229073	<0.0010	0.0010	4229073
. Barium (Ba)	mg/L	0.082	4229073	0.058	0.0020	4229073	0.054	0.0020	4229073
. Beryllium (Be)	mg/L	<0.00050	4229073	<0.00050	0.00050	4229073	<0.00050	0.00050	4229073
. Boron (B)	mg/L	<0.010	4229073	<0.010	0.010	4229073	<0.010	0.010	4229073
. Cadmium (Cd)	mg/L	<0.00010	4229073	<0.00010	0.00010	4229073	<0.00010	0.00010	4229073
. Calcium (Ca)	mg/L	74	4229073	120	0.20	4229073	86	0.20	4229073

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCZ442		BCZ443			BCZ444		
Sampling Date		2015/10/07 11:57		2015/10/07 13:40			2015/10/07 14:20		
COC Number		532470-04-01		532470-04-01			532470-04-01		
	UNITS	WG-160900764-20151007-JK19	QC Batch	WG-160900764-20151007-JK20	RDL	QC Batch	WG-160900764-20151007-JK21	RDL	QC Batch
. Chromium (Cr)	mg/L	<0.0050	4229073	<0.0050	0.0050	4229073	<0.0050	0.0050	4229073
. Cobalt (Co)	mg/L	<0.00050	4229073	<0.00050	0.00050	4229073	<0.00050	0.00050	4229073
. Copper (Cu)	mg/L	0.0028	4229073	0.0062	0.0010	4229073	0.011	0.0010	4229073
. Iron (Fe)	mg/L	2.6	4229073	<0.10	0.10	4229073	0.66	0.10	4229073
. Lead (Pb)	mg/L	<0.00050	4229073	<0.00050	0.00050	4229073	<0.00050	0.00050	4229073
. Magnesium (Mg)	mg/L	19	4229073	11	0.050	4229073	18	0.050	4229073
. Manganese (Mn)	mg/L	0.063	4229073	<0.0020	0.0020	4229073	0.026	0.0020	4229073
. Molybdenum (Mo)	mg/L	0.0010	4229073	<0.00050	0.00050	4229073	<0.00050	0.00050	4229073
. Nickel (Ni)	mg/L	<0.0010	4229073	<0.0010	0.0010	4229073	<0.0010	0.0010	4229073
. Phosphorus (P)	mg/L	<0.10	4229073	<0.10	0.10	4229073	<0.10	0.10	4229073
. Potassium (K)	mg/L	1.1	4229073	2.1	0.20	4229073	0.89	0.20	4229073
. Selenium (Se)	mg/L	<0.0020	4229073	<0.0020	0.0020	4229073	<0.0020	0.0020	4229073
. Silicon (Si)	mg/L	4.7	4229073	5.6	0.050	4229073	6.7	0.050	4229073
. Silver (Ag)	mg/L	<0.00010	4229073	<0.00010	0.00010	4229073	<0.00010	0.00010	4229073
. Sodium (Na)	mg/L	7.9	4229073	26	0.10	4229073	9.0	0.10	4229073
. Strontium (Sr)	mg/L	0.22	4229073	0.22	0.0010	4229073	0.22	0.0010	4229073
. Thallium (Tl)	mg/L	<0.000050	4229073	<0.000050	0.000050	4229073	<0.000050	0.000050	4229073
. Titanium (Ti)	mg/L	<0.0050	4229073	<0.0050	0.0050	4229073	<0.0050	0.0050	4229073
. Uranium (U)	mg/L	<0.00010	4229073	0.00027	0.00010	4229073	0.00078	0.00010	4229073
. Vanadium (V)	mg/L	<0.00050	4229073	<0.00050	0.00050	4229073	<0.00050	0.00050	4229073
. Zinc (Zn)	mg/L	0.0066	4229073	0.0069	0.0050	4229073	0.011	0.0050	4229073
. Zirconium (Zr)	mg/L	<0.0010	4229073	<0.0010	0.0010	4229073	<0.0010	0.0010	4229073

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCZ445		
Sampling Date		2015/10/07 16:47		
COC Number		532470-04-01		
	UNITS	**WG-160900764 -20151007-JK22**	**RDL**	**QC Batch**
Calculated Parameters				
Anion Sum	me/L	17.1	N/A	4223115
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	270	1.0	4222236
Calculated TDS	mg/L	1000	1.0	4222241
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	4222236
Cation Sum	me/L	17.8	N/A	4223115
Hardness (CaCO3)	mg/L	84	1.0	4222238
Ion Balance (% Difference)	%	2.19	N/A	4223114
Langelier Index (@ 20C)	N/A	-0.474		4222239
Langelier Index (@ 4C)	N/A	-0.720		4222240
Saturation pH (@ 20C)	N/A	7.92		4222239
Saturation pH (@ 4C)	N/A	8.16		4222240
Inorganics				
Total Ammonia-N	mg/L	0.051	0.050	4228655
Conductivity	umho/cm	1900	1.0	4225520
Dissolved Organic Carbon	mg/L	0.86	0.20	4225383
Orthophosphate (P)	mg/L	<0.010	0.010	4225680
pH	pH	7.44	N/A	4225522
Dissolved Sulphate (SO4)	mg/L	39	1.0	4225679
Alkalinity (Total as CaCO3)	mg/L	270	1.0	4225512
Dissolved Chloride (Cl)	mg/L	380	5.0	4225678
Nitrite (N)	mg/L	<0.010	0.010	4225653
Nitrate (N)	mg/L	<0.10	0.10	4225653
Metals				
. Aluminum (Al)	mg/L	<0.0050	0.0050	4229073
. Antimony (Sb)	mg/L	<0.00050	0.00050	4229073
. Arsenic (As)	mg/L	<0.0010	0.0010	4229073
. Barium (Ba)	mg/L	0.025	0.0020	4229073
. Beryllium (Be)	mg/L	<0.00050	0.00050	4229073
. Boron (B)	mg/L	0.018	0.010	4229073
. Cadmium (Cd)	mg/L	<0.00010	0.00010	4229073
. Calcium (Ca)	mg/L	16	0.20	4229073

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BCZ445		
Sampling Date		2015/10/07 16:47		
COC Number		532470-04-01		
	UNITS	**WG-160900764 -20151007-JK22**	**RDL**	**QC Batch**
. Chromium (Cr)	mg/L	<0.0050	0.0050	4229073
. Cobalt (Co)	mg/L	<0.00050	0.00050	4229073
. Copper (Cu)	mg/L	0.022	0.0010	4229073
. Iron (Fe)	mg/L	<0.10	0.10	4229073
. Lead (Pb)	mg/L	<0.00050	0.00050	4229073
. Magnesium (Mg)	mg/L	11	0.050	4229073
. Manganese (Mn)	mg/L	0.0071	0.0020	4229073
. Molybdenum (Mo)	mg/L	<0.00050	0.00050	4229073
. Nickel (Ni)	mg/L	<0.0010	0.0010	4229073
. Phosphorus (P)	mg/L	<0.10	0.10	4229073
. Potassium (K)	mg/L	0.83	0.20	4229073
. Selenium (Se)	mg/L	<0.0020	0.0020	4229073
. Silicon (Si)	mg/L	8.7	0.050	4229073
. Silver (Ag)	mg/L	<0.00010	0.00010	4229073
. Sodium (Na)	mg/L	370	0.10	4229073
. Strontium (Sr)	mg/L	0.060	0.0010	4229073
. Thallium (Tl)	mg/L	<0.000050	0.000050	4229073
. Titanium (Ti)	mg/L	<0.0050	0.0050	4229073
. Uranium (U)	mg/L	<0.00010	0.00010	4229073
. Vanadium (V)	mg/L	<0.00050	0.00050	4229073
. Zinc (Zn)	mg/L	0.025	0.0050	4229073
. Zirconium (Zr)	mg/L	<0.0010	0.0010	4229073

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

RESULTS OF ANALYSES OF WATER

Maxxam ID		BCZ440		BCZ441	BCZ441		BCZ442		
Sampling Date		2015/10/07 09:47		2015/10/07 10:52	2015/10/07 10:52		2015/10/07 11:57		
COC Number		532470-04-01		532470-04-01	532470-04-01		532470-04-01		
	UNITS	WG-160900764-20151007-JK17	QC Batch	WG-160900764-20151007-JK18	WG-160900764-20151007-JK18 Lab-Dup	QC Batch	WG-160900764-20151007-JK19	RDL	QC Batch
Inorganics									
Acidity as CaC03	mg/L	15	4226905	38		4226905	<10	10	4226905
Total Dissolved Solids	mg/L	290	4226745	484		4226745	298	10	4226745
Fluoride (F-)	mg/L	<0.10	4225698	<0.10		4225698	<0.10	0.10	4225698
Free Cyanide	ug/L	<2	4227602	<2		4227602	<2	2	4227602
Total Organic Carbon (TOC)	mg/L	0.71	4228600	1.8	1.8	4228600	0.61	0.20	4228600
Total Suspended Solids	mg/L	<10	4226724	<10		4226724	<10	10	4226724
Turbidity	NTU	20	4225527	0.3		4225510	32	0.2	4225527

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		BCZ443		BCZ444	BCZ444		BCZ445		
Sampling Date		2015/10/07 13:40		2015/10/07 14:20	2015/10/07 14:20		2015/10/07 16:47		
COC Number		532470-04-01		532470-04-01	532470-04-01		532470-04-01		
	UNITS	WG-160900764-20151007-JK20	QC Batch	WG-160900764-20151007-JK21	WG-160900764-20151007-JK21 Lab-Dup	QC Batch	WG-160900764-20151007-JK22	RDL	QC Batch
Inorganics									
Acidity as CaC03	mg/L	25	4226905	12		4226905	26	10	4226905
Total Dissolved Solids	mg/L	426	4226745	316		4226745	956	10	4226745
Fluoride (F-)	mg/L	<0.10	4225521	<0.10		4225698	<0.10	0.10	4225521
Free Cyanide	ug/L	<2	4227602	<2	<2	4227602	<2	2	4227602
Total Organic Carbon (TOC)	mg/L	1.1	4228600	0.64		4228600	0.77	0.20	4228600
Total Suspended Solids	mg/L	<10	4226724	<10		4226724	<10	10	4226724
Turbidity	NTU	<0.2	4225506	0.7	0.9	4225527	0.9	0.2	4225510

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		BCZ440		BCZ441	BCZ442	BCZ443		
Sampling Date		2015/10/07 09:47		2015/10/07 10:52	2015/10/07 11:57	2015/10/07 13:40		
COC Number		532470-04-01		532470-04-01	532470-04-01	532470-04-01		
	UNITS	WG-160900764-20151007-JK17	QC Batch	WG-160900764-20151007-JK18	WG-160900764-20151007-JK19	WG-160900764-20151007-JK20	RDL	QC Batch
Metals								
Chromium (VI)	ug/L	<0.50	4225946	<0.50	<0.50	<0.50	0.50	4225946
Mercury (Hg)	mg/L	<0.00010	4226068	<0.00010	<0.00010	<0.00010	0.00010	4225489

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		BCZ444		BCZ445	BCZ445		
Sampling Date		2015/10/07 14:20		2015/10/07 16:47	2015/10/07 16:47		
COC Number		532470-04-01		532470-04-01	532470-04-01		
	UNITS	WG-160900764-20151007-JK21	QC Batch	WG-160900764-20151007-JK22	WG-160900764-20151007-JK22 Lab-Dup	RDL	QC Batch
Metals							
Chromium (VI)	ug/L	<0.50	4225946	<0.50	<0.50	0.50	4225946
Mercury (Hg)	mg/L	<0.00010	4225489	<0.00010		0.00010	4225595

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K5099
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MICROBIOLOGY (WATER)

Maxxam ID		BCZ440	BCZ441	BCZ442	BCZ443	BCZ444	
Sampling Date		2015/10/07 09:47	2015/10/07 10:52	2015/10/07 11:57	2015/10/07 13:40	2015/10/07 14:20	
COC Number		532470-04-01	532470-04-01	532470-04-01	532470-04-01	532470-04-01	
	UNITS	WG-160900764 -20151007-JK17	WG-160900764 -20151007-JK18	WG-160900764 -20151007-JK19	WG-160900764 -20151007-JK20	WG-160900764 -20151007-JK21	QC Batch
Microbiological							
Background	CFU/100mL	15	0	0	NDOGN (1)	16	4223432
Total Coliforms	CFU/100mL	0	0	0	NDOGN (1)	0	4223432
Escherichia coli	CFU/100mL	0	0	0	NDOGN (1)	0	4223432

QC Batch = Quality Control Batch
(1) NDOGN: No data due to Over Growth for Non-Target organisms.

Maxxam ID		BCZ445	BCZ446	
Sampling Date		2015/10/07 16:47	2015/10/07 12:36	
COC Number		532470-04-01	532470-04-01	
	UNITS	WG-160900764 -20151007-JK22	WG-160900764 -20151007-JK14	QC Batch
Microbiological				
Background	CFU/100mL	58	0	4223432
Total Coliforms	CFU/100mL	52	0	4223432
Escherichia coli	CFU/100mL	0	0	4223432

QC Batch = Quality Control Batch

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

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Your P.O. #: 1609
Sampler Initials: JK

O.REG 153 PCBS (WATER)

Maxxam ID		BCZ440	BCZ441	BCZ442	BCZ443	BCZ443		
Sampling Date		2015/10/07 09:47	2015/10/07 10:52	2015/10/07 11:57	2015/10/07 13:40	2015/10/07 13:40		
COC Number		532470-04-01	532470-04-01	532470-04-01	532470-04-01	532470-04-01		
	UNITS	WG-160900764-20151007-JK17	WG-160900764-20151007-JK18	WG-160900764-20151007-JK19	WG-160900764-20151007-JK20	WG-160900764-20151007-JK20 Lab-Dup	RDL	QC Batch
PCBs								
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4224514
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4224514
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4224514
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4224514
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4224514
Surrogate Recovery (%)								
Decachlorobiphenyl	%	77	84	77	74	80		4224514

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		BCZ444	BCZ445		
Sampling Date		2015/10/07 14:20	2015/10/07 16:47		
COC Number		532470-04-01	532470-04-01		
	UNITS	WG-160900764-20151007-JK21	WG-160900764-20151007-JK22	RDL	QC Batch
PCBs					
Aroclor 1242	ug/L	<0.05	<0.05	0.05	4224514
Aroclor 1248	ug/L	<0.05	<0.05	0.05	4224514
Aroclor 1254	ug/L	<0.05	<0.05	0.05	4224514
Aroclor 1260	ug/L	<0.05	<0.05	0.05	4224514
Total PCB	ug/L	<0.05	<0.05	0.05	4224514
Surrogate Recovery (%)					
Decachlorobiphenyl	%	103	86		4224514

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QC Batch = Quality Control Batch

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O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCZ440	BCZ441	BCZ441	BCZ442	BCZ443		
Sampling Date		2015/10/07 09:47	2015/10/07 10:52	2015/10/07 10:52	2015/10/07 11:57	2015/10/07 13:40		
COC Number		532470-04-01	532470-04-01	532470-04-01	532470-04-01	532470-04-01		
	UNITS	WG-160900764-20151007-JK17	WG-160900764-20151007-JK18	WG-160900764-20151007-JK18 Lab-Dup	WG-160900764-20151007-JK19	WG-160900764-20151007-JK20	RDL	QC Batch
BTEX & F1 Hydrocarbons								
Benzene	ug/L	<0.20	<0.20		<0.20	<0.20	0.20	4226812
Toluene	ug/L	<0.20	<0.20		<0.20	<0.20	0.20	4226812
Ethylbenzene	ug/L	<0.20	<0.20		<0.20	<0.20	0.20	4226812
o-Xylene	ug/L	<0.20	<0.20		<0.20	<0.20	0.20	4226812
p+m-Xylene	ug/L	<0.40	<0.40		<0.40	<0.40	0.40	4226812
Total Xylenes	ug/L	<0.40	<0.40		<0.40	<0.40	0.40	4226812
F1 (C6-C10)	ug/L	<25	<25		<25	<25	25	4226812
F1 (C6-C10) - BTEX	ug/L	<25	<25		<25	<25	25	4226812
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	100	4228470
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	4228470
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	4228470
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes		4228470
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	102	106		104	104		4226812
4-Bromofluorobenzene	%	96	94		94	95		4226812
D10-Ethylbenzene	%	101	106		104	101		4226812
D4-1,2-Dichloroethane	%	103	100		100	105		4226812
o-Terphenyl	%	97	97	97	98	98		4228470

RDL = Reportable Detection Limit
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O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCZ444	BCZ445		
Sampling Date		2015/10/07 14:20	2015/10/07 16:47		
COC Number		532470-04-01	532470-04-01		
	UNITS	**WG-160900764 -20151007-JK21**	**WG-160900764 -20151007-JK22**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons					
Benzene	ug/L	<0.20	<0.20	0.20	4226812
Toluene	ug/L	<0.20	<0.20	0.20	4226812
Ethylbenzene	ug/L	<0.20	<0.20	0.20	4226812
o-Xylene	ug/L	<0.20	<0.20	0.20	4226812
p+m-Xylene	ug/L	<0.40	<0.40	0.40	4226812
Total Xylenes	ug/L	<0.40	<0.40	0.40	4226812
F1 (C6-C10)	ug/L	<25	<25	25	4226812
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	4226812
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	4228470
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	4228470
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	4228470
Reached Baseline at C50	ug/L	Yes	Yes		4228470
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	104	103		4226812
4-Bromofluorobenzene	%	95	95		4226812
D10-Ethylbenzene	%	102	99		4226812
D4-1,2-Dichloroethane	%	102	104		4226812
o-Terphenyl	%	97	97		4228470

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ440	BCZ441	BCZ442	BCZ443	BCZ444		
Sampling Date		2015/10/07 09:47	2015/10/07 10:52	2015/10/07 11:57	2015/10/07 13:40	2015/10/07 14:20		
COC Number		532470-04-01	532470-04-01	532470-04-01	532470-04-01	532470-04-01		
	UNITS	WG-160900764-20151007-JK17	WG-160900764-20151007-JK18	WG-160900764-20151007-JK19	WG-160900764-20151007-JK20	WG-160900764-20151007-JK21	RDL	QC Batch
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4236269
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4236269
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4236269
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4236269
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4236269
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4236269
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	<2	2	4236269
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	4236269
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	4236269
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4236269
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4236269
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4236269
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4236269
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4236269
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4236269
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4236269
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	4236269
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4236269
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4236269
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4236269
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4236269
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4236269
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4236269
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	<1	1	4236269
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4236269
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4236269
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4236269
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4236269
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4236269
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4236269
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4236269
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	4236269

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ440	BCZ441	BCZ442	BCZ443	BCZ444		
Sampling Date		2015/10/07 09:47	2015/10/07 10:52	2015/10/07 11:57	2015/10/07 13:40	2015/10/07 14:20		
COC Number		532470-04-01	532470-04-01	532470-04-01	532470-04-01	532470-04-01		
	UNITS	WG-160900764-20151007-JK17	WG-160900764-20151007-JK18	WG-160900764-20151007-JK19	WG-160900764-20151007-JK20	WG-160900764-20151007-JK21	RDL	QC Batch
p-Chloroaniline	ug/L	<1	<1	<1	<1	<1	1	4236269
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4236269
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4236269
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4236269
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4236269
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	<0.28	0.28	4222147
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	88	70	65	81	53		4236269
2-Fluorobiphenyl	%	70	57	49 (1)	56	52		4236269
D14-Terphenyl (FS)	%	92	94	95	93	94		4236269
D5-Nitrobenzene	%	85	70	61	71	64		4236269

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ445		
Sampling Date		2015/10/07 16:47		
COC Number		532470-04-01		
	UNITS	WG-160900764-20151007-JK22	RDL	QC Batch
Semivolatile Organics				
1,2,4-Trichlorobenzene	ug/L	<0.1	0.1	4236269
1-Methylnaphthalene	ug/L	<0.2	0.2	4236269
2,4,5-Trichlorophenol	ug/L	<0.2	0.2	4236269
2,4,6-Trichlorophenol	ug/L	<0.2	0.2	4236269
2,4-Dichlorophenol	ug/L	<0.1	0.1	4236269
2,4-Dimethylphenol	ug/L	<0.5	0.5	4236269
2,4-Dinitrophenol	ug/L	<2	2	4236269
2,4-Dinitrotoluene	ug/L	<0.3	0.3	4236269
2,6-Dinitrotoluene	ug/L	<0.3	0.3	4236269
2-Chlorophenol	ug/L	<0.1	0.1	4236269
2-Methylnaphthalene	ug/L	<0.2	0.2	4236269
3,3'-Dichlorobenzidine	ug/L	<0.5	0.5	4236269
Acenaphthene	ug/L	<0.2	0.2	4236269
Acenaphthylene	ug/L	<0.2	0.2	4236269
Anthracene	ug/L	<0.05	0.05	4236269
Benzo(a)anthracene	ug/L	<0.05	0.05	4236269
Benzo(a)pyrene	ug/L	<0.01	0.01	4236269
Benzo(b/j)fluoranthene	ug/L	<0.05	0.05	4236269
Benzo(g,h,i)perylene	ug/L	<0.05	0.05	4236269
Benzo(k)fluoranthene	ug/L	<0.05	0.05	4236269
Biphenyl	ug/L	<0.1	0.1	4236269
Bis(2-chloroethyl)ether	ug/L	<0.5	0.5	4236269
Bis(2-chloroisopropyl)ether	ug/L	<0.5	0.5	4236269
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	4236269
Chrysene	ug/L	<0.05	0.05	4236269
Dibenz(a,h)anthracene	ug/L	<0.1	0.1	4236269
Diethyl phthalate	ug/L	<0.1	0.1	4236269
Dimethyl phthalate	ug/L	<0.1	0.1	4236269
Fluoranthene	ug/L	<0.2	0.2	4236269
Fluorene	ug/L	<0.2	0.2	4236269
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	0.1	4236269
Naphthalene	ug/L	<0.2	0.2	4236269

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ445		
Sampling Date		2015/10/07 16:47		
COC Number		532470-04-01		
	UNITS	**WG-160900764 -20151007-JK22**	**RDL**	**QC Batch**
p-Chloroaniline	ug/L	<1	1	4236269
Pentachlorophenol	ug/L	<0.1	0.1	4236269
Phenanthrene	ug/L	<0.1	0.1	4236269
Phenol	ug/L	<0.5	0.5	4236269
Pyrene	ug/L	<0.05	0.05	4236269
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/L	<0.28	0.28	4222147
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	67		4236269
2-Fluorobiphenyl	%	60		4236269
D14-Terphenyl (FS)	%	92		4236269
D5-Nitrobenzene	%	75		4236269
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCZ440	BCZ441	BCZ441	BCZ442	BCZ443		
Sampling Date		2015/10/07 09:47	2015/10/07 10:52	2015/10/07 10:52	2015/10/07 11:57	2015/10/07 13:40		
COC Number		532470-04-01	532470-04-01	532470-04-01	532470-04-01	532470-04-01		
	UNITS	WG-160900764-20151007-JK17	WG-160900764-20151007-JK18	WG-160900764-20151007-JK18 Lab-Dup	WG-160900764-20151007-JK19	WG-160900764-20151007-JK20	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50		<0.50	<0.50	0.50	4222148
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	10	4226142
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4226142
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
Chloroform	ug/L	<0.20	2.5	2.3	0.21	<0.20	0.20	4226142
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4226142
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	4226142
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	4226142
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4226142
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4226142
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	4226142
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	<10	10	4226142
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCZ440	BCZ441	BCZ441	BCZ442	BCZ443		
Sampling Date		2015/10/07 09:47	2015/10/07 10:52	2015/10/07 10:52	2015/10/07 11:57	2015/10/07 13:40		
COC Number		532470-04-01	532470-04-01	532470-04-01	532470-04-01	532470-04-01		
	UNITS	**WG-160900764 -20151007-JK17**	**WG-160900764 -20151007-JK18**	**WG-160900764 -20151007-JK18 Lab-Dup**	**WG-160900764 -20151007-JK19**	**WG-160900764 -20151007-JK20**	**RDL**	**QC Batch**
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4226142
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4226142
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	98	98	98	98	98		4226142
D4-1,2-Dichloroethane	%	98	98	101	99	96		4226142
D8-Toluene	%	102	102	102	102	103		4226142

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCZ444	BCZ445		
Sampling Date		2015/10/07 14:20	2015/10/07 16:47		
COC Number		532470-04-01	532470-04-01		
	UNITS	WG-160900764-20151007-JK21	WG-160900764-20151007-JK22	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	4222148
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	4226142
Benzene	ug/L	<0.20	<0.20	0.20	4226142
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	4226142
Bromoform	ug/L	<1.0	<1.0	1.0	4226142
Bromomethane	ug/L	<0.50	<0.50	0.50	4226142
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	4226142
Chlorobenzene	ug/L	<0.20	<0.20	0.20	4226142
Chloroform	ug/L	<0.20	0.30	0.20	4226142
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	4226142
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	4226142
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	4226142
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	4226142
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	4226142
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	4226142
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	4226142
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	4226142
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	4226142
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	4226142
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	4226142
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	4226142
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	4226142
Ethylbenzene	ug/L	<0.20	<0.20	0.20	4226142
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	4226142
Hexane	ug/L	<1.0	<1.0	1.0	4226142
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	4226142
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	4226142
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	4226142
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	4226142
Styrene	ug/L	<0.50	<0.50	0.50	4226142
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	4226142

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Report Date: 2015/10/21

Stantec Consulting Ltd
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O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCZ444	BCZ445		
Sampling Date		2015/10/07 14:20	2015/10/07 16:47		
COC Number		532470-04-01	532470-04-01		
	UNITS	**WG-160900764 -20151007-JK21**	**WG-160900764 -20151007-JK22**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	4226142
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	4226142
Toluene	ug/L	<0.20	<0.20	0.20	4226142
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	4226142
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	4226142
Trichloroethylene	ug/L	<0.20	<0.20	0.20	4226142
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	4226142
p+m-Xylene	ug/L	<0.20	<0.20	0.20	4226142
o-Xylene	ug/L	<0.20	<0.20	0.20	4226142
Total Xylenes	ug/L	<0.20	<0.20	0.20	4226142
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	4226142
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	97	98		4226142
D4-1,2-Dichloroethane	%	96	96		4226142
D8-Toluene	%	102	103		4226142

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Stantec Consulting Ltd
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Your P.O. #: 1609
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TEST SUMMARY

Maxxam ID: BCZ440
Sample ID: WG-160900764-20151007-JK17
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225696	N/A	2015/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/14	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/14	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225678	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225697	N/A	2015/10/13	Surinder Rai
Chromium (VI) in Water	IC	4225946	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4227602	N/A	2015/10/14	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4225383	N/A	2015/10/10	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4226812	N/A	2015/10/13	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4228470	2015/10/14	2015/10/15	Zhiyue (Frank) Zhu
Fluoride	ISE	4225698	2015/10/10	2015/10/13	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/16	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4226068	2015/10/11	2015/10/13	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	4229073	2015/10/14	2015/10/15	John Bowman
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/16	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/16	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4223432	N/A	2015/10/08	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4228650	N/A	2015/10/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225653	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225699	N/A	2015/10/13	Surinder Rai
Orthophosphate	KONE	4225680	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/16	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/16	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225679	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/16	Ewa Pranjic
Total Dissolved Solids	BAL	4226745	N/A	2015/10/14	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4228600	N/A	2015/10/14	Anastasia Hamanov
Total Suspended Solids	BAL	4226724	N/A	2015/10/13	Bansari Ray
Turbidity	AT	4225527	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4226142	N/A	2015/10/14	Xueming Jiang

Maxxam ID: BCZ440 Dup
Sample ID: WG-160900764-20151007-JK17
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	4225678	N/A	2015/10/13	Deonarine Ramnarine
Orthophosphate	KONE	4225680	N/A	2015/10/13	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	4225679	N/A	2015/10/13	Alina Dobreanu

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
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TEST SUMMARY

Maxxam ID: BCZ441
Sample ID: WG-160900764-20151007-JK18
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225696	N/A	2015/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/14	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/14	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225792	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225697	N/A	2015/10/13	Surinder Rai
Chromium (VI) in Water	IC	4225946	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4227602	N/A	2015/10/14	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4225383	N/A	2015/10/10	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4226812	N/A	2015/10/13	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4228470	2015/10/14	2015/10/15	Zhiyue (Frank) Zhu
Fluoride	ISE	4225698	2015/10/10	2015/10/13	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/16	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4225489	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4229073	2015/10/14	2015/10/15	John Bowman
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/16	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/16	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4223432	N/A	2015/10/08	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4228650	N/A	2015/10/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225653	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225699	N/A	2015/10/13	Surinder Rai
Orthophosphate	KONE	4225794	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/16	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/16	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225795	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/16	Ewa Pranjic
Total Dissolved Solids	BAL	4226745	N/A	2015/10/14	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4228600	N/A	2015/10/14	Anastasia Hamanov
Total Suspended Solids	BAL	4226724	N/A	2015/10/13	Bansari Ray
Turbidity	AT	4225510	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4226142	N/A	2015/10/14	Xueming Jiang

Maxxam ID: BCZ441 Dup
Sample ID: WG-160900764-20151007-JK18
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4228470	2015/10/14	2015/10/15	Zhiyue (Frank) Zhu
Total Organic Carbon (TOC)	TOCV/NDIR	4228600	N/A	2015/10/14	Anastasia Hamanov
Volatile Organic Compounds in Water	GC/MS	4226142	N/A	2015/10/14	Xueming Jiang

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BCZ442
Sample ID: WG-160900764-20151007-JK19
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225696	N/A	2015/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/14	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/14	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225792	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225697	N/A	2015/10/13	Surinder Rai
Chromium (VI) in Water	IC	4225946	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4227602	N/A	2015/10/14	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4225383	N/A	2015/10/10	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4226812	N/A	2015/10/13	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4228470	2015/10/14	2015/10/15	Zhiyue (Frank) Zhu
Fluoride	ISE	4225698	2015/10/10	2015/10/13	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/16	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4225489	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4229073	2015/10/14	2015/10/15	John Bowman
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/16	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/16	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4223432	N/A	2015/10/08	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4228650	N/A	2015/10/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225707	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225699	N/A	2015/10/13	Surinder Rai
Orthophosphate	KONE	4225794	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/16	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/16	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225795	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/16	Ewa Pranjic
Total Dissolved Solids	BAL	4226745	N/A	2015/10/14	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4228600	N/A	2015/10/14	Anastasia Hamanov
Total Suspended Solids	BAL	4226724	N/A	2015/10/13	Bansari Ray
Turbidity	AT	4225527	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4226142	N/A	2015/10/14	Xueming Jiang

Maxxam ID: BCZ443
Sample ID: WG-160900764-20151007-JK20
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BCZ443
Sample ID: WG-160900764-20151007-JK20
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	4225512	N/A	2015/10/10	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/14	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/14	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225678	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225520	N/A	2015/10/10	Surinder Rai
Chromium (VI) in Water	IC	4225946	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4227602	N/A	2015/10/14	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4225383	N/A	2015/10/10	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4226812	N/A	2015/10/13	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4228470	2015/10/14	2015/10/15	Zhiyue (Frank) Zhu
Fluoride	ISE	4225521	2015/10/09	2015/10/10	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/16	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4225489	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4229073	2015/10/14	2015/10/15	John Bowman
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/16	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/16	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4223432	N/A	2015/10/08	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4228650	N/A	2015/10/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225653	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225522	N/A	2015/10/10	Surinder Rai
Orthophosphate	KONE	4225680	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/16	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/16	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225679	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/16	Ewa Pranjic
Total Dissolved Solids	BAL	4226745	N/A	2015/10/14	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4228600	N/A	2015/10/14	Anastasia Hamanov
Total Suspended Solids	BAL	4226724	N/A	2015/10/13	Bansari Ray
Turbidity	AT	4225506	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4226142	N/A	2015/10/14	Xueming Jiang

Maxxam ID: BCZ443 Dup
Sample ID: WG-160900764-20151007-JK20
Matrix: Water

Collected: 2015/10/07
Shipped:
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Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

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Site Location: CLARINGTON TS-PRIVATE WELLS
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TEST SUMMARY

Maxxam ID: BCZ444
Sample ID: WG-160900764-20151007-JK21
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225696	N/A	2015/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/14	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/14	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225678	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225697	N/A	2015/10/13	Surinder Rai
Chromium (VI) in Water	IC	4225946	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4227602	N/A	2015/10/14	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4225383	N/A	2015/10/10	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4226812	N/A	2015/10/13	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4228470	2015/10/14	2015/10/15	Zhiyue (Frank) Zhu
Fluoride	ISE	4225698	2015/10/10	2015/10/13	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/16	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4225489	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4229073	2015/10/14	2015/10/15	John Bowman
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/16	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/16	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4223432	N/A	2015/10/08	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4228650	N/A	2015/10/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225653	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225699	N/A	2015/10/13	Surinder Rai
Orthophosphate	KONE	4225680	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/16	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/16	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225679	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/16	Ewa Pranjic
Total Dissolved Solids	BAL	4226745	N/A	2015/10/14	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4228600	N/A	2015/10/14	Anastasia Hamanov
Total Suspended Solids	BAL	4226724	N/A	2015/10/13	Bansari Ray
Turbidity	AT	4225527	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4226142	N/A	2015/10/14	Xueming Jiang

Maxxam ID: BCZ444 Dup
Sample ID: WG-160900764-20151007-JK21
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH/CN	4227602	N/A	2015/10/14	Christine Pham
Turbidity	AT	4225527	N/A	2015/10/10	Lemeneh Addis

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TEST SUMMARY

Maxxam ID: BCZ445
Sample ID: WG-160900764-20151007-JK22
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/21	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4236269	2015/10/20	2015/10/21	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225512	N/A	2015/10/10	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/14	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/14	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225678	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225520	N/A	2015/10/10	Surinder Rai
Chromium (VI) in Water	IC	4225946	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4227602	N/A	2015/10/14	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4225383	N/A	2015/10/10	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4226812	N/A	2015/10/13	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4228470	2015/10/14	2015/10/15	Zhiyue (Frank) Zhu
Fluoride	ISE	4225521	2015/10/09	2015/10/10	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/16	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4225595	2015/10/09	2015/10/13	Magdalena Carlos
Metals Analysis by ICPMS (as received)	ICP/MS	4229073	2015/10/14	2015/10/15	John Bowman
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/16	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/16	Ewa Pranjic
Total Coliforms/ E. coli, CFU/100mL	PL	4223432	N/A	2015/10/08	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4228655	N/A	2015/10/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225653	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225522	N/A	2015/10/10	Surinder Rai
Orthophosphate	KONE	4225680	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/16	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/16	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225679	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/16	Ewa Pranjic
Total Dissolved Solids	BAL	4226745	N/A	2015/10/14	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	4228600	N/A	2015/10/14	Anastasia Hamanov
Total Suspended Solids	BAL	4226724	N/A	2015/10/13	Bansari Ray
Turbidity	AT	4225510	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4226142	N/A	2015/10/14	Xueming Jiang

Maxxam ID: BCZ445 Dup
Sample ID: WG-160900764-20151007-JK22
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	4225946	N/A	2015/10/13	Lang Le

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

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Your P.O. #: 1609
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TEST SUMMARY

Maxxam ID: BCZ446
Sample ID: WG-160900764-20151007-JK14
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Coliforms/ E. coli, CFU/100mL	PL	4223432	N/A	2015/10/08	Sirimathie Aluthwala

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

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Your P.O. #: 1609
Sampler Initials: JK

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.0°C
Package 2	6.3°C
Package 3	6.0°C
Package 4	3.0°C
Package 5	6.3°C
Package 6	7.3°C
Package 7	5.0°C
Package 8	4.7°C
Package 9	7.7°C
Package 10	4.7°C

Sample BCZ440-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCZ441-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCZ442-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCZ443-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCZ444-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample BCZ445-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
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Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4224514	Decachlorobiphenyl	2015/10/13	85	60 - 130	78	60 - 130	93	%				
4226142	4-Bromofluorobenzene	2015/10/13	98	70 - 130	98	70 - 130	97	%				
4226142	D4-1,2-Dichloroethane	2015/10/13	98	70 - 130	100	70 - 130	99	%				
4226142	D8-Toluene	2015/10/13	102	70 - 130	103	70 - 130	103	%				
4226812	1,4-Difluorobenzene	2015/10/13	99	70 - 130	102	70 - 130	100	%				
4226812	4-Bromofluorobenzene	2015/10/13	97	70 - 130	96	70 - 130	94	%				
4226812	D10-Ethylbenzene	2015/10/13	100	70 - 130	98	70 - 130	101	%				
4226812	D4-1,2-Dichloroethane	2015/10/13	103	70 - 130	104	70 - 130	103	%				
4228470	o-Terphenyl	2015/10/15	100	60 - 130	99	60 - 130	97	%				
4236269	2,4,6-Tribromophenol	2015/10/20	83	50 - 130	87	50 - 130	80	%				
4236269	2-Fluorobiphenyl	2015/10/20	68	50 - 130	66	50 - 130	73	%				
4236269	D14-Terphenyl (FS)	2015/10/20	88	50 - 130	92	50 - 130	91	%				
4236269	D5-Nitrobenzene	2015/10/20	74	50 - 130	75	50 - 130	81	%				
4224514	Aroclor 1242	2015/10/13					<0.05	ug/L	NC	30		
4224514	Aroclor 1248	2015/10/13					<0.05	ug/L	NC	30		
4224514	Aroclor 1254	2015/10/13					<0.05	ug/L	NC	30		
4224514	Aroclor 1260	2015/10/13	76	60 - 130	67	60 - 130	<0.05	ug/L	NC	30		
4224514	Total PCB	2015/10/13	76	60 - 130	67	60 - 130	<0.05	ug/L	NC	40		
4225383	Dissolved Organic Carbon	2015/10/10	102	80 - 120	104	80 - 120	<0.20	mg/L	NC	20		
4225489	Mercury (Hg)	2015/10/13	113	75 - 125	96	80 - 120	<0.00010	mg/L	NC	20		
4225506	Turbidity	2015/10/10			100	85 - 115	0.2, RDL=0.2	NTU	NC	20		
4225510	Turbidity	2015/10/10			108	85 - 115	<0.2	NTU	7.8	20		
4225512	Alkalinity (Total as CaCO3)	2015/10/10			96	85 - 115	<1.0	mg/L	0.88	25		
4225520	Conductivity	2015/10/10			101	85 - 115	<1.0	umho/cm	1.0	25		
4225521	Fluoride (F-)	2015/10/10	99	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
4225522	pH	2015/10/10			102	98 - 103			0.46	N/A		
4225527	Turbidity	2015/10/10			100	85 - 115	<0.2	NTU	NC	20		
4225595	Mercury (Hg)	2015/10/13	118	75 - 125	113	80 - 120	<0.00010	mg/L	NC	20		
4225653	Nitrate (N)	2015/10/13	106	80 - 120	100	80 - 120	<0.10	mg/L	NC	25		

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4225653	Nitrite (N)	2015/10/13	108	80 - 120	98	80 - 120	<0.010	mg/L	NC	25		
4225678	Dissolved Chloride (Cl)	2015/10/13	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.98	20		
4225679	Dissolved Sulphate (SO4)	2015/10/13	NC	75 - 125	98	80 - 120	<1.0	mg/L	0.54	20		
4225680	Orthophosphate (P)	2015/10/13	109	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
4225696	Alkalinity (Total as CaCO3)	2015/10/13			96	85 - 115	<1.0	mg/L	0.50	25		
4225697	Conductivity	2015/10/13			99	85 - 115	<1.0	umho/cm	0.19	25		
4225698	Fluoride (F-)	2015/10/13	104	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
4225699	pH	2015/10/13			101	98 - 103			0.66	N/A		
4225707	Nitrate (N)	2015/10/13	104	80 - 120	100	80 - 120	<0.10	mg/L	NC	25		
4225707	Nitrite (N)	2015/10/13	106	80 - 120	98	80 - 120	<0.010	mg/L	NC	25		
4225792	Dissolved Chloride (Cl)	2015/10/13	117	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
4225794	Orthophosphate (P)	2015/10/13	108	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
4225795	Dissolved Sulphate (SO4)	2015/10/13	106	75 - 125	99	80 - 120	<1.0	mg/L	0.91	20		
4225946	Chromium (VI)	2015/10/13	107	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
4226068	Mercury (Hg)	2015/10/13	119	75 - 125	106	80 - 120	<0.00010	mg/L	NC	20		
4226142	1,1,1,2-Tetrachloroethane	2015/10/14	90	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
4226142	1,1,1-Trichloroethane	2015/10/14	94	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
4226142	1,1,2,2-Tetrachloroethane	2015/10/14	91	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
4226142	1,1,2-Trichloroethane	2015/10/14	89	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
4226142	1,1-Dichloroethane	2015/10/14	93	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
4226142	1,1-Dichloroethylene	2015/10/14	99	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
4226142	1,2-Dichlorobenzene	2015/10/14	94	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4226142	1,2-Dichloroethane	2015/10/14	92	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4226142	1,2-Dichloropropane	2015/10/14	89	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
4226142	1,3-Dichlorobenzene	2015/10/14	86	70 - 130	90	70 - 130	<0.50	ug/L	NC	30		
4226142	1,4-Dichlorobenzene	2015/10/14	93	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
4226142	Acetone (2-Propanone)	2015/10/14	92	60 - 140	113	60 - 140	<10	ug/L	NC	30		
4226142	Benzene	2015/10/14	92	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
4226142	Bromodichloromethane	2015/10/14	94	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4226142	Bromoform	2015/10/14	91	70 - 130	101	70 - 130	<1.0	ug/L	NC	30		
4226142	Bromomethane	2015/10/14	78	60 - 140	80	60 - 140	<0.50	ug/L	NC	30		
4226142	Carbon Tetrachloride	2015/10/14	93	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
4226142	Chlorobenzene	2015/10/14	102	70 - 130	109	70 - 130	<0.20	ug/L	NC	30		
4226142	Chloroform	2015/10/14	92	70 - 130	98	70 - 130	<0.20	ug/L	9.5	30		
4226142	cis-1,2-Dichloroethylene	2015/10/14	96	70 - 130	102	70 - 130	<0.50	ug/L	NC	30		
4226142	cis-1,3-Dichloropropene	2015/10/14	81	70 - 130	78	70 - 130	<0.30	ug/L	NC	30		
4226142	Dibromochloromethane	2015/10/14	92	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
4226142	Dichlorodifluoromethane (FREON 12)	2015/10/14	83	60 - 140	94	60 - 140	<1.0	ug/L	NC	30		
4226142	Ethylbenzene	2015/10/14	97	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
4226142	Ethylene Dibromide	2015/10/14	88	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
4226142	Hexane	2015/10/14	99	70 - 130	105	70 - 130	<1.0	ug/L	NC	30		
4226142	Methyl Ethyl Ketone (2-Butanone)	2015/10/14	100	60 - 140	119	60 - 140	<10	ug/L	NC	30		
4226142	Methyl Isobutyl Ketone	2015/10/14	100	70 - 130	112	70 - 130	<5.0	ug/L	NC	30		
4226142	Methyl t-butyl ether (MTBE)	2015/10/14	92	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4226142	Methylene Chloride(Dichloromethane)	2015/10/14	96	70 - 130	104	70 - 130	<2.0	ug/L	NC	30		
4226142	o-Xylene	2015/10/14	89	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
4226142	p+m-Xylene	2015/10/14	80	70 - 130	85	70 - 130	<0.20	ug/L	NC	30		
4226142	Styrene	2015/10/14	85	70 - 130	94	70 - 130	<0.50	ug/L	NC	30		
4226142	Tetrachloroethylene	2015/10/14	90	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
4226142	Toluene	2015/10/14	92	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
4226142	Total Xylenes	2015/10/14					<0.20	ug/L	NC	30		
4226142	trans-1,2-Dichloroethylene	2015/10/14	87	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4226142	trans-1,3-Dichloropropene	2015/10/14	90	70 - 130	86	70 - 130	<0.40	ug/L	NC	30		
4226142	Trichloroethylene	2015/10/14	90	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4226142	Trichlorofluoromethane (FREON 11)	2015/10/14	97	70 - 130	102	70 - 130	<0.50	ug/L	NC	30		
4226142	Vinyl Chloride	2015/10/14	93	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
4226724	Total Suspended Solids	2015/10/13					<10	mg/L	NC	25	98	85 - 115
4226745	Total Dissolved Solids	2015/10/14					<10	mg/L	0.47	25	99	90 - 110
4226812	Benzene	2015/10/13	108	70 - 130	95	70 - 130	<0.20	ug/L				

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4226812	Ethylbenzene	2015/10/13	111	70 - 130	101	70 - 130	<0.20	ug/L				
4226812	F1 (C6-C10) - BTEX	2015/10/13					<25	ug/L	NC	30		
4226812	F1 (C6-C10)	2015/10/13	71	70 - 130	99	70 - 130	<25	ug/L	NC	30		
4226812	o-Xylene	2015/10/13	112	70 - 130	99	70 - 130	<0.20	ug/L				
4226812	p+m-Xylene	2015/10/13	98	70 - 130	91	70 - 130	<0.40	ug/L				
4226812	Toluene	2015/10/13	100	70 - 130	91	70 - 130	<0.20	ug/L				
4226812	Total Xylenes	2015/10/13					<0.40	ug/L				
4226905	Acidity as CaC03	2015/10/15					<10	mg/L	NC	25		
4227602	Free Cyanide	2015/10/14	106	80 - 120	109	80 - 120	<2	ug/L	NC	20		
4228470	F2 (C10-C16 Hydrocarbons)	2015/10/15	96	50 - 130	95	60 - 130	<100	ug/L	NC	30		
4228470	F3 (C16-C34 Hydrocarbons)	2015/10/15	102	50 - 130	101	60 - 130	<200	ug/L	NC	30		
4228470	F4 (C34-C50 Hydrocarbons)	2015/10/15	96	50 - 130	94	60 - 130	<200	ug/L	NC	30		
4228600	Total Organic Carbon (TOC)	2015/10/14	96	80 - 120	98	80 - 120	<0.20	mg/L	1.1	20		
4228650	Total Ammonia-N	2015/10/15	101	80 - 120	98	85 - 115	<0.050	mg/L	NC	20		
4228655	Total Ammonia-N	2015/10/15	100	80 - 120	99	85 - 115	<0.050	mg/L	NC	20		
4229073	. Aluminum (Al)	2015/10/15	107	80 - 120	102	80 - 120	<0.0050	mg/L	3.3	20		
4229073	. Antimony (Sb)	2015/10/15	101	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4229073	. Arsenic (As)	2015/10/15	100	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
4229073	. Barium (Ba)	2015/10/15	101	80 - 120	100	80 - 120	<0.0020	mg/L	4.2	20		
4229073	. Beryllium (Be)	2015/10/15	93	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
4229073	. Boron (B)	2015/10/15	92	80 - 120	100	80 - 120	<0.010	mg/L	NC	20		
4229073	. Cadmium (Cd)	2015/10/15	102	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20		
4229073	. Calcium (Ca)	2015/10/15	NC	80 - 120	99	80 - 120	<0.20	mg/L	0.013	20		
4229073	. Chromium (Cr)	2015/10/15	98	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
4229073	. Cobalt (Co)	2015/10/15	102	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
4229073	. Copper (Cu)	2015/10/15	108	80 - 120	99	80 - 120	<0.0010	mg/L	3.5	20		
4229073	. Iron (Fe)	2015/10/15	100	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
4229073	. Lead (Pb)	2015/10/15	98	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4229073	. Magnesium (Mg)	2015/10/15	104	80 - 120	100	80 - 120	<0.050	mg/L	3.2	20		
4229073	. Manganese (Mn)	2015/10/15	99	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20		

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QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4229073	. Molybdenum (Mo)	2015/10/15	101	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4229073	. Nickel (Ni)	2015/10/15	99	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
4229073	. Phosphorus (P)	2015/10/15	NC	80 - 120	102	80 - 120	<0.10	mg/L	0.24	20		
4229073	. Potassium (K)	2015/10/15	105	80 - 120	102	80 - 120	<0.20	mg/L	4.6	20		
4229073	. Selenium (Se)	2015/10/15	106	80 - 120	102	80 - 120	<0.0020	mg/L	NC	20		
4229073	. Silicon (Si)	2015/10/15	98	80 - 120	97	80 - 120	<0.050	mg/L	0.38	20		
4229073	. Silver (Ag)	2015/10/15	99	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
4229073	. Sodium (Na)	2015/10/15	NC	80 - 120	103	80 - 120	<0.10	mg/L	3.7	20		
4229073	. Strontium (Sr)	2015/10/15	94	80 - 120	101	80 - 120	<0.0010	mg/L	1.9	20		
4229073	. Thallium (Tl)	2015/10/15	102	80 - 120	101	80 - 120	<0.000050	mg/L	NC	20		
4229073	. Titanium (Ti)	2015/10/15	96	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20		
4229073	. Uranium (U)	2015/10/15	100	80 - 120	102	80 - 120	<0.00010	mg/L	NC	20		
4229073	. Vanadium (V)	2015/10/15	100	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4229073	. Zinc (Zn)	2015/10/15	99	80 - 120	98	80 - 120	<0.0050	mg/L	4.2	20		
4229073	. Zirconium (Zr)	2015/10/15	107	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
4236269	1,2,4-Trichlorobenzene	2015/10/20	69	40 - 130	57	40 - 130	<0.1	ug/L	NC	30		
4236269	1-Methylnaphthalene	2015/10/20	79	50 - 130	79	50 - 130	<0.2	ug/L				
4236269	2,4,5-Trichlorophenol	2015/10/20	82	50 - 130	89	50 - 130	<0.2	ug/L				
4236269	2,4,6-Trichlorophenol	2015/10/20	80	50 - 130	87	50 - 130	<0.2	ug/L	NC	30		
4236269	2,4-Dichlorophenol	2015/10/20	71	50 - 130	80	50 - 130	<0.1	ug/L				
4236269	2,4-Dimethylphenol	2015/10/20	66	30 - 130	63	30 - 130	<0.5	ug/L				
4236269	2,4-Dinitrophenol	2015/10/20	93	30 - 130	70	30 - 130	<2	ug/L				
4236269	2,4-Dinitrotoluene	2015/10/20	86	50 - 130	95	50 - 130	<0.3	ug/L				
4236269	2,6-Dinitrotoluene	2015/10/20	81	50 - 130	90	50 - 130	<0.3	ug/L				
4236269	2-Chlorophenol	2015/10/20	66	50 - 130	72	50 - 130	<0.1	ug/L				
4236269	2-Methylnaphthalene	2015/10/20	73	50 - 130	71	50 - 130	<0.2	ug/L				
4236269	3,3'-Dichlorobenzidine	2015/10/20	63	30 - 130	96	30 - 130	<0.5	ug/L				
4236269	Acenaphthene	2015/10/20	79	50 - 130	83	50 - 130	<0.2	ug/L				
4236269	Acenaphthylene	2015/10/20	76	50 - 130	81	50 - 130	<0.2	ug/L				
4236269	Anthracene	2015/10/20	81	50 - 130	90	50 - 130	<0.05	ug/L				

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QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4236269	Benzo(a)anthracene	2015/10/20	94	50 - 130	101	50 - 130	<0.05	ug/L				
4236269	Benzo(a)pyrene	2015/10/20	92	50 - 130	97	50 - 130	<0.01	ug/L	NC	30		
4236269	Benzo(b/j)fluoranthene	2015/10/20	98	50 - 130	101	50 - 130	<0.05	ug/L				
4236269	Benzo(g,h,i)perylene	2015/10/20	102	50 - 130	110	50 - 130	<0.05	ug/L				
4236269	Benzo(k)fluoranthene	2015/10/20	95	50 - 130	94	50 - 130	<0.05	ug/L				
4236269	Biphenyl	2015/10/20	74	50 - 130	75	50 - 130	<0.1	ug/L				
4236269	Bis(2-chloroethyl)ether	2015/10/20	74	50 - 130	77	50 - 130	<0.5	ug/L				
4236269	Bis(2-chloroisopropyl)ether	2015/10/20	64	50 - 130	67	50 - 130	<0.5	ug/L				
4236269	Bis(2-ethylhexyl)phthalate	2015/10/20	94	50 - 130	100	50 - 130	<1	ug/L	NC	30		
4236269	Chrysene	2015/10/20	93	50 - 130	100	50 - 130	<0.05	ug/L				
4236269	Dibenz(a,h)anthracene	2015/10/20	98	50 - 130	104	50 - 130	<0.1	ug/L				
4236269	Diethyl phthalate	2015/10/20	77	50 - 130	85	50 - 130	<0.1	ug/L				
4236269	Dimethyl phthalate	2015/10/20	82	50 - 130	91	50 - 130	<0.1	ug/L				
4236269	Fluoranthene	2015/10/20	92	50 - 130	99	50 - 130	<0.2	ug/L				
4236269	Fluorene	2015/10/20	80	50 - 130	88	50 - 130	<0.2	ug/L				
4236269	Indeno(1,2,3-cd)pyrene	2015/10/20	99	50 - 130	106	50 - 130	<0.1	ug/L				
4236269	Naphthalene	2015/10/20	72	50 - 130	69	50 - 130	<0.2	ug/L	NC	30		
4236269	p-Chloroaniline	2015/10/20	54	30 - 130	98	30 - 130	<1	ug/L				
4236269	Pentachlorophenol	2015/10/20	73	50 - 130	68	50 - 130	<0.1	ug/L	NC	30		
4236269	Phenanthrene	2015/10/20	82	50 - 130	89	50 - 130	<0.1	ug/L				
4236269	Phenol	2015/10/20	30	30 - 130	35	30 - 130	<0.5	ug/L				

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Maxxam Job #: B5K5099
Report Date: 2015/10/21

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4236269	Pyrene	2015/10/20	96	50 - 130	103	50 - 130	<0.05	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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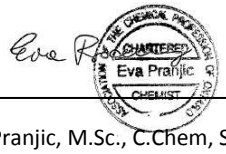
Maxxam Job #: B5K5099
Report Date: 2015/10/21

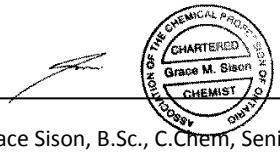
Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Your P.O. #: 1609
Sampler Initials: JK

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist



Grace Sison, B.Sc., C.Chem, Senior Project Manager - Petroleum Division

Sirimathie Aluthwala, Campobello Micro

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 2	532448-03-01
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Page 1 of 1	532470-04-01
Page ___ of ___	
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COOLER OBSERVATIONS:

MAXXAM JOB#:

COOLER ID	CUSTODY SEAL PRESENT (YES/NO)	CUSTODY SEAL INTACT (YES/NO)	ICE PRESENT (YES/NO)	TEMP 1	TEMP 2	TEMP 3
	YES ✓	YES ✓	YES ✓	3	4	5
	YES ✓	YES ✓	YES ✓	6	6	7
	YES ✓	YES ✓	YES ✓	6	6	6
	YES ✓	YES ✓	YES ✓	2	3	4
	YES ✓	YES ✓	YES ✓	7	6	6
	YES ✓	YES ✓	YES ✓	7	8	7
	YES ✓	YES ✓	YES ✓	4	5	6
	YES ✓	YES ✓	YES ✓	3	5	6
	YES ✓	YES ✓	YES ✓	8	8	7
	YES ✓	YES ✓	YES ✓	3	5	6
	YES ✓	YES ✓	YES ✓	5	6	6
	YES ✓	YES ✓	YES ✓	4	5	5
	YES ✓	YES ✓	YES ✓	6	6	6

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
BRENDA WOODWARD / Brenda Woodward	2015/10/08	08:00

Maxxam

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 1	C# 532470-04-01
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COOLER OBSERVATIONS:			MAXXAM JOB#:		
CUSTODY SEAL	YES	NO	CUSTODY SEAL	YES	NO
PRESENT	✓		PRESENT	✓	
INTACT	✓		INTACT	✓	
ICE PRESENT	✓		ICE PRESENT	✓	
COOLER ID 1			COOLER ID 11		
TEMP	4 (1)	3 (2)	TEMP	4 (1)	4 (2)
	3 (3)			5 (3)	
COOLER ID 2			COOLER ID 12		
TEMP	7 (1)	8 (2)	TEMP	2 (1)	2 (2)
	6 (3)			3 (3)	
COOLER ID 3			COOLER ID 13		
TEMP	3 (1)	2 (2)	TEMP	2 (1)	1 (2)
	2 (3)			1 (3)	
COOLER ID 4			COOLER ID		
TEMP	2 (1)	2 (2)	TEMP	(1)	(2)
	1 (3)			(3)	
COOLER ID 5			COOLER ID		
TEMP	2 (1)	2 (2)	TEMP	(1)	(2)
	3 (3)			(3)	
COOLER ID 6			COOLER ID		
TEMP	2 (1)	2 (2)	TEMP	(1)	(2)
	2 (3)			(3)	
COOLER ID 7			COOLER ID		
TEMP	3 (1)	4 (2)	TEMP	(1)	(2)
	4 (3)			(3)	
COOLER ID 8			COOLER ID		
TEMP	2 (1)	2 (2)	TEMP	(1)	(2)
	5 (3)			(3)	
COOLER ID 9			COOLER ID		
TEMP	5 (1)	7 (2)	TEMP	(1)	(2)
	7 (3)			(3)	
COOLER ID 10			COOLER ID		
TEMP	1 (1)	1 (2)	TEMP	(1)	(2)
	2 (3)			(3)	

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
	RACHEL DEVLIN	2015/10/08	13:10

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STANTEC CHAIN OF CUSTODY RECORD

1 of 1
Page 1 of 8

INVOICE INFORMATION:		REPORT INFORMATION(if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#9197 Stantec Consulting Ltd	Company Name:	#18379 Stantec Consulting Ltd	Quotation #:	B48218	Maxxam Job #:	Bottle Order #:
Contact Name:	Accounts Payable	Contact Name:	Report - 1609-00764	Task #:			532470
Address:	49 Frederick St	Address:		Project #:	160900764		
	Kitchener ON N2H 6M7		ON	Profit Centre:	1609	COC #:	Project Manager:
Phone:	(519) 579-4410 Fax: (519) 579-6733	Phone:	Fax:	Site #:	CLARINGTON TS-PRIVATE WELLS	C#532470-04-01	Deepthi Shaji
Email:	Stantec.Accounts.Payable.Invoices@Stantec.com	Email:	aaron.warkentin@stantec.com, brant.gill@stantec.com, and edde stantec.com	Sampled By:	JK		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality	
☐ Table ___	☐ PWQO	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? ____

ANALYSIS REQUESTED (PLEASE BE SPECIFIC):

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT:
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Acidity, CrVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	Reg 153 PHC - F1-F4	Reg 153 PCBs	Reg 153 VOCs	RCAp - Comp (Drinking Water) - No Filter	SVOCs	E.coli, Total Coliform, Background			# of Bottles	Comments
1		WG-160900764-201510[07]-JK17	OCT 7 2015	0947	WG	None	✓	✓	✓	✓	✓	✓	✓	✓			21	Samples are
2		WG-160900764-201510[07]-JK18		1052			✓	✓	✓	✓	✓	✓	✓	✓				not reportable
3		WG-160900764-201510[07]-JK19		1157			✓	✓	✓	✓	✓	✓	✓	✓				
4		WG-160900764-201510[07]-JK20		1340 ~~1235~~ 2nd			✓	✓	✓	✓	✓	✓	✓	✓				
5		WG-160900764-201510[07]-JK21		1420			✓	✓	✓	✓	✓	✓	✓	✓				
6		WG-160900764-201510[07]-JK22		1647			✓	✓	✓	✓	✓	✓	✓	✓			✓	**MICRO**
7		WG-160900764-201510[07]-JK14	OCT 7/15 2nd	~~1236~~ 2nd	WG									✓			1	
8		WG-160900764-201510 -																REC'D IN PORT HOPE
9		WG-160900764-201510 -																
10		WG-160900764-201510 -																

08-Oct-15 08:00
Deepthi Shaji
B5K5099
HP6 ENV-760

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
JAMIE KOCH	15/10/07	1900	BRENDA WOODWARD Brenda Woodward	2015/10/08	08:00			See Attachment	Present	✓	
			RACHEL DEVLIN	2015/10/08	13:10				Intact	✓	

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD - AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxam Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

#-308466 REFER TO ACTR

Maxxam
A Bureau Veritas Group Company

Your P.O. #: 1609
Your Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your C.O.C. #: 532448-03-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/19
Report #: R3725912
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K5143
Received: 2015/10/08, 08:00

Sample Matrix: Water
Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	16	N/A	2015/10/19	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	17	2015/10/15	2015/10/17	CAM SOP-00301	EPA 8270 m
Acidity as CaC03 in liquid (1, 2)	7	2015/10/13	2015/10/15	SLA SOP-00100	APHA SM2310B (Mod)
Alkalinity	4	N/A	2015/10/10	CAM SOP-00448	SM 22 2320 B m
Alkalinity	3	N/A	2015/10/13	CAM SOP-00448	SM 22 2320 B m
Carbonate, Bicarbonate and Hydroxide	7	N/A	2015/10/19	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	8	N/A	2015/10/19		EPA 8260C m
Chloride by Automated Colourimetry	7	N/A	2015/10/13	CAM SOP-00463	EPA 325.2 m
Conductivity	4	N/A	2015/10/10	CAM SOP-00414	SM 22 2510 m
Conductivity	3	N/A	2015/10/13	CAM SOP-00414	SM 22 2510 m
Chromium (VI) in Water	5	N/A	2015/10/13	CAM SOP-00436	EPA 7199 m
Chromium (VI) in Water	2	N/A	2015/10/14	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	7	N/A	2015/10/13	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (3)	3	N/A	2015/10/09	CAM SOP-00446	SM 22 5310 B m
Dissolved Organic Carbon (DOC) (3)	4	N/A	2015/10/10	CAM SOP-00446	SM 22 5310 B m
Petroleum Hydro. CCME F1 & BTEX in Water	9	N/A	2015/10/14	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (4)	7	2015/10/16	2015/10/16	CAM SOP-00316	CCME PHC-CWS m
Fluoride	4	2015/10/09	2015/10/10	CAM SOP-00449	SM 22 4500-F C m
Fluoride	3	2015/10/10	2015/10/13	CAM SOP-00449	SM 22 4500-F C m
Hardness (calculated as CaCO3)	7	N/A	2015/10/19	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	3	2015/10/11	2015/10/13	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	4	2015/10/11	2015/10/14	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	7	N/A	2015/10/19	CAM SOP-00447	EPA 6020A m
Ion Balance (% Difference)	7	N/A	2015/10/19		
Anion and Cation Sum	7	N/A	2015/10/19		
Total Ammonia-N	7	N/A	2015/10/16	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (5)	7	N/A	2015/10/13	CAM SOP-00440	SM 22 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	7	2015/10/09	2015/10/13	CAM SOP-00309	EPA 8082A m
pH	4	N/A	2015/10/10	CAM SOP-00413	SM 4500H+ B m

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A Bureau Veritas Group Company

Your P.O. #: 1609
Your Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your C.O.C. #: 532448-03-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/19
Report #: R3725912
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K5143
Received: 2015/10/08, 08:00

Sample Matrix: Water
Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
pH	3	N/A	2015/10/13	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	7	N/A	2015/10/13	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	7	N/A	2015/10/19		
Sat. pH and Langelier Index (@ 4C)	7	N/A	2015/10/19		
Sulphate by Automated Colourimetry	7	N/A	2015/10/13	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	7	N/A	2015/10/19		
Total Dissolved Solids	7	N/A	2015/10/16	CAM SOP-00428	SM 22 2540C m
Total Organic Carbon (TOC) (6)	7	N/A	2015/10/15	CAM SOP-00446	SM 22 5310B m
Total Suspended Solids	7	N/A	2015/10/11	CAM SOP-00428	SM 22 2540D m
Turbidity	7	N/A	2015/10/10	CAM SOP-00417	SM 22 2130 B m
Volatile Organic Compounds in Water	7	N/A	2015/10/10	CAM SOP000228	EPA 8260C m
Volatile Organic Compounds in Water	1	N/A	2015/10/13	CAM SOP000228	EPA 8260C m

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

Maxxam Analytics is accredited for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

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Your P.O. #: 1609
Your Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your C.O.C. #: 532448-03-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/19
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Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K5143

Received: 2015/10/08, 08:00

(1) This test was performed by Maxxam Sladeview Petrochemical
(2) Sample(s) analyzed using methodologies that have not been subjected to Maxxam's standard validation process for the submitted matrix and is not an Accredited method. Analysis performed with client consent, however results should be viewed with discretion
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
(5) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(6) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Deepthi Shaji, Project Manager
Email: dshaji@maxxam.ca
Phone# (905)817-5700 Ext:5807

==========

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCZ958	BCZ958		BCZ960		
Sampling Date		2015/10/07 08:10	2015/10/07 08:10		2015/10/07 09:04		
COC Number		532448-03-01	532448-03-01		532448-03-01		
	UNITS	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10 Lab-Dup	QC Batch	WG-160900764-20151007-RD11	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	5.47		4223115	5.44	N/A	4223115
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	190		4222236	180	1.0	4222236
Calculated TDS	mg/L	290		4222241	310	1.0	4222241
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.3		4222236	1.3	1.0	4222236
Cation Sum	me/L	5.56		4223115	6.09	N/A	4223115
Hardness (CaCO3)	mg/L	250		4222238	280	1.0	4222238
Ion Balance (% Difference)	%	0.840		4223114	5.66	N/A	4223114
Langelier Index (@ 20C)	N/A	0.329		4222239	0.404		4222239
Langelier Index (@ 4C)	N/A	0.0800		4222240	0.155		4222240
Saturation pH (@ 20C)	N/A	7.51		4222239	7.47		4222239
Saturation pH (@ 4C)	N/A	7.76		4222240	7.72		4222240
Inorganics							
Total Ammonia-N	mg/L	<0.050		4230530	0.085	0.050	4230530
Conductivity	umho/cm	530	530	4225697	530	1.0	4225697
Dissolved Organic Carbon	mg/L	1.1		4224289	0.80	0.20	4224282
Orthophosphate (P)	mg/L	<0.010		4225794	<0.010	0.010	4225794
pH	pH	7.84	7.89	4225699	7.87	N/A	4225699
Dissolved Sulphate (SO4)	mg/L	38		4225795	46	1.0	4225795
Alkalinity (Total as CaCO3)	mg/L	190	190	4225696	180	1.0	4225696
Dissolved Chloride (Cl)	mg/L	28		4225792	29	1.0	4225792
Nitrite (N)	mg/L	0.016		4225653	0.018	0.010	4225653
Nitrate (N)	mg/L	<0.10		4225653	0.28	0.10	4225653
Nitrate + Nitrite (N)	mg/L	<0.10		4225653	0.29	0.10	4225653
Metals							
Dissolved Aluminum (Al)	mg/L	0.0099	0.0098	4234876	0.013	0.0050	4234876
Dissolved Antimony (Sb)	mg/L	<0.00050	<0.00050	4234876	<0.00050	0.00050	4234876
Dissolved Arsenic (As)	mg/L	<0.0010	<0.0010	4234876	<0.0010	0.0010	4234876
Dissolved Barium (Ba)	mg/L	0.080	0.078	4234876	0.10	0.0020	4234876
Dissolved Beryllium (Be)	mg/L	<0.00050	<0.00050	4234876	<0.00050	0.00050	4234876
Dissolved Boron (B)	mg/L	0.021	0.022	4234876	0.011	0.010	4234876

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCZ958	BCZ958		BCZ960		
Sampling Date		2015/10/07 08:10	2015/10/07 08:10		2015/10/07 09:04		
COC Number		532448-03-01	532448-03-01		532448-03-01		
	UNITS	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10 Lab-Dup	QC Batch	WG-160900764-20151007-RD11	RDL	QC Batch
Dissolved Cadmium (Cd)	mg/L	<0.00010	<0.00010	4234876	<0.00010	0.00010	4234876
Dissolved Calcium (Ca)	mg/L	41	41	4234876	49	0.20	4234876
Dissolved Chromium (Cr)	mg/L	<0.0050	<0.0050	4234876	<0.0050	0.0050	4234876
Dissolved Cobalt (Co)	mg/L	0.00068	0.00067	4234876	0.00053	0.00050	4234876
Dissolved Copper (Cu)	mg/L	<0.0010	<0.0010	4234876	<0.0010	0.0010	4234876
Dissolved Iron (Fe)	mg/L	<0.10	<0.10	4234876	<0.10	0.10	4234876
Dissolved Lead (Pb)	mg/L	<0.00050	<0.00050	4234876	<0.00050	0.00050	4234876
Dissolved Magnesium (Mg)	mg/L	36	36	4234876	38	0.050	4234876
Dissolved Manganese (Mn)	mg/L	0.10	0.10	4234876	0.042	0.0020	4234876
Dissolved Molybdenum (Mo)	mg/L	0.0043	0.0041	4234876	0.0026	0.00050	4234876
Dissolved Nickel (Ni)	mg/L	<0.0010	<0.0010	4234876	<0.0010	0.0010	4234876
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	4234876	<0.10	0.10	4234876
Dissolved Potassium (K)	mg/L	3.8	3.7	4234876	2.9	0.20	4234876
Dissolved Selenium (Se)	mg/L	<0.0020	<0.0020	4234876	<0.0020	0.0020	4234876
Dissolved Silicon (Si)	mg/L	8.9	8.9	4234876	11	0.050	4234876
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	4234876	<0.00010	0.00010	4234876
Dissolved Sodium (Na)	mg/L	10	10	4234876	10	0.10	4234876
Dissolved Strontium (Sr)	mg/L	0.57	0.56	4234876	0.48	0.0010	4234876
Dissolved Thallium (Tl)	mg/L	<0.000050	<0.000050	4234876	<0.000050	0.000050	4234876
Dissolved Titanium (Ti)	mg/L	<0.0050	<0.0050	4234876	<0.0050	0.0050	4234876
Dissolved Uranium (U)	mg/L	0.0028	0.0028	4234876	0.0011	0.00010	4234876
Dissolved Vanadium (V)	mg/L	0.00060	<0.00050	4234876	<0.00050	0.00050	4234876
Dissolved Zinc (Zn)	mg/L	<0.0050	<0.0050	4234876	<0.0050	0.0050	4234876
Dissolved Zirconium (Zr)	mg/L	<0.0010	<0.0010	4234876	<0.0010	0.0010	4234876

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCZ963			BCZ965		BCZ967		
Sampling Date		2015/10/07 12:38			2015/10/07 10:40		2015/10/07 10:40		
COC Number		532448-03-01			532448-03-01		532448-03-01		
	UNITS	WG-160900764-20151007-RD12	RDL	QC Batch	WG-160900764-20151007-RD13	QC Batch	WG-160900764-20151007-RD14	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	7.97	N/A	4223115	4.52	4223115	4.63	N/A	4223115
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	210	1.0	4222236	180	4222236	180	1.0	4222236
Calculated TDS	mg/L	470	1.0	4222241	240	4222241	250	1.0	4222241
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.3	1.0	4222236	1.5	4222236	1.7	1.0	4222236
Cation Sum	me/L	8.20	N/A	4223115	4.68	4223115	4.70	N/A	4223115
Hardness (CaCO3)	mg/L	390	1.0	4222238	200	4222238	200	1.0	4222238
Ion Balance (% Difference)	%	1.40	N/A	4223114	1.80	4223114	0.750	N/A	4223114
Langelier Index (@ 20C)	N/A	0.662		4222239	0.227	4222239	0.266		4222239
Langelier Index (@ 4C)	N/A	0.413		4222240	-0.0230	4222240	0.0170		4222240
Saturation pH (@ 20C)	N/A	7.16		4222239	7.74	4222239	7.72		4222239
Saturation pH (@ 4C)	N/A	7.41		4222240	7.99	4222240	7.97		4222240
Inorganics									
Total Ammonia-N	mg/L	0.14	0.050	4230530	0.059	4230530	0.068	0.050	4230530
Conductivity	umho/cm	770	1.0	4225697	420	4225520	420	1.0	4225520
Dissolved Organic Carbon	mg/L	0.85	0.20	4224282	0.54	4224289	0.55	0.20	4224289
Orthophosphate (P)	mg/L	<0.010	0.010	4225794	<0.010	4225794	<0.010	0.010	4225680
pH	pH	7.82	N/A	4225699	7.96	4225522	7.99	N/A	4225522
Dissolved Sulphate (SO4)	mg/L	88	1.0	4225795	25	4225795	26	1.0	4225679
Alkalinity (Total as CaCO3)	mg/L	210	1.0	4225696	180	4225512	180	1.0	4225512
Dissolved Chloride (Cl)	mg/L	25	1.0	4225792	13	4225792	14	1.0	4225678
Nitrite (N)	mg/L	0.058	0.010	4225653	<0.010	4225707	<0.010	0.010	4225653
Nitrate (N)	mg/L	16.7	0.50	4225653	<0.10	4225707	<0.10	0.10	4225653
Nitrate + Nitrite (N)	mg/L	16.8	0.50	4225653	<0.10	4225707	<0.10	0.10	4225653
Metals									
Dissolved Aluminum (Al)	mg/L	<0.0050	0.0050	4234876	<0.0050	4234876	<0.0050	0.0050	4234876
Dissolved Antimony (Sb)	mg/L	<0.00050	0.00050	4234876	<0.00050	4234876	<0.00050	0.00050	4234876
Dissolved Arsenic (As)	mg/L	<0.0010	0.0010	4234876	0.0011	4234876	<0.0010	0.0010	4234876
Dissolved Barium (Ba)	mg/L	0.059	0.0020	4234876	0.099	4234876	0.099	0.0020	4234876
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	4234876	<0.00050	4234876	<0.00050	0.00050	4234876
Dissolved Boron (B)	mg/L	0.012	0.010	4234876	0.023	4234876	0.022	0.010	4234876
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	4234876	<0.00010	4234876	<0.00010	0.00010	4234876

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCZ963			BCZ965		BCZ967		
Sampling Date		2015/10/07 12:38			2015/10/07 10:40		2015/10/07 10:40		
COC Number		532448-03-01			532448-03-01		532448-03-01		
	UNITS	WG-160900764 -20151007-RD12	RDL	QC Batch	WG-160900764 -20151007-RD13	QC Batch	WG-160900764 -20151007-RD14	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	94	0.20	4234876	25	4234876	26	0.20	4234876
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	4234876	<0.0050	4234876	<0.0050	0.0050	4234876
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	4234876	<0.00050	4234876	<0.00050	0.00050	4234876
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	4234876	<0.0010	4234876	<0.0010	0.0010	4234876
Dissolved Iron (Fe)	mg/L	<0.10	0.10	4234876	0.25	4234876	0.25	0.10	4234876
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	4234876	<0.00050	4234876	<0.00050	0.00050	4234876
Dissolved Magnesium (Mg)	mg/L	38	0.050	4234876	34	4234876	34	0.050	4234876
Dissolved Manganese (Mn)	mg/L	0.011	0.0020	4234876	0.0058	4234876	0.0059	0.0020	4234876
Dissolved Molybdenum (Mo)	mg/L	0.0059	0.00050	4234876	0.0021	4234876	0.0019	0.00050	4234876
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	4234876	<0.0010	4234876	<0.0010	0.0010	4234876
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	4234876	<0.10	4234876	<0.10	0.10	4234876
Dissolved Potassium (K)	mg/L	4.1	0.20	4234876	2.5	4234876	2.5	0.20	4234876
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	4234876	<0.0020	4234876	<0.0020	0.0020	4234876
Dissolved Silicon (Si)	mg/L	7.8	0.050	4234876	10	4234876	11	0.050	4234876
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	4234876	<0.00010	4234876	<0.00010	0.00010	4234876
Dissolved Sodium (Na)	mg/L	6.5	0.10	4234876	12	4234876	12	0.10	4234876
Dissolved Strontium (Sr)	mg/L	0.39	0.0010	4234876	0.60	4234876	0.60	0.0010	4234876
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	4234876	<0.000050	4234876	<0.000050	0.000050	4234876
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	4234876	<0.0050	4234876	<0.0050	0.0050	4234876
Dissolved Uranium (U)	mg/L	0.0028	0.00010	4234876	<0.00010	4234876	<0.00010	0.00010	4234876
Dissolved Vanadium (V)	mg/L	0.00054	0.00050	4234876	<0.00050	4234876	<0.00050	0.00050	4234876
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	4234876	<0.0050	4234876	<0.0050	0.0050	4234876
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	4234876	<0.0010	4234876	<0.0010	0.0010	4234876

RDL = Reportable Detection Limit
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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCZ970	BCZ970		BCZ972		
Sampling Date		2015/10/07 14:05	2015/10/07 14:05		2015/10/07 15:37		
COC Number		532448-03-01	532448-03-01		532448-03-01		
	UNITS	WG-160900764-20151007-RD15	WG-160900764-20151007-RD15 Lab-Dup	QC Batch	WG-160900764-20151007-RD16	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	4.47		4223115	2.29	N/A	4223115
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	190		4222236	100	1.0	4222236
Calculated TDS	mg/L	240		4222241	130	1.0	4222241
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.4		4222236	1.7	1.0	4222236
Cation Sum	me/L	4.61		4223115	2.19	N/A	4223115
Hardness (CaCO3)	mg/L	200		4222238	43	1.0	4222238
Ion Balance (% Difference)	%	1.55		4223114	NC	N/A	4223114
Langelier Index (@ 20C)	N/A	0.304		4222239	-0.121		4222239
Langelier Index (@ 4C)	N/A	0.0540		4222240	-0.372		4222240
Saturation pH (@ 20C)	N/A	7.58		4222239	8.38		4222239
Saturation pH (@ 4C)	N/A	7.83		4222240	8.63		4222240
Inorganics							
Total Ammonia-N	mg/L	0.10		4230530	<0.050	0.050	4230530
Conductivity	umho/cm	400		4225520	180	1.0	4225520
Dissolved Organic Carbon	mg/L	0.81	0.80	4224289	3.4	0.20	4224289
Orthophosphate (P)	mg/L	<0.010		4225680	<0.010	0.010	4225680
pH	pH	7.88		4225522	8.26	N/A	4225522
Dissolved Sulphate (SO4)	mg/L	21		4225679	4.3	1.0	4225679
Alkalinity (Total as CaCO3)	mg/L	190		4225512	100	1.0	4225512
Dissolved Chloride (Cl)	mg/L	5.1		4225678	2.3	1.0	4225678
Nitrite (N)	mg/L	<0.010	<0.010	4225707	<0.010	0.010	4225653
Nitrate (N)	mg/L	<0.10	<0.10	4225707	<0.10	0.10	4225653
Nitrate + Nitrite (N)	mg/L	<0.10	<0.10	4225707	<0.10	0.10	4225653
Metals							
Dissolved Aluminum (Al)	mg/L	<0.0050		4234876	0.0081	0.0050	4234876
Dissolved Antimony (Sb)	mg/L	<0.00050		4234876	<0.00050	0.00050	4234876
Dissolved Arsenic (As)	mg/L	<0.0010		4234876	<0.0010	0.0010	4234876
Dissolved Barium (Ba)	mg/L	0.062		4234876	0.019	0.0020	4234876
Dissolved Beryllium (Be)	mg/L	<0.00050		4234876	<0.00050	0.00050	4234876
Dissolved Boron (B)	mg/L	0.042		4234876	0.12	0.010	4234876

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		BCZ970	BCZ970		BCZ972		
Sampling Date		2015/10/07 14:05	2015/10/07 14:05		2015/10/07 15:37		
COC Number		532448-03-01	532448-03-01		532448-03-01		
	UNITS	WG-160900764-20151007-RD15	WG-160900764-20151007-RD15 Lab-Dup	QC Batch	WG-160900764-20151007-RD16	RDL	QC Batch
Dissolved Cadmium (Cd)	mg/L	<0.00010		4234876	<0.00010	0.00010	4234876
Dissolved Calcium (Ca)	mg/L	34		4234876	9.0	0.20	4234876
Dissolved Chromium (Cr)	mg/L	<0.0050		4234876	<0.0050	0.0050	4234876
Dissolved Cobalt (Co)	mg/L	<0.00050		4234876	<0.00050	0.00050	4234876
Dissolved Copper (Cu)	mg/L	<0.0010		4234876	<0.0010	0.0010	4234876
Dissolved Iron (Fe)	mg/L	<0.10		4234876	<0.10	0.10	4234876
Dissolved Lead (Pb)	mg/L	<0.00050		4234876	<0.00050	0.00050	4234876
Dissolved Magnesium (Mg)	mg/L	29		4234876	5.0	0.050	4234876
Dissolved Manganese (Mn)	mg/L	0.055		4234876	0.0040	0.0020	4234876
Dissolved Molybdenum (Mo)	mg/L	0.0028		4234876	0.0068	0.00050	4234876
Dissolved Nickel (Ni)	mg/L	<0.0010		4234876	<0.0010	0.0010	4234876
Dissolved Phosphorus (P)	mg/L	<0.10		4234876	<0.10	0.10	4234876
Dissolved Potassium (K)	mg/L	2.6		4234876	2.2	0.20	4234876
Dissolved Selenium (Se)	mg/L	<0.0020		4234876	<0.0020	0.0020	4234876
Dissolved Silicon (Si)	mg/L	8.6		4234876	4.9	0.050	4234876
Dissolved Silver (Ag)	mg/L	<0.00010		4234876	<0.00010	0.00010	4234876
Dissolved Sodium (Na)	mg/L	11		4234876	29	0.10	4234876
Dissolved Strontium (Sr)	mg/L	0.57		4234876	0.24	0.0010	4234876
Dissolved Thallium (Tl)	mg/L	<0.000050		4234876	<0.000050	0.000050	4234876
Dissolved Titanium (Ti)	mg/L	<0.0050		4234876	<0.0050	0.0050	4234876
Dissolved Uranium (U)	mg/L	0.00057		4234876	<0.00010	0.00010	4234876
Dissolved Vanadium (V)	mg/L	<0.00050		4234876	<0.00050	0.00050	4234876
Dissolved Zinc (Zn)	mg/L	<0.0050		4234876	<0.0050	0.0050	4234876
Dissolved Zirconium (Zr)	mg/L	<0.0010		4234876	<0.0010	0.0010	4234876

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		BCZ958	BCZ958	BCZ960	BCZ963		BCZ965		
Sampling Date		2015/10/07 08:10	2015/10/07 08:10	2015/10/07 09:04	2015/10/07 12:38		2015/10/07 10:40		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01		532448-03-01		
	UNITS	WG-160900764 -20151007-RD10	WG-160900764 -20151007-RD10 Lab-Dup	WG-160900764 -20151007-RD11	WG-160900764 -20151007-RD12	QC Batch	WG-160900764 -20151007-RD13	RDL	QC Batch
Inorganics									
Acidity as CaC03	mg/L	10		<10	13	4226905	<10	10	4226905
Total Dissolved Solids	mg/L	296		298	458	4226877	224	10	4226877
Fluoride (F-)	mg/L	0.24	0.24	0.21	0.14	4225698	0.27	0.10	4225521
Free Cyanide	ug/L	<2		<2	<2	4221074	<2	2	4221074
Total Organic Carbon (TOC)	mg/L	1.4		0.84	0.98	4230782	0.55	0.20	4230782
Total Suspended Solids	mg/L	45		<10	17	4224306	<10	10	4224306
Turbidity	NTU	70		1.2	5.4	4225510	7.0	0.2	4225510

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		BCZ965		BCZ967		BCZ970	BCZ972		
Sampling Date		2015/10/07 10:40		2015/10/07 10:40		2015/10/07 14:05	2015/10/07 15:37		
COC Number		532448-03-01		532448-03-01		532448-03-01	532448-03-01		
	UNITS	WG-160900764 -20151007-RD13 Lab-Dup	QC Batch	WG-160900764 -20151007-RD14	QC Batch	WG-160900764 -20151007-RD15	WG-160900764 -20151007-RD16	RDL	QC Batch
Inorganics									
Acidity as CaC03	mg/L	<10	4226905	<10	4226905	<10	<10	10	4226905
Total Dissolved Solids	mg/L		4226877	224	4226877	220	118	10	4226877
Fluoride (F-)	mg/L		4225521	0.27	4225521	0.28	0.91	0.10	4225521
Free Cyanide	ug/L		4221074	<2	4221074	<2	<2	2	4221074
Total Organic Carbon (TOC)	mg/L		4230782	0.57	4230782	0.91	4.2	0.20	4230782
Total Suspended Solids	mg/L		4224306	<10	4224306	<10	42	10	4224306
Turbidity	NTU		4225510	6.5	4225506	3.7	160	0.2	4225510

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		BCZ958	BCZ958		BCZ960		BCZ963		
Sampling Date		2015/10/07 08:10	2015/10/07 08:10		2015/10/07 09:04		2015/10/07 12:38		
COC Number		532448-03-01	532448-03-01		532448-03-01		532448-03-01		
	UNITS	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10 Lab-Dup	QC Batch	WG-160900764-20151007-RD11	QC Batch	WG-160900764-20151007-RD12	RDL	QC Batch
Metals									
Chromium (VI)	ug/L	<0.50		4227154	<0.50	4227154	<0.50	0.50	4224688
Mercury (Hg)	mg/L	<0.00010	<0.00010	4226066	<0.00010	4226069	<0.00010	0.00010	4226066

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		BCZ965	BCZ967	BCZ967		BCZ970		
Sampling Date		2015/10/07 10:40	2015/10/07 10:40	2015/10/07 10:40		2015/10/07 14:05		
COC Number		532448-03-01	532448-03-01	532448-03-01		532448-03-01		
	UNITS	WG-160900764-20151007-RD13	WG-160900764-20151007-RD14	WG-160900764-20151007-RD14 Lab-Dup	QC Batch	WG-160900764-20151007-RD15	RDL	QC Batch
Metals								
Chromium (VI)	ug/L	<0.50	<0.50	<0.50	4224688	<0.50	0.50	4224688
Mercury (Hg)	mg/L	<0.00010	<0.00010		4226069	<0.00010	0.00010	4226066

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		BCZ972		
Sampling Date		2015/10/07 15:37		
COC Number		532448-03-01		
	UNITS	WG-160900764-20151007-RD16	RDL	QC Batch
Metals				
Chromium (VI)	ug/L	<0.50	0.50	4224688
Mercury (Hg)	mg/L	<0.00010	0.00010	4226066

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Report Date: 2015/10/19

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Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		BCZ974	BCZ976		
Sampling Date		2015/10/07 12:54	2015/10/07		
COC Number		532448-03-01	532448-03-01		
	UNITS	FIELD BLANK-1	TBLK-F1BB-15-3020	RDL	QC Batch
BTEX & F1 Hydrocarbons					
Benzene	ug/L		<0.20	0.20	4227151
Toluene	ug/L		<0.20	0.20	4227151
Ethylbenzene	ug/L		<0.20	0.20	4227151
o-Xylene	ug/L		<0.20	0.20	4227151
p+m-Xylene	ug/L		<0.40	0.40	4227151
Total Xylenes	ug/L		<0.40	0.40	4227151
F1 (C6-C10)	ug/L	<25	<25	25	4227151
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	4227151
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	101	99		4227151
4-Bromofluorobenzene	%	103	101		4227151
D10-Ethylbenzene	%	102	99		4227151
D4-1,2-Dichloroethane	%	97	95		4227151

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Sampler Initials: RD

O.REG 153 PCBS (WATER)

Maxxam ID		BCZ958	BCZ960	BCZ963	BCZ965	BCZ967		
Sampling Date		2015/10/07 08:10	2015/10/07 09:04	2015/10/07 12:38	2015/10/07 10:40	2015/10/07 10:40		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD10	WG-160900764-20151007-RD11	WG-160900764-20151007-RD12	WG-160900764-20151007-RD13	WG-160900764-20151007-RD14	RDL	QC Batch
PCBs								
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4224514
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4224514
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4224514
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4224514
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	4224514
Surrogate Recovery (%)								
Decachlorobiphenyl	%	91	78	84	79	81		4224514

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		BCZ970	BCZ972		
Sampling Date		2015/10/07 14:05	2015/10/07 15:37		
COC Number		532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD15	WG-160900764-20151007-RD16	RDL	QC Batch
PCBs					
Aroclor 1242	ug/L	<0.05	<0.05	0.05	4224514
Aroclor 1248	ug/L	<0.05	<0.05	0.05	4224514
Aroclor 1254	ug/L	<0.05	<0.05	0.05	4224514
Aroclor 1260	ug/L	<0.05	<0.05	0.05	4224514
Total PCB	ug/L	<0.05	<0.05	0.05	4224514
Surrogate Recovery (%)					
Decachlorobiphenyl	%	76	76		4224514

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCZ958	BCZ960	BCZ960	BCZ963	BCZ965		
Sampling Date		2015/10/07 08:10	2015/10/07 09:04	2015/10/07 09:04	2015/10/07 12:38	2015/10/07 10:40		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD10	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11 Lab-Dup	WG-160900764-20151007-RD12	WG-160900764-20151007-RD13	RDL	QC Batch
BTEX & F1 Hydrocarbons								
F1 (C6-C10)	ug/L	<25	<25		<25	<25	25	4227151
F1 (C6-C10) - BTEX	ug/L	<25	<25		<25	<25	25	4227151
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	100	4232928
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	4232928
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	4232928
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes		4232928
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	100	99		99	99		4227151
4-Bromofluorobenzene	%	103	104		103	104		4227151
D10-Ethylbenzene	%	100	100		99	100		4227151
D4-1,2-Dichloroethane	%	95	97		96	95		4227151
o-Terphenyl	%	95	96	95	96	96		4232928

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K5143
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Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BCZ967	BCZ970	BCZ972		
Sampling Date		2015/10/07 10:40	2015/10/07 14:05	2015/10/07 15:37		
COC Number		532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD14	WG-160900764-20151007-RD15	WG-160900764-20151007-RD16	RDL	QC Batch
BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/L	<25	<25	<25	25	4227151
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	4227151
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	4232928
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	4232928
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	4232928
Reached Baseline at C50	ug/L	Yes	Yes	Yes		4232928
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	100	100	100		4227151
4-Bromofluorobenzene	%	102	104	103		4227151
D10-Ethylbenzene	%	99	99	102		4227151
D4-1,2-Dichloroethane	%	95	95	97		4227151
o-Terphenyl	%	96	95	94		4232928

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ958	BCZ959	BCZ960	BCZ960		
Sampling Date		2015/10/07 08:10	2015/10/07 08:10	2015/10/07 09:04	2015/10/07 09:04		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10A	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11 Lab-Dup	RDL	QC Batch
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	4230614
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	4230614
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	4230614
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	4230614
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	4230614
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

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Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ958	BCZ959	BCZ960	BCZ960		
Sampling Date		2015/10/07 08:10	2015/10/07 08:10	2015/10/07 09:04	2015/10/07 09:04		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10A	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11 Lab-Dup	RDL	QC Batch
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	4230614
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28		0.28	4222147
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	76	77	75	79		4230614
2-Fluorobiphenyl	%	61	53	57	56		4230614
D14-Terphenyl (FS)	%	97	11 (1)	96	96		4230614
D5-Nitrobenzene	%	58	57	61	57		4230614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
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Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ962	BCZ963	BCZ964	BCZ965		
Sampling Date		2015/10/07 09:04	2015/10/07 12:38	2015/10/07 12:38	2015/10/07 10:40		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD11A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	WG-160900764-20151007-RD13	RDL	QC Batch
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	4230614
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	4230614
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	4230614
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	4230614
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	4230614
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ962	BCZ963	BCZ964	BCZ965		
Sampling Date		2015/10/07 09:04	2015/10/07 12:38	2015/10/07 12:38	2015/10/07 10:40		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD11A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	WG-160900764-20151007-RD13	RDL	QC Batch
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	4230614
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	4222147
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	78	79	72	74		4230614
2-Fluorobiphenyl	%	57	50	43 (1)	53		4230614
D14-Terphenyl (FS)	%	19 (1)	101	12 (1)	98		4230614
D5-Nitrobenzene	%	62	50	44 (1)	55		4230614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ966	BCZ967	BCZ969	BCZ970		
Sampling Date		2015/10/07 10:40	2015/10/07 10:40	2015/10/07 10:40	2015/10/07 14:05		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD13A	WG-160900764-20151007-RD14	WG-160900764-20151007-RD14A	WG-160900764-20151007-RD15	RDL	QC Batch
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	4230614
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	4230614
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	4230614
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	4230614
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	4230614
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ966	BCZ967	BCZ969	BCZ970		
Sampling Date		2015/10/07 10:40	2015/10/07 10:40	2015/10/07 10:40	2015/10/07 14:05		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD13A	WG-160900764-20151007-RD14	WG-160900764-20151007-RD14A	WG-160900764-20151007-RD15	RDL	QC Batch
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	4230614
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	4222147
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	79	81	68	79		4230614
2-Fluorobiphenyl	%	57	58	54	57		4230614
D14-Terphenyl (FS)	%	15 (1)	99	18 (1)	96		4230614
D5-Nitrobenzene	%	62	63	58	62		4230614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ971	BCZ972	BCZ973	BCZ974		
Sampling Date		2015/10/07 14:05	2015/10/07 15:37	2015/10/07 15:37	2015/10/07 12:54		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD15A	WG-160900764-20151007-RD16	WG-160900764-20151007-RD16A	FIELD BLANK-1	RDL	QC Batch
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	4230614
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	4230614
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	4230614
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	4230614
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	<1	<1	1	4230614
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	4230614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BCZ971	BCZ972	BCZ973	BCZ974		
Sampling Date		2015/10/07 14:05	2015/10/07 15:37	2015/10/07 15:37	2015/10/07 12:54		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD15A	WG-160900764-20151007-RD16	WG-160900764-20151007-RD16A	FIELD BLANK-1	RDL	QC Batch
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	4230614
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	4230614
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	4230614
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	4230614
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	4222147
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	74	73	83	68		4230614
2-Fluorobiphenyl	%	53	68	62	46 (1)		4230614
D14-Terphenyl (FS)	%	13 (1)	99	18 (1)	97		4230614
D5-Nitrobenzene	%	57	69	69	45 (1)		4230614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BDB352		BDB353		
Sampling Date		2015/10/07		2015/10/07		
COC Number		532448-03-01		532448-03-01		
	UNITS	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	0.1	39 (1)	1	4230614
1-Methylnaphthalene	ug/L	<0.2	0.2	64	1	4230614
2,4,5-Trichlorophenol	ug/L	<0.2	0.2	87	1	4230614
2,4,6-Trichlorophenol	ug/L	<0.2	0.2	80	1	4230614
2,4-Dichlorophenol	ug/L	<0.1	0.1	64	1	4230614
2,4-Dimethylphenol	ug/L	<0.5	0.5	39	1	4230614
2,4-Dinitrophenol	ug/L	<2	2	2 (1)	1	4230614
2,4-Dinitrotoluene	ug/L	<0.3	0.3	90	1	4230614
2,6-Dinitrotoluene	ug/L	<0.3	0.3	85	1	4230614
2-Chlorophenol	ug/L	<0.1	0.1	59	1	4230614
2-Methylnaphthalene	ug/L	<0.2	0.2	58	1	4230614
3,3'-Dichlorobenzidine	ug/L	<0.5	0.5	97	1	4230614
Acenaphthene	ug/L	<0.2	0.2	76	1	4230614
Acenaphthylene	ug/L	<0.2	0.2	75	1	4230614
Anthracene	ug/L	<0.05	0.05	40 (1)	1	4230614
Benzo(a)anthracene	ug/L	<0.05	0.05	22 (1)	1	4230614
Benzo(a)pyrene	ug/L	<0.01	0.01	16 (1)	1	4230614
Benzo(b/j)fluoranthene	ug/L	<0.05	0.05	20 (1)	1	4230614
Benzo(g,h,i)perylene	ug/L	<0.05	0.05	15 (1)	1	4230614
Benzo(k)fluoranthene	ug/L	<0.05	0.05	18 (1)	1	4230614
Biphenyl	ug/L	<0.1	0.1	67	1	4230614
Bis(2-chloroethyl)ether	ug/L	<0.5	0.5	63	1	4230614
Bis(2-chloroisopropyl)ether	ug/L	<0.5	0.5	54	1	4230614
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	40 (1)	1	4230614
Chrysene	ug/L	<0.05	0.05	18 (1)	1	4230614
Dibenz(a,h)anthracene	ug/L	<0.1	0.1	14 (1)	1	4230614
Diethyl phthalate	ug/L	<0.1	0.1	84	1	4230614
Dimethyl phthalate	ug/L	<0.1	0.1	89	1	4230614
Fluoranthene	ug/L	<0.2	0.2	46 (1)	1	4230614
Fluorene	ug/L	<0.2	0.2	77	1	4230614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BDB352		BDB353		
Sampling Date		2015/10/07		2015/10/07		
COC Number		532448-03-01		532448-03-01		
	UNITS	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	0.1	14 (1)	1	4230614
Naphthalene	ug/L	<0.2	0.2	57	1	4230614
p-Chloroaniline	ug/L	<1	1	76	1	4230614
Pentachlorophenol	ug/L	<0.1	0.1	14 (1)	1	4230614
Phenanthrene	ug/L	<0.1	0.1	66	1	4230614
Phenol	ug/L	<0.5	0.5	28 (1)	1	4230614
Pyrene	ug/L	<0.05	0.05	47 (1)	1	4230614
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.28	0.28			4222147
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	67		84		4230614
2-Fluorobiphenyl	%	50		55		4230614
D14-Terphenyl (FS)	%	16 (1)		42 (1)		4230614
D5-Nitrobenzene	%	56		62		4230614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCZ958	BCZ960	BCZ963	BCZ965	BCZ967		
Sampling Date		2015/10/07 08:10	2015/10/07 09:04	2015/10/07 12:38	2015/10/07 10:40	2015/10/07 10:40		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD10	WG-160900764-20151007-RD11	WG-160900764-20151007-RD12	WG-160900764-20151007-RD13	WG-160900764-20151007-RD14	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4222148
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	10	4224175
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4224175
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4224175
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	4224175
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	4224175
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4224175
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4224175
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	4224175
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	<10	10	4224175
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCZ958	BCZ960	BCZ963	BCZ965	BCZ967		
Sampling Date		2015/10/07 08:10	2015/10/07 09:04	2015/10/07 12:38	2015/10/07 10:40	2015/10/07 10:40		
COC Number		532448-03-01	532448-03-01	532448-03-01	532448-03-01	532448-03-01		
	UNITS	WG-160900764-20151007-RD10	WG-160900764-20151007-RD11	WG-160900764-20151007-RD12	WG-160900764-20151007-RD13	WG-160900764-20151007-RD14	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	4224175
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4224175
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	100	99	99	99	99		4224175
D4-1,2-Dichloroethane	%	99	98	99	100	100		4224175
D8-Toluene	%	104	103	102	103	103		4224175

RDL = Reportable Detection Limit
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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCZ970	BCZ972		BCZ974		
Sampling Date		2015/10/07 14:05	2015/10/07 15:37		2015/10/07 12:54		
COC Number		532448-03-01	532448-03-01		532448-03-01		
	UNITS	WG-160900764-20151007-RD15	WG-160900764-20151007-RD16	QC Batch	FIELD BLANK-1	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	4222148	<0.50	0.50	4223895
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	4224175	<10	10	4224748
Benzene	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
Bromodichloromethane	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
Bromoform	ug/L	<1.0	<1.0	4224175	<1.0	1.0	4224748
Bromomethane	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
Carbon Tetrachloride	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
Chlorobenzene	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
Chloroform	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
Dibromochloromethane	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	4224175	<1.0	1.0	4224748
1,1-Dichloroethane	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
1,2-Dichloroethane	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
1,1-Dichloroethylene	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
1,2-Dichloropropane	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	4224175	<0.30	0.30	4224748
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	4224175	<0.40	0.40	4224748
Ethylbenzene	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
Ethylene Dibromide	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
Hexane	ug/L	<1.0	<1.0	4224175	<1.0	1.0	4224748
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	4224175	<2.0	2.0	4224748
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	4224175	<5.0	5.0	4224748
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	4224175	<10	10	4224748
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
Styrene	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BCZ970	BCZ972		BCZ974		
Sampling Date		2015/10/07 14:05	2015/10/07 15:37		2015/10/07 12:54		
COC Number		532448-03-01	532448-03-01		532448-03-01		
	UNITS	WG-160900764-20151007-RD15	WG-160900764-20151007-RD16	QC Batch	FIELD BLANK-1	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
Tetrachloroethylene	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
Toluene	ug/L	<0.20	0.57	4224175	<0.20	0.20	4224748
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
Trichloroethylene	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
Vinyl Chloride	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
p+m-Xylene	ug/L	<0.20	0.41	4224175	<0.20	0.20	4224748
o-Xylene	ug/L	<0.20	<0.20	4224175	<0.20	0.20	4224748
Total Xylenes	ug/L	<0.20	0.41	4224175	<0.20	0.20	4224748
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	4224175	<0.50	0.50	4224748
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	100	98	4224175	99		4224748
D4-1,2-Dichloroethane	%	99	99	4224175	105		4224748
D8-Toluene	%	103	103	4224175	99		4224748

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5143
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Stantec Consulting Ltd
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Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCZ958
Sample ID: WG-160900764-20151007-RD10
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225696	N/A	2015/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/19	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/19	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225792	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225697	N/A	2015/10/13	Surinder Rai
Chromium (VI) in Water	IC	4227154	N/A	2015/10/14	Lang Le
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224289	N/A	2015/10/10	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4227151	N/A	2015/10/14	Jiaxuan (Simon) Xi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4232928	2015/10/16	2015/10/16	Zhiyue (Frank) Zhu
Fluoride	ISE	4225698	2015/10/10	2015/10/13	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/19	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4226066	2015/10/11	2015/10/14	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4234876	N/A	2015/10/19	Prempal Bhatti
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/19	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/19	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4230530	N/A	2015/10/16	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225653	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225699	N/A	2015/10/13	Surinder Rai
Orthophosphate	KONE	4225794	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/19	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/19	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225795	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/19	Ewa Pranjic
Total Dissolved Solids	BAL	4226877	N/A	2015/10/16	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4230782	N/A	2015/10/15	Anastasia Hamanov
Total Suspended Solids	BAL	4224306	N/A	2015/10/11	Gurpreet Kaur
Turbidity	AT	4225510	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4224175	N/A	2015/10/10	Manpreet Sarao

Maxxam ID: BCZ958 Dup
Sample ID: WG-160900764-20151007-RD10
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	4225696	N/A	2015/10/13	Surinder Rai
Conductivity	AT	4225697	N/A	2015/10/13	Surinder Rai
Fluoride	ISE	4225698	2015/10/10	2015/10/13	Surinder Rai
Mercury in Water by CVAA	CV/AA	4226066	2015/10/11	2015/10/14	Magdalena Carlos

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCZ958 Dup
Sample ID: WG-160900764-20151007-RD10
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	4234876	N/A	2015/10/19	Prempal Bhatti
pH	AT	4225699	N/A	2015/10/13	Surinder Rai

Maxxam ID: BCZ959
Sample ID: WG-160900764-20151007-RD10A
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic

Maxxam ID: BCZ960
Sample ID: WG-160900764-20151007-RD11
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225696	N/A	2015/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/19	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/19	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225792	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225697	N/A	2015/10/13	Surinder Rai
Chromium (VI) in Water	IC	4227154	N/A	2015/10/14	Lang Le
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224282	N/A	2015/10/09	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4227151	N/A	2015/10/14	Jiaxuan (Simon) Xi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4232928	2015/10/16	2015/10/16	Zhiyue (Frank) Zhu
Fluoride	ISE	4225698	2015/10/10	2015/10/13	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/19	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4226069	2015/10/11	2015/10/13	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	4234876	N/A	2015/10/19	Prempal Bhatti
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/19	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/19	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4230530	N/A	2015/10/16	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225653	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225699	N/A	2015/10/13	Surinder Rai
Orthophosphate	KONE	4225794	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/19	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/19	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225795	N/A	2015/10/13	Alina Dobreanu

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Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCZ960
Sample ID: WG-160900764-20151007-RD11
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/19	Ewa Pranjic
Total Dissolved Solids	BAL	4226877	N/A	2015/10/16	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4230782	N/A	2015/10/15	Anastasia Hamanov
Total Suspended Solids	BAL	4224306	N/A	2015/10/11	Gurpreet Kaur
Turbidity	AT	4225510	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4224175	N/A	2015/10/10	Manpreet Sarao

Maxxam ID: BCZ960 Dup
Sample ID: WG-160900764-20151007-RD11
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4232928	2015/10/16	2015/10/16	Zhiyue (Frank) Zhu

Maxxam ID: BCZ962
Sample ID: WG-160900764-20151007-RD11A
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic

Maxxam ID: BCZ963
Sample ID: WG-160900764-20151007-RD12
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225696	N/A	2015/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/19	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/19	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225792	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225697	N/A	2015/10/13	Surinder Rai
Chromium (VI) in Water	IC	4224688	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224282	N/A	2015/10/09	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4227151	N/A	2015/10/14	Jiaxuan (Simon) Xi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4232928	2015/10/16	2015/10/16	Zhiyue (Frank) Zhu
Fluoride	ISE	4225698	2015/10/10	2015/10/13	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/19	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4226066	2015/10/11	2015/10/14	Magdalena Carlos

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCZ963
Sample ID: WG-160900764-20151007-RD12
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	4234876	N/A	2015/10/19	Prempal Bhatti
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/19	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/19	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4230530	N/A	2015/10/16	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225653	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225699	N/A	2015/10/13	Surinder Rai
Orthophosphate	KONE	4225794	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/19	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/19	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225795	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/19	Ewa Pranjic
Total Dissolved Solids	BAL	4226877	N/A	2015/10/16	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4230782	N/A	2015/10/15	Anastasia Hamanov
Total Suspended Solids	BAL	4224306	N/A	2015/10/11	Gurpreet Kaur
Turbidity	AT	4225510	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4224175	N/A	2015/10/10	Manpreet Sarao

Maxxam ID: BCZ964
Sample ID: WG-160900764-20151007-RD12A
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic

Maxxam ID: BCZ965
Sample ID: WG-160900764-20151007-RD13
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225512	N/A	2015/10/10	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/19	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/19	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225792	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225520	N/A	2015/10/10	Surinder Rai
Chromium (VI) in Water	IC	4224688	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224289	N/A	2015/10/10	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4227151	N/A	2015/10/14	Jiaxuan (Simon) Xi

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCZ965
Sample ID: WG-160900764-20151007-RD13
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4232928	2015/10/16	2015/10/16	Zhiyue (Frank) Zhu
Fluoride	ISE	4225521	2015/10/09	2015/10/10	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/19	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4226069	2015/10/11	2015/10/13	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	4234876	N/A	2015/10/19	Prempal Bhatti
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/19	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/19	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4230530	N/A	2015/10/16	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225707	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225522	N/A	2015/10/10	Surinder Rai
Orthophosphate	KONE	4225794	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/19	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/19	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225795	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/19	Ewa Pranjic
Total Dissolved Solids	BAL	4226877	N/A	2015/10/16	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4230782	N/A	2015/10/15	Anastasia Hamanov
Total Suspended Solids	BAL	4224306	N/A	2015/10/11	Gurpreet Kaur
Turbidity	AT	4225510	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4224175	N/A	2015/10/10	Manpreet Sarao

Maxxam ID: BCZ965 Dup
Sample ID: WG-160900764-20151007-RD13
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison

Maxxam ID: BCZ966
Sample ID: WG-160900764-20151007-RD13A
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic

Maxxam ID: BCZ967
Sample ID: WG-160900764-20151007-RD14
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic

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Report Date: 2015/10/19

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Your P.O. #: 1609
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TEST SUMMARY

Maxxam ID: BCZ967
Sample ID: WG-160900764-20151007-RD14
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225512	N/A	2015/10/10	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/19	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/19	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225678	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225520	N/A	2015/10/10	Surinder Rai
Chromium (VI) in Water	IC	4224688	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224289	N/A	2015/10/10	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4227151	N/A	2015/10/14	Jiaxuan (Simon) Xi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4232928	2015/10/16	2015/10/16	Zhiyue (Frank) Zhu
Fluoride	ISE	4225521	2015/10/09	2015/10/10	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/19	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4226069	2015/10/11	2015/10/13	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	4234876	N/A	2015/10/19	Prempal Bhatti
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/19	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/19	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4230530	N/A	2015/10/16	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225653	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225522	N/A	2015/10/10	Surinder Rai
Orthophosphate	KONE	4225680	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/19	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/19	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225679	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/19	Ewa Pranjic
Total Dissolved Solids	BAL	4226877	N/A	2015/10/16	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4230782	N/A	2015/10/15	Anastasia Hamanov
Total Suspended Solids	BAL	4224306	N/A	2015/10/11	Gurpreet Kaur
Turbidity	AT	4225506	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4224175	N/A	2015/10/10	Manpreet Sarao

Maxxam ID: BCZ967 Dup
Sample ID: WG-160900764-20151007-RD14
Matrix: Water

Collected: 2015/10/07
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Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	4224688	N/A	2015/10/13	Lang Le

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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCZ969
Sample ID: WG-160900764-20151007-RD14A
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic

Maxxam ID: BCZ970
Sample ID: WG-160900764-20151007-RD15
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225512	N/A	2015/10/10	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/19	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/19	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225678	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225520	N/A	2015/10/10	Surinder Rai
Chromium (VI) in Water	IC	4224688	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224289	N/A	2015/10/09	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4227151	N/A	2015/10/14	Jiaxuan (Simon) Xi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4232928	2015/10/16	2015/10/16	Zhiyue (Frank) Zhu
Fluoride	ISE	4225521	2015/10/09	2015/10/10	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/19	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4226066	2015/10/11	2015/10/14	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4234876	N/A	2015/10/19	Prempal Bhatti
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/19	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/19	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4230530	N/A	2015/10/16	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225707	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225522	N/A	2015/10/10	Surinder Rai
Orthophosphate	KONE	4225680	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/19	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/19	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225679	N/A	2015/10/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/19	Ewa Pranjic
Total Dissolved Solids	BAL	4226877	N/A	2015/10/16	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4230782	N/A	2015/10/15	Anastasia Hamanov
Total Suspended Solids	BAL	4224306	N/A	2015/10/11	Gurpreet Kaur
Turbidity	AT	4225510	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4224175	N/A	2015/10/10	Manpreet Sarao

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Your P.O. #: 1609
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TEST SUMMARY

Maxxam ID: BCZ970 Dup
Sample ID: WG-160900764-20151007-RD15
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224289	N/A	2015/10/09	Anastasia Hamanov
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225707	N/A	2015/10/13	Chandra Nandlal

Maxxam ID: BCZ971
Sample ID: WG-160900764-20151007-RD15A
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic

Maxxam ID: BCZ972
Sample ID: WG-160900764-20151007-RD16
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic
Acidity as CaC03 in liquid		4226905	2015/10/13	2015/10/15	Grace Sison
Alkalinity	AT	4225512	N/A	2015/10/10	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/19	Ewa Pranjic
1,3-Dichloropropene Sum	CALC	4222148	N/A	2015/10/19	Ewa Pranjic
Chloride by Automated Colourimetry	KONE	4225678	N/A	2015/10/13	Deonarine Ramnarine
Conductivity	AT	4225520	N/A	2015/10/10	Surinder Rai
Chromium (VI) in Water	IC	4224688	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224289	N/A	2015/10/10	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4227151	N/A	2015/10/14	Jiaxuan (Simon) Xi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4232928	2015/10/16	2015/10/16	Zhiyue (Frank) Zhu
Fluoride	ISE	4225521	2015/10/09	2015/10/10	Surinder Rai
Hardness (calculated as CaCO3)		4222238	N/A	2015/10/19	Ewa Pranjic
Mercury in Water by CVAA	CV/AA	4226066	2015/10/11	2015/10/14	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4234876	N/A	2015/10/19	Prempal Bhatti
Ion Balance (% Difference)	CALC	4223114	N/A	2015/10/19	Ewa Pranjic
Anion and Cation Sum	CALC	4223115	N/A	2015/10/19	Ewa Pranjic
Total Ammonia-N	LACH/NH4	4230530	N/A	2015/10/16	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4225653	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225522	N/A	2015/10/10	Surinder Rai
Orthophosphate	KONE	4225680	N/A	2015/10/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/19	Ewa Pranjic
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/19	Ewa Pranjic
Sulphate by Automated Colourimetry	KONE	4225679	N/A	2015/10/13	Alina Dobreanu

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BCZ972 **Collected:** 2015/10/07
Sample ID: WG-160900764-20151007-RD16 **Shipped:**
Matrix: Water **Received:** 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/19	Ewa Pranjic
Total Dissolved Solids	BAL	4226877	N/A	2015/10/16	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4230782	N/A	2015/10/15	Anastasia Hamanov
Total Suspended Solids	BAL	4224306	N/A	2015/10/11	Gurpreet Kaur
Turbidity	AT	4225510	N/A	2015/10/10	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4224175	N/A	2015/10/10	Manpreet Sarao

Maxxam ID: BCZ973 **Collected:** 2015/10/07
Sample ID: WG-160900764-20151007-RD16A **Shipped:**
Matrix: Water **Received:** 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic

Maxxam ID: BCZ974 **Collected:** 2015/10/07
Sample ID: FIELD BLANK-1 **Shipped:**
Matrix: Water **Received:** 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	4223895	N/A	2015/10/19	Ewa Pranjic
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4227151	N/A	2015/10/14	Jiaxuan (Simon) Xi
Volatile Organic Compounds in Water	GC/MS	4224748	N/A	2015/10/13	Karen Hughes

Maxxam ID: BCZ976 **Collected:** 2015/10/07
Sample ID: TBLK-F1BB-15-3020 **Shipped:**
Matrix: Water **Received:** 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4227151	N/A	2015/10/14	Jiaxuan (Simon) Xi

Maxxam ID: BDB352 **Collected:** 2015/10/07
Sample ID: FILTERED BLANK **Shipped:**
Matrix: Water **Received:** 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/19	Ewa Pranjic
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic

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Maxxam Job #: B5K5143
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Sampler Initials: RD

TEST SUMMARY

Maxxam ID: BDB353
Sample ID: FILTERED SPIKE
Matrix: Water

Collected: 2015/10/07
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	4230614	2015/10/15	2015/10/17	Milijana Avramovic

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.0°C
Package 2	6.3°C
Package 3	3.0°C
Package 4	6.3°C
Package 5	7.3°C
Package 6	5.0°C
Package 7	4.7°C
Package 8	7.7°C
Package 9	4.7°C
Package 10	5.7°C
Package 11	4.7°C
Package 12	5.7°C
Package 13	4.7°C
Package 14	6.0°C

ABN Analysis: Some samples were filtered and surrogate and spike solutions were added pior to filtration.

Sample BCZ972-01 : Acidity: Sample initial pH was >8.3, therefore acidity was not detected (ND).

Sample BDB353-01 : ABN analysis:Data are reported as percentage recoveries.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
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			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4224175	4-Bromofluorobenzene	2015/10/10	101	70 - 130	101	70 - 130	102	%				
4224175	D4-1,2-Dichloroethane	2015/10/10	97	70 - 130	98	70 - 130	98	%				
4224175	D8-Toluene	2015/10/10	104	70 - 130	103	70 - 130	102	%				
4224514	Decachlorobiphenyl	2015/10/13	85	60 - 130	78	60 - 130	93	%				
4224748	4-Bromofluorobenzene	2015/10/13	100	70 - 130	102	70 - 130	99	%				
4224748	D4-1,2-Dichloroethane	2015/10/13	109	70 - 130	107	70 - 130	109	%				
4224748	D8-Toluene	2015/10/13	98	70 - 130	98	70 - 130	96	%				
4227151	1,4-Difluorobenzene	2015/10/13	100	70 - 130	98	70 - 130	99	%				
4227151	4-Bromofluorobenzene	2015/10/13	110	70 - 130	107	70 - 130	104	%				
4227151	D10-Ethylbenzene	2015/10/13	103	70 - 130	97	70 - 130	95	%				
4227151	D4-1,2-Dichloroethane	2015/10/13	93	70 - 130	95	70 - 130	96	%				
4230614	2,4,6-Tribromophenol	2015/10/17	92	50 - 130	86	50 - 130	75	%				
4230614	2-Fluorobiphenyl	2015/10/17	61	50 - 130	61	50 - 130	64	%				
4230614	D14-Terphenyl (FS)	2015/10/17	98	50 - 130	97	50 - 130	97	%				
4230614	D5-Nitrobenzene	2015/10/17	65	50 - 130	64	50 - 130	63	%				
4232928	o-Terphenyl	2015/10/16	97	60 - 130	97	60 - 130	95	%				
4221074	Free Cyanide	2015/10/13	106	80 - 120	105	80 - 120	<2	ug/L	NC	20		
4224175	1,1,1,2-Tetrachloroethane	2015/10/10	94	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
4224175	1,1,1-Trichloroethane	2015/10/10	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
4224175	1,1,2,2-Tetrachloroethane	2015/10/10	95	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4224175	1,1,2-Trichloroethane	2015/10/10	92	70 - 130	90	70 - 130	<0.50	ug/L	NC	30		
4224175	1,1-Dichloroethane	2015/10/10	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4224175	1,1-Dichloroethylene	2015/10/10	104	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
4224175	1,2-Dichlorobenzene	2015/10/10	97	70 - 130	94	70 - 130	<0.50	ug/L	NC	30		
4224175	1,2-Dichloroethane	2015/10/10	93	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4224175	1,2-Dichloropropane	2015/10/10	91	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
4224175	1,3-Dichlorobenzene	2015/10/10	91	70 - 130	88	70 - 130	<0.50	ug/L	NC	30		
4224175	1,4-Dichlorobenzene	2015/10/10	98	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
4224175	Acetone (2-Propanone)	2015/10/10	94	60 - 140	91	60 - 140	<10	ug/L	NC	30		
4224175	Benzene	2015/10/10	93	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4224175	Bromodichloromethane	2015/10/10	98	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
4224175	Bromoform	2015/10/10	91	70 - 130	89	70 - 130	<1.0	ug/L	NC	30		
4224175	Bromomethane	2015/10/10	83	60 - 140	82	60 - 140	<0.50	ug/L	NC	30		
4224175	Carbon Tetrachloride	2015/10/10	94	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
4224175	Chlorobenzene	2015/10/10	107	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
4224175	Chloroform	2015/10/10	94	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
4224175	cis-1,2-Dichloroethylene	2015/10/10	99	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
4224175	cis-1,3-Dichloropropene	2015/10/10	92	70 - 130	88	70 - 130	<0.30	ug/L	NC	30		
4224175	Dibromochloromethane	2015/10/10	94	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4224175	Dichlorodifluoromethane (FREON 12)	2015/10/10	99	60 - 140	98	60 - 140	<1.0	ug/L	NC	30		
4224175	Ethylbenzene	2015/10/10	102	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
4224175	Ethylene Dibromide	2015/10/10	92	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
4224175	Hexane	2015/10/10	103	70 - 130	102	70 - 130	<1.0	ug/L	NC	30		
4224175	Methyl Ethyl Ketone (2-Butanone)	2015/10/10	103	60 - 140	100	60 - 140	<10	ug/L	NC	30		
4224175	Methyl Isobutyl Ketone	2015/10/10	103	70 - 130	100	70 - 130	<5.0	ug/L	NC	30		
4224175	Methyl t-butyl ether (MTBE)	2015/10/10	94	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4224175	Methylene Chloride(Dichloromethane)	2015/10/10	99	70 - 130	98	70 - 130	<2.0	ug/L	NC	30		
4224175	o-Xylene	2015/10/10	94	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
4224175	p+m-Xylene	2015/10/10	86	70 - 130	83	70 - 130	<0.20	ug/L	NC	30		
4224175	Styrene	2015/10/10	94	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
4224175	Tetrachloroethylene	2015/10/10	93	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
4224175	Toluene	2015/10/10	96	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
4224175	Total Xylenes	2015/10/10					<0.20	ug/L	NC	30		
4224175	trans-1,2-Dichloroethylene	2015/10/10	93	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
4224175	trans-1,3-Dichloropropene	2015/10/10	105	70 - 130	99	70 - 130	<0.40	ug/L	NC	30		
4224175	Trichloroethylene	2015/10/10	93	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
4224175	Trichlorofluoromethane (FREON 11)	2015/10/10	100	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4224175	Vinyl Chloride	2015/10/10	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
4224282	Dissolved Organic Carbon	2015/10/09	101	80 - 120	102	80 - 120	<0.20	mg/L	NC	20		
4224289	Dissolved Organic Carbon	2015/10/09	101	80 - 120	102	80 - 120	<0.20	mg/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4224306	Total Suspended Solids	2015/10/11					<10	mg/L	NC	25	99	85 - 115
4224514	Aroclor 1242	2015/10/13					<0.05	ug/L	NC	30		
4224514	Aroclor 1248	2015/10/13					<0.05	ug/L	NC	30		
4224514	Aroclor 1254	2015/10/13					<0.05	ug/L	NC	30		
4224514	Aroclor 1260	2015/10/13	76	60 - 130	67	60 - 130	<0.05	ug/L	NC	30		
4224514	Total PCB	2015/10/13	76	60 - 130	67	60 - 130	<0.05	ug/L	NC	40		
4224688	Chromium (VI)	2015/10/13	107	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
4224748	1,1,1,2-Tetrachloroethane	2015/10/13	94	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
4224748	1,1,1-Trichloroethane	2015/10/13	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
4224748	1,1,2,2-Tetrachloroethane	2015/10/13	98	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4224748	1,1,2-Trichloroethane	2015/10/13	96	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
4224748	1,1-Dichloroethane	2015/10/13	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
4224748	1,1-Dichloroethylene	2015/10/13	105	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
4224748	1,2-Dichlorobenzene	2015/10/13	94	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
4224748	1,2-Dichloroethane	2015/10/13	101	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
4224748	1,2-Dichloropropane	2015/10/13	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4224748	1,3-Dichlorobenzene	2015/10/13	88	70 - 130	90	70 - 130	<0.50	ug/L	NC	30		
4224748	1,4-Dichlorobenzene	2015/10/13	95	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
4224748	Acetone (2-Propanone)	2015/10/13	116	60 - 140	122	60 - 140	<10	ug/L	NC	30		
4224748	Benzene	2015/10/13	95	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
4224748	Bromodichloromethane	2015/10/13	104	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
4224748	Bromoform	2015/10/13	91	70 - 130	93	70 - 130	<1.0	ug/L	NC	30		
4224748	Bromomethane	2015/10/13	97	60 - 140	99	60 - 140	<0.50	ug/L	NC	30		
4224748	Carbon Tetrachloride	2015/10/13	94	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
4224748	Chlorobenzene	2015/10/13	105	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
4224748	Chloroform	2015/10/13	98	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
4224748	cis-1,2-Dichloroethylene	2015/10/13	107	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
4224748	cis-1,3-Dichloropropene	2015/10/13	98	70 - 130	96	70 - 130	<0.30	ug/L	NC	30		
4224748	Dibromochloromethane	2015/10/13	93	70 - 130	93	70 - 130	<0.50	ug/L	NC	30		
4224748	Dichlorodifluoromethane (FREON 12)	2015/10/13	119	60 - 140	122	60 - 140	<1.0	ug/L	NC	30		

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Your P.O. #: 1609
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4224748	Ethylbenzene	2015/10/13	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
4224748	Ethylene Dibromide	2015/10/13	93	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4224748	Hexane	2015/10/13	97	70 - 130	97	70 - 130	<1.0	ug/L	NC	30		
4224748	Methyl Ethyl Ketone (2-Butanone)	2015/10/13	103	60 - 140	104	60 - 140	<10	ug/L	NC	30		
4224748	Methyl Isobutyl Ketone	2015/10/13	104	70 - 130	104	70 - 130	<5.0	ug/L	NC	30		
4224748	Methyl t-butyl ether (MTBE)	2015/10/13	96	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
4224748	Methylene Chloride(Dichloromethane)	2015/10/13	108	70 - 130	107	70 - 130	<2.0	ug/L	NC	30		
4224748	o-Xylene	2015/10/13	89	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
4224748	p+m-Xylene	2015/10/13	81	70 - 130	84	70 - 130	<0.20	ug/L	NC	30		
4224748	Styrene	2015/10/13	88	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4224748	Tetrachloroethylene	2015/10/13	87	70 - 130	89	70 - 130	<0.20	ug/L	1.5	30		
4224748	Toluene	2015/10/13	90	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
4224748	Total Xylenes	2015/10/13					<0.20	ug/L	NC	30		
4224748	trans-1,2-Dichloroethylene	2015/10/13	95	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
4224748	trans-1,3-Dichloropropene	2015/10/13	103	70 - 130	99	70 - 130	<0.40	ug/L	NC	30		
4224748	Trichloroethylene	2015/10/13	93	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
4224748	Trichlorofluoromethane (FREON 11)	2015/10/13	108	70 - 130	109	70 - 130	<0.50	ug/L	NC	30		
4224748	Vinyl Chloride	2015/10/13	113	70 - 130	113	70 - 130	<0.20	ug/L	NC	30		
4225506	Turbidity	2015/10/10			100	85 - 115	0.2, RDL=0.2	NTU	NC	20		
4225510	Turbidity	2015/10/10			108	85 - 115	<0.2	NTU	7.8	20		
4225512	Alkalinity (Total as CaCO3)	2015/10/10			96	85 - 115	<1.0	mg/L	0.88	25		
4225520	Conductivity	2015/10/10			101	85 - 115	<1.0	umho/cm	1.0	25		
4225521	Fluoride (F-)	2015/10/10	99	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
4225522	pH	2015/10/10			102	98 - 103			0.46	N/A		
4225653	Nitrate (N)	2015/10/13	106	80 - 120	100	80 - 120	<0.10	mg/L	NC	25		
4225653	Nitrite (N)	2015/10/13	108	80 - 120	98	80 - 120	<0.010	mg/L	NC	25		
4225678	Dissolved Chloride (Cl)	2015/10/13	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.98	20		
4225679	Dissolved Sulphate (SO4)	2015/10/13	NC	75 - 125	98	80 - 120	<1.0	mg/L	0.54	20		
4225680	Orthophosphate (P)	2015/10/13	109	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4225696	Alkalinity (Total as CaCO3)	2015/10/13			96	85 - 115	<1.0	mg/L	0.50	25		
4225697	Conductivity	2015/10/13			99	85 - 115	<1.0	umho/cm	0.19	25		
4225698	Fluoride (F-)	2015/10/13	104	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
4225699	pH	2015/10/13			101	98 - 103			0.66	N/A		
4225707	Nitrate (N)	2015/10/13	104	80 - 120	100	80 - 120	<0.10	mg/L	NC	25		
4225707	Nitrite (N)	2015/10/13	106	80 - 120	98	80 - 120	<0.010	mg/L	NC	25		
4225792	Dissolved Chloride (Cl)	2015/10/13	117	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
4225794	Orthophosphate (P)	2015/10/13	108	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
4225795	Dissolved Sulphate (SO4)	2015/10/13	106	75 - 125	99	80 - 120	<1.0	mg/L	0.91	20		
4226066	Mercury (Hg)	2015/10/14	115	75 - 125	99	80 - 120	<0.00010	mg/L	NC	20		
4226069	Mercury (Hg)	2015/10/13	111	75 - 125	106	80 - 120	<0.00010	mg/L	NC	20		
4226877	Total Dissolved Solids	2015/10/16					<10	mg/L	1.6	25	101	90 - 110
4226905	Acidity as CaC03	2015/10/15					<10	mg/L	NC	25		
4227151	Benzene	2015/10/13	94	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
4227151	Ethylbenzene	2015/10/13	96	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
4227151	F1 (C6-C10) - BTEX	2015/10/13					<25	ug/L	NC	30		
4227151	F1 (C6-C10)	2015/10/13	86	70 - 130	101	70 - 130	<25	ug/L	NC	30		
4227151	o-Xylene	2015/10/13	98	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
4227151	p+m-Xylene	2015/10/13	91	70 - 130	86	70 - 130	<0.40	ug/L	NC	30		
4227151	Toluene	2015/10/13	92	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
4227151	Total Xylenes	2015/10/13					<0.40	ug/L	NC	30		
4227154	Chromium (VI)	2015/10/14	103	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
4230530	Total Ammonia-N	2015/10/16	98	80 - 120	101	85 - 115	<0.050	mg/L	NC	20		
4230614	1,2,4-Trichlorobenzene	2015/10/17	47	40 - 130	48	40 - 130	<0.1	ug/L	NC	30		
4230614	1-Methylnaphthalene	2015/10/17	74	50 - 130	71	50 - 130	<0.2	ug/L	NC	30		
4230614	2,4,5-Trichlorophenol	2015/10/17	92	50 - 130	88	50 - 130	<0.2	ug/L	NC	30		
4230614	2,4,6-Trichlorophenol	2015/10/17	90	50 - 130	85	50 - 130	<0.2	ug/L	NC	30		
4230614	2,4-Dichlorophenol	2015/10/17	74	50 - 130	75	50 - 130	<0.1	ug/L	NC	30		
4230614	2,4-Dimethylphenol	2015/10/17	59	30 - 130	60	30 - 130	<0.5	ug/L	NC	30		

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4230614	2,4-Dinitrophenol	2015/10/17	13 (1)	30 - 130	0.45 (1)	30 - 130	<2	ug/L	NC	30		
4230614	2,4-Dinitrotoluene	2015/10/17	96	50 - 130	93	50 - 130	<0.3	ug/L	NC	30		
4230614	2,6-Dinitrotoluene	2015/10/17	91	50 - 130	88	50 - 130	<0.3	ug/L	NC	30		
4230614	2-Chlorophenol	2015/10/17	62	50 - 130	65	50 - 130	<0.1	ug/L	NC	30		
4230614	2-Methylnaphthalene	2015/10/17	67	50 - 130	65	50 - 130	<0.2	ug/L	NC	30		
4230614	3,3'-Dichlorobenzidine	2015/10/17	101	30 - 130	102	30 - 130	<0.5	ug/L	NC	30		
4230614	Acenaphthene	2015/10/17	86	50 - 130	83	50 - 130	<0.2	ug/L	NC	30		
4230614	Acenaphthylene	2015/10/17	82	50 - 130	79	50 - 130	<0.2	ug/L	NC	30		
4230614	Anthracene	2015/10/17	95	50 - 130	94	50 - 130	<0.05	ug/L	NC	30		
4230614	Benzo(a)anthracene	2015/10/17	108	50 - 130	107	50 - 130	<0.05	ug/L	NC	30		
4230614	Benzo(a)pyrene	2015/10/17	101	50 - 130	100	50 - 130	<0.01	ug/L	NC	30		
4230614	Benzo(b/j)fluoranthene	2015/10/17	114	50 - 130	112	50 - 130	<0.05	ug/L	NC	30		
4230614	Benzo(g,h,i)perylene	2015/10/17	103	50 - 130	101	50 - 130	<0.05	ug/L	NC	30		
4230614	Benzo(k)fluoranthene	2015/10/17	109	50 - 130	110	50 - 130	<0.05	ug/L	NC	30		
4230614	Biphenyl	2015/10/17	77	50 - 130	75	50 - 130	<0.1	ug/L	NC	30		
4230614	Bis(2-chloroethyl)ether	2015/10/17	66	50 - 130	67	50 - 130	<0.5	ug/L	NC	30		
4230614	Bis(2-chloroisopropyl)ether	2015/10/17	57	50 - 130	57	50 - 130	<0.5	ug/L	NC	30		
4230614	Bis(2-ethylhexyl)phthalate	2015/10/17	98	50 - 130	97	50 - 130	<1	ug/L	NC	30		
4230614	Chrysene	2015/10/17	106	50 - 130	105	50 - 130	<0.05	ug/L	NC	30		
4230614	Dibenz(a,h)anthracene	2015/10/17	98	50 - 130	97	50 - 130	<0.1	ug/L	NC	30		
4230614	Diethyl phthalate	2015/10/17	88	50 - 130	86	50 - 130	<0.1	ug/L	NC	30		
4230614	Dimethyl phthalate	2015/10/17	93	50 - 130	92	50 - 130	<0.1	ug/L	NC	30		
4230614	Fluoranthene	2015/10/17	106	50 - 130	105	50 - 130	<0.2	ug/L	NC	30		
4230614	Fluorene	2015/10/17	95	50 - 130	92	50 - 130	<0.2	ug/L	NC	30		
4230614	Indeno(1,2,3-cd)pyrene	2015/10/17	99	50 - 130	98	50 - 130	<0.1	ug/L	NC	30		
4230614	Naphthalene	2015/10/17	65	50 - 130	64	50 - 130	<0.2	ug/L	NC	30		
4230614	p-Chloroaniline	2015/10/17	88	30 - 130	74	30 - 130	<1	ug/L	NC	30		
4230614	Pentachlorophenol	2015/10/17	35 (1)	50 - 130	8.6 (1)	50 - 130	<0.1	ug/L	NC	30		
4230614	Phenanthrene	2015/10/17	97	50 - 130	96	50 - 130	<0.1	ug/L	NC	30		
4230614	Phenol	2015/10/17	32	30 - 130	30	30 - 130	<0.5	ug/L	NC	30		

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Maxxam Job #: B5K5143
Report Date: 2015/10/19

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4230614	Pyrene	2015/10/17	116	50 - 130	113	50 - 130	<0.05	ug/L	NC	30		
4230782	Total Organic Carbon (TOC)	2015/10/15	NC	80 - 120	104	80 - 120	<0.20	mg/L	1.8	20		
4232928	F2 (C10-C16 Hydrocarbons)	2015/10/16	103	50 - 130	101	60 - 130	<100	ug/L	NC	30		
4232928	F3 (C16-C34 Hydrocarbons)	2015/10/16	99	50 - 130	99	60 - 130	<200	ug/L	NC	30		
4232928	F4 (C34-C50 Hydrocarbons)	2015/10/16	95	50 - 130	93	60 - 130	<200	ug/L	NC	30		
4234876	Dissolved Aluminum (Al)	2015/10/19	107	80 - 120	109	80 - 120	<0.0050	mg/L	NC	20		
4234876	Dissolved Antimony (Sb)	2015/10/19	99	80 - 120	98	80 - 120	<0.00050	mg/L	NC	20		
4234876	Dissolved Arsenic (As)	2015/10/19	100	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
4234876	Dissolved Barium (Ba)	2015/10/19	98	80 - 120	98	80 - 120	<0.0020	mg/L	2.7	20		
4234876	Dissolved Beryllium (Be)	2015/10/19	101	80 - 120	104	80 - 120	<0.00050	mg/L	NC	20		
4234876	Dissolved Boron (B)	2015/10/19	103	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
4234876	Dissolved Cadmium (Cd)	2015/10/19	100	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
4234876	Dissolved Calcium (Ca)	2015/10/19	NC	80 - 120	103	80 - 120	<0.20	mg/L	0.38	20		
4234876	Dissolved Chromium (Cr)	2015/10/19	99	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
4234876	Dissolved Cobalt (Co)	2015/10/19	99	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4234876	Dissolved Copper (Cu)	2015/10/19	94	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
4234876	Dissolved Iron (Fe)	2015/10/19	102	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
4234876	Dissolved Lead (Pb)	2015/10/19	102	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
4234876	Dissolved Magnesium (Mg)	2015/10/19	NC	80 - 120	110	80 - 120	<0.050	mg/L	0.65	20		
4234876	Dissolved Manganese (Mn)	2015/10/19	101	80 - 120	103	80 - 120	<0.0020	mg/L	0.96	20		
4234876	Dissolved Molybdenum (Mo)	2015/10/19	103	80 - 120	104	80 - 120	<0.00050	mg/L	5.9	20		
4234876	Dissolved Nickel (Ni)	2015/10/19	98	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
4234876	Dissolved Phosphorus (P)	2015/10/19	115	80 - 120	109	80 - 120	<0.10	mg/L	NC	20		
4234876	Dissolved Potassium (K)	2015/10/19	98	80 - 120	101	80 - 120	<0.20	mg/L	2.5	20		
4234876	Dissolved Selenium (Se)	2015/10/19	99	80 - 120	99	80 - 120	<0.0020	mg/L	NC	20		
4234876	Dissolved Silicon (Si)	2015/10/19	102	80 - 120	104	80 - 120	<0.050	mg/L	0.30	20		
4234876	Dissolved Silver (Ag)	2015/10/19	99	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
4234876	Dissolved Sodium (Na)	2015/10/19	103	80 - 120	107	80 - 120	<0.10	mg/L	3.1	20		
4234876	Dissolved Strontium (Sr)	2015/10/19	NC	80 - 120	101	80 - 120	<0.0010	mg/L	2.2	20		
4234876	Dissolved Thallium (Tl)	2015/10/19	100	80 - 120	100	80 - 120	<0.000050	mg/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4234876	Dissolved Titanium (Ti)	2015/10/19	97	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
4234876	Dissolved Uranium (U)	2015/10/19	106	80 - 120	105	80 - 120	<0.00010	mg/L	0.036	20		
4234876	Dissolved Vanadium (V)	2015/10/19	101	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4234876	Dissolved Zinc (Zn)	2015/10/19	97	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20		
4234876	Dissolved Zirconium (Zr)	2015/10/19	104	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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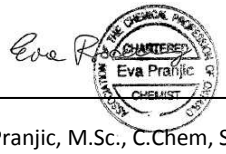
Maxxam Job #: B5K5143
Report Date: 2015/10/19

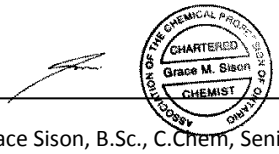
Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 1609
Sampler Initials: RD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist



Grace Sison, B.Sc., C.Chem, Senior Project Manager - Petroleum Division

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

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COOLER OBSERVATIONS:

MAXXAM JOB#: B5K5143 GKL

Cooler	Custody Seal Present (YES/NO)	Custody Seal Intact (YES/NO)	Ice Present (YES/NO)	Cooler ID	Temp 1	Temp 2	Temp 3
1	YES ✓	YES ✓	YES ✓		3	4	5
2	YES ✓	YES ✓	YES ✓		6	6	7
3	YES ✓	YES ✓	YES ✓		6	6	6
4	YES ✓	YES ✓	YES ✓		2	3	4
5	YES ✓	YES ✓	YES ✓		7	6	6
6	YES ✓	YES ✓	YES ✓		7	8	7
7	YES ✓	YES ✓	YES ✓		4	5	6
8	YES ✓	YES ✓	YES ✓		3	5	6
9	YES ✓	YES ✓	YES ✓		8	8	7
10	YES ✓	YES ✓	YES ✓		3	5	6
11	YES ✓	YES ✓	YES ✓		5	6	6
12	YES ✓	YES ✓	YES ✓		4	5	5
13	YES ✓	YES ✓	YES ✓		6	6	6
14							
15							
16							
17							
18							
19							
20							

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
BRENDA WOODWARD	Brenda Woodward	2015/10/08	08:00

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ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

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COOLER OBSERVATIONS:

MAXXAM JOB#: B5K5143 GK2

COOLER ID	CUSTODY SEAL PRESENT (YES/NO)	INTACT (YES/NO)	ICE PRESENT (YES/NO)	TEMP 1	TEMP 2	TEMP 3
1	YES ✓	YES ✓	YES ✓	4	3	3
2	YES ✓	YES ✓	YES ✓	7	8	6
3	YES ✓	YES ✓	YES ✓	3	2	2
4	YES ✓	YES ✓	YES ✓	2	2	1
5	YES ✓	YES ✓	YES ✓	2	2	3
6	YES ✓	YES ✓	YES ✓	2	2	2
7	YES ✓	YES ✓	YES ✓	3	4	4
8	YES ✓	YES ✓	YES ✓	2	2	5
9	YES ✓	YES ✓	YES ✓	5	7	7
10	YES ✓	YES ✓	YES ✓	1	1	2
11	YES ✓	YES ✓	YES ✓	4	4	5
12	YES ✓	YES ✓	YES ✓	2	2	3
13	YES ✓	YES ✓	YES ✓	2	1	1

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[signature]	RACHEL DEVLIN	2015/10/08	13:10

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STANTEC CHAIN OF CUSTODY RECORD

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INVOICE INFORMATION:		REPORT INFORMATION(if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#9197 Stantec Consulting Ltd	Company Name:	#18379 Stantec Consulting Ltd	Quotation #:	B48218	Maxxam Job #:	Bottle Order #:
Contact Name:	Accounts Payable	Contact Name:	Report - 1609-00764	Task #:			532448
Address:	49 Frederick St	Address:		Project #:	160900764	COC #:	Project Manager:
	Kitchener ON N2H 6M7		ON	Profit Centre:			
Phone:	(519) 579-4410 Fax: (519) 579-6733	Phone:	EDD@stantec.com	Site #:	CLARINGTON TS-MONITORING W	C#532448-03-01	Deepthi Shaji
Email:	Stantec.Accounts.Payable.Invoices@Stantec.com	Email:	aaron.warkentin@stantec.com, brant.gill@stantec.com,	Sampled By:	RD + DM		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
[X] Table 1 [ ] Res/Park [ ] Medium/Fine	[ ] CCME [ ] Sanitary Sewer Bylaw	
[ ] Table 2 [ ] Ind/Comm [ ] Coarse	[ ] Reg 558 [ ] Storm Sewer Bylaw	
[ ] Table 3 [ ] Agri/Other [ ] For RSC	[ ] MISA Municipality	
[ ] Table ___	[ ] PWQO	
	[ ] Other	

Include Criteria on Certificate of Analysis (Y/N)? ____

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ [ ]
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Acidity, CrVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	Reg 153 PHC - F1 - F4	Reg 153 PCBs	Reg 153 VOCs	RCAp - Comprehensive (field filtered metals)	SVOC	Lab Filtered SVOCs	# of Bottles	Comments
1		WG-160900764-20151007-RD10	Oct 7/15	810	GW	Y	X	X	X	X	X	X	X		20	
2		WG-160900764-20151007-RD10A		810										X	2	
3		WG-160900764-20151007-RD11		904		Y	X	X	X	X	X	X	X		20	
4		WG-160900764-20151007-RD11A		904										X	2	
5		WG-160900764-20151007-RD12		1238		Y	X	X	X	X	X	X	X		20	
6		WG-160900764-20151007-RD12A		1238										X	2	
7		WG-160900764-20151007-RD13		~~10:40~~ TBSY		Y	X	X	X	X	X	X	X		20	
8		WG-160900764-20151007-RD13A		~~10:40~~ TBSY										X	2	
9		WG-160900764-20151007-RD14		~~10:40~~ TBSY		Y	X	X	X	X	X	X	X		20	
10		WG-160900764-20151007-RD14A		~~10:40~~ TBSY										X	2	

08-Oct-15 08:00
Deepthi Shaji
B5K5143
GK1 ENV-1079
RECD IN PORT HOPE

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
	15/10/07	1700	~~RENDA WOODWARD~~ Renda Woodward	2015/10/08	08:00	
			RACHEL DENTON	2015/10/08	13:10	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
	See Attachment	Present	✓	
		Intact	✓	

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxam Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

REFER TO ACTR: #308466

Maxxam Analytics International Corporation o/a Maxxam Analytics
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel (905) 817-5700 Toll-Free (800) 563-6266 Fax (905) 817-5777 www.maxxam.ca

STANTEC CHAIN OF CUSTODY RECORD

Page 2 of 2

INVOICE INFORMATION:

Company Name: #9197 Stantec Consulting Ltd
Contact Name: Accounts Payable
Address: 49 Frederick St, Kitchener ON N2H 6M7
Phone: (519) 579-4410 Fax: (519) 579-6733
Email: Stantec.Accounts.Payable.Invoices@Stantec.com

REPORT INFORMATION(if differs from invoice):

Company Name: #18379 Stantec Consulting Ltd
Contact Name: Report - 1609-00764
Address: ON
Phone: EDD testen@stantec.com Fax:
Email: aaron.warkentin@stantec.com, brant.gill@stantec.com,

PROJECT INFORMATION:

Quotation #: B48218
Task #:
Project #: 160900764
Profit Centre:
Site #: CLARINGTON TS-MONITORING W
Sampled By: RD + DM

Laboratory Use Only:

Maxxam Job #:
Bottle Order #: 532448
COC #: C#532448-04-01
Project Manager: Deepthi Shaji

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): [X] Table 1 [ ] Table 2 [ ] Table 3 [ ] Table ___ ; [ ] Res/Park [ ] Ind/Comm [ ] Agr/Other [ ] Medium/Fine [ ] Coarse [ ] For RSC
Other Regulations: [ ] CCME [ ] Reg 558 [ ] MISA [ ] PWQO [ ] Other ___ ; [ ] Sanitary Sewer Bylaw [ ] Storm Sewer Bylaw Municipality ___
Special Instructions:
Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects
Regular (Standard) TAT: [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ [ ]
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / CrVI	Acidity, CrVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	Reg 153 PHC - F1-F4	Reg 153 PCBs	Reg 153 VOCs	RCAp - Comprehensive (field filtered metals)	SVOC	Lab Filtered SVOCs	BTEX-F1		# of Bottles	Comments
1		WG-160900764-201510 07-RD15	Oct 7/15	1405	GW	Y	X	X	X	X	X	X	X				20	
2		WG-160900764-201510 07-RD15A		1405										X			2	
3		WG-160900764-201510 07-RD16		1537		Y	X	X	X	X	X	X	X	X			20	
4		WG-160900764-201510 07-RD16A		1537										X			2	
5		~~WG-160900764-201510~~ Field Blank-1	Oct 7/15	1254	—						X		X		X		7	
6		~~WG-160900764-201510~~ ~~Field Blank~~	~~Oct 7/15~~	(M)							~~X~~		~~X~~		~~X~~		~~3~~ (M)	
7		~~WG-160900764-201510~~ FIELD BLANK-15-3020	—	—	—						X		X		X		11	MICRO
8		WG-160900764-201510																
9		WG-160900764-201510																REC'D IN PORT HOPE
10		WG-160900764-201510																

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
	15/10/07	1700	BRENDA WOODWARD	2015/10/08	08:00	
			RACHEL DENIN	2015/10/08	13:10	

Laboratory Use Only: Time Sensitive; Temperature (°C) on Receipt: See Attachment; Custody Seal: Present [✓] Intact [✓]; Yes; No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxam Yellow: Client

Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site#: CLARINGTON TS-PRIVATE WELLS
Site Location: CLARINGTON TS-PRIVATE WELLS
Your C.O.C. #: 532470-01-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/16
Report #: R3723319
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K5292
Received: 2015/10/08, 13:30

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	2	N/A	2015/10/16	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	2	2015/10/14	2015/10/15	CAM SOP-00301	EPA 8270 m
Acidity as CaC03 in liquid (1, 2)	2	2015/10/09	2015/10/14	SLA SOP-00100	APHA SM2310B (Mod)
Alkalinity	2	N/A	2015/10/10	CAM SOP-00448	SM 22 2320 B m
Carbonate, Bicarbonate and Hydroxide	2	N/A	2015/10/13	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	2	N/A	2015/10/13		EPA 8260C m
Chloride by Automated Colourimetry	2	N/A	2015/10/10	CAM SOP-00463	EPA 325.2 m
Conductivity	2	N/A	2015/10/10	CAM SOP-00414	SM 22 2510 m
Chromium (VI) in Water	2	N/A	2015/10/13	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	2	N/A	2015/10/13	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (3)	2	N/A	2015/10/09	CAM SOP-00446	SM 22 5310 B m
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2015/10/13	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (4)	2	2015/10/14	2015/10/15	CAM SOP-00316	CCME PHC-CWS m
Fluoride	2	2015/10/09	2015/10/10	CAM SOP-00449	SM 22 4500-F C m
Hardness (calculated as CaCO3)	2	N/A	2015/10/15	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	2	2015/10/11	2015/10/13	CAM SOP-00453	EPA 7470A m
Metals Analysis by ICPMS (as received) (5)	2	2015/10/15	2015/10/15	CAM SOP-00447	EPA 6020A m
Ion Balance (% Difference)	2	N/A	2015/10/15		
Anion and Cation Sum	2	N/A	2015/10/15		
Total Coliforms/ E. coli, CFU/100mL	2	N/A	2015/10/08	CAM SOP-00551	MOE E3407
Total Ammonia-N	2	N/A	2015/10/14	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (6)	2	N/A	2015/10/13	CAM SOP-00440	SM 22 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	2	2015/10/09	2015/10/13	CAM SOP-00309	EPA 8082A m
pH	2	N/A	2015/10/10	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	2	N/A	2015/10/10	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	2	N/A	2015/10/15		
Sat. pH and Langelier Index (@ 4C)	2	N/A	2015/10/15		
Sulphate by Automated Colourimetry	2	N/A	2015/10/10	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	2	N/A	2015/10/15		

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Your Project #: 160900764
Site#: CLARINGTON TS-PRIVATE WELLS
Site Location: CLARINGTON TS-PRIVATE WELLS
Your C.O.C. #: 532470-01-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/16
Report #: R3723319
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K5292
Received: 2015/10/08, 13:30

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Total Dissolved Solids	2	N/A	2015/10/13	CAM SOP-00428	SM 22 2540C m
Total Organic Carbon (TOC) (7)	2	N/A	2015/10/14	CAM SOP-00446	SM 22 5310B m
Total Suspended Solids	2	N/A	2015/10/13	CAM SOP-00428	SM 22 2540D m
Turbidity	2	N/A	2015/10/09	CAM SOP-00417	SM 22 2130 B m
Volatile Organic Compounds in Water	2	N/A	2015/10/10	CAM SOP000228	EPA 8260C m

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

Maxxam Analytics is accredited for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Sladeview Petrochemical
(2) Sample(s) analyzed using methodologies that have not been subjected to Maxxam's standard validation process for the submitted matrix and is not an Accredited method. Analysis performed with client consent, however results should be viewed with discretion
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
(5) Metals analysis was performed on the sample 'as received'.
(6) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(7) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Your Project #: 160900764
Site#: CLARINGTON TS-PRIVATE WELLS
Site Location: CLARINGTON TS-PRIVATE WELLS
Your C.O.C. #: 532470-01-01

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/10/16
Report #: R3723319
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5K5292
Received: 2015/10/08, 13:30

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Augustyna Dobosz, Project Manager
Email: ADobosz@maxxam.ca
Phone# (905)817-5700 Ext:5798

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BDB100	BDB100		BDB101	BDB101		
Sampling Date		2015/10/08 09:39	2015/10/08 09:39		2015/10/08 10:37	2015/10/08 10:37		
COC Number		532470-01-01	532470-01-01		532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151008-JK23	WG-160900764-20151008-JK23 Lab-Dup	QC Batch	WG-160900764-20151008-JK24	WG-160900764-20151008-JK24 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	9.60		4223115	9.16		N/A	4223115
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	330		4222236	300		1.0	4222236
Calculated TDS	mg/L	540		4222241	500		1.0	4222241
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.1		4222236	1.1		1.0	4222236
Cation Sum	me/L	10.5		4223115	9.59		N/A	4223115
Hardness (CaCO3)	mg/L	450		4223458	420		1.0	4223458
Ion Balance (% Difference)	%	4.56		4223503	2.27		N/A	4223503
Langelier Index (@ 20C)	N/A	0.804		4222239	0.688			4222239
Langelier Index (@ 4C)	N/A	0.557		4222240	0.440			4222240
Saturation pH (@ 20C)	N/A	6.76		4222239	6.89			4222239
Saturation pH (@ 4C)	N/A	7.00		4222240	7.14			4222240
Inorganics								
Total Ammonia-N	mg/L	<0.050		4225865	<0.050		0.050	4225865
Conductivity	umho/cm	900	910	4225520	870		1.0	4225520
Dissolved Organic Carbon	mg/L	1.3		4224268	0.72	0.70	0.20	4224282
Orthophosphate (P)	mg/L	<0.010	<0.010	4225575	<0.010		0.010	4225575
pH	pH	7.56	7.60	4225522	7.58		N/A	4225522
Dissolved Sulphate (SO4)	mg/L	23	23	4225576	38		1.0	4225576
Alkalinity (Total as CaCO3)	mg/L	330	330	4225512	300		1.0	4225512
Dissolved Chloride (Cl)	mg/L	79	80	4225573	78		1.0	4225573
Nitrite (N)	mg/L	<0.010		4224898	<0.010		0.010	4224898
Nitrate (N)	mg/L	2.77		4224898	1.08		0.10	4224898
Metals								
. Aluminum (Al)	mg/L	0.12	0.12	4230644	<0.0050		0.0050	4230644
. Antimony (Sb)	mg/L	<0.00050	<0.00050	4230644	<0.00050		0.00050	4230644
. Arsenic (As)	mg/L	<0.0010	<0.0010	4230644	<0.0010		0.0010	4230644
. Barium (Ba)	mg/L	0.064	0.065	4230644	0.065		0.0020	4230644
. Beryllium (Be)	mg/L	<0.00050	<0.00050	4230644	<0.00050		0.00050	4230644
. Boron (B)	mg/L	0.014	0.015	4230644	<0.010		0.010	4230644
. Cadmium (Cd)	mg/L	<0.00010	<0.00010	4230644	<0.00010		0.00010	4230644
. Calcium (Ca)	mg/L	160	150	4230644	120		0.20	4230644
. Chromium (Cr)	mg/L	<0.0050	<0.0050	4230644	<0.0050		0.0050	4230644

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		BDB100	BDB100		BDB101	BDB101		
Sampling Date		2015/10/08 09:39	2015/10/08 09:39		2015/10/08 10:37	2015/10/08 10:37		
COC Number		532470-01-01	532470-01-01		532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151008-JK23	WG-160900764-20151008-JK23 Lab-Dup	QC Batch	WG-160900764-20151008-JK24	WG-160900764-20151008-JK24 Lab-Dup	RDL	QC Batch
. Cobalt (Co)	mg/L	<0.00050	<0.00050	4230644	<0.00050		0.00050	4230644
. Copper (Cu)	mg/L	0.0010	<0.0010	4230644	0.0050		0.0010	4230644
. Iron (Fe)	mg/L	0.12	0.14	4230644	<0.10		0.10	4230644
. Lead (Pb)	mg/L	<0.00050	<0.00050	4230644	<0.00050		0.00050	4230644
. Magnesium (Mg)	mg/L	15	15	4230644	28		0.050	4230644
. Manganese (Mn)	mg/L	0.027	0.027	4230644	0.0028		0.0020	4230644
. Molybdenum (Mo)	mg/L	<0.00050	<0.00050	4230644	0.00059		0.00050	4230644
. Nickel (Ni)	mg/L	<0.0010	<0.0010	4230644	<0.0010		0.0010	4230644
. Phosphorus (P)	mg/L	<0.10	<0.10	4230644	<0.10		0.10	4230644
. Potassium (K)	mg/L	1.5	1.5	4230644	2.0		0.20	4230644
. Selenium (Se)	mg/L	<0.0020	<0.0020	4230644	<0.0020		0.0020	4230644
. Silicon (Si)	mg/L	6.8	6.7	4230644	6.8		0.050	4230644
. Silver (Ag)	mg/L	<0.00010	<0.00010	4230644	<0.00010		0.00010	4230644
. Sodium (Na)	mg/L	34	33	4230644	25		0.10	4230644
. Strontium (Sr)	mg/L	0.30	0.29	4230644	0.30		0.0010	4230644
. Thallium (Tl)	mg/L	<0.000050	<0.000050	4230644	<0.000050		0.000050	4230644
. Titanium (Ti)	mg/L	0.0075	0.0065	4230644	<0.0050		0.0050	4230644
. Uranium (U)	mg/L	0.0012	0.0012	4230644	0.014		0.00010	4230644
. Vanadium (V)	mg/L	<0.00050	<0.00050	4230644	<0.00050		0.00050	4230644
. Zinc (Zn)	mg/L	<0.0050	<0.0050	4230644	0.017		0.0050	4230644
. Zirconium (Zr)	mg/L	<0.0010	<0.0010	4230644	<0.0010		0.0010	4230644

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

RESULTS OF ANALYSES OF WATER

Maxxam ID		BDB100	BDB100	BDB101	BDB101		
Sampling Date		2015/10/08 09:39	2015/10/08 09:39	2015/10/08 10:37	2015/10/08 10:37		
COC Number		532470-01-01	532470-01-01	532470-01-01	532470-01-01		
	UNITS	WG-160900764 -20151008-JK23	WG-160900764 -20151008-JK23 Lab-Dup	WG-160900764 -20151008-JK24	WG-160900764 -20151008-JK24 Lab-Dup	RDL	QC Batch
Inorganics							
Acidity as CaC03	mg/L	51		45	44	10	4224548
Total Dissolved Solids	mg/L	526		492		10	4224069
Fluoride (F-)	mg/L	<0.10	<0.10	<0.10		0.10	4225521
Free Cyanide	ug/L	<2		<2		2	4221074
Total Organic Carbon (TOC)	mg/L	1.5		0.74		0.20	4227103
Total Suspended Solids	mg/L	<10		<10		10	4226724
Turbidity	NTU	2.5		0.7		0.2	4225335

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		BDB100	BDB101		
Sampling Date		2015/10/08 09:39	2015/10/08 10:37		
COC Number		532470-01-01	532470-01-01		
	UNITS	**WG-160900764 -20151008-JK23**	**WG-160900764 -20151008-JK24**	**RDL**	**QC Batch**
Metals					
Chromium (VI)	mg/L	<0.00050	<0.00050	0.00050	4224696
Mercury (Hg)	mg/L	<0.00010	<0.00010	0.00010	4226068

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

MICROBIOLOGY (WATER)

Maxxam ID		BDB100	BDB101	
Sampling Date		2015/10/08 09:39	2015/10/08 10:37	
COC Number		532470-01-01	532470-01-01	
	UNITS	**WG-160900764 -20151008-JK23**	**WG-160900764 -20151008-JK24**	**QC Batch**
Microbiological				
Background	CFU/100mL	NDOGT (1)	0	4223653
Total Coliforms	CFU/100mL	NDOGT (1)	0	4223653
Escherichia coli	CFU/100mL	NDOGT (1)	0	4223653

QC Batch = Quality Control Batch
(1) NDOGT: No data due to Over Growth for Target Organisms, Total Coliforms and / or E.coli.

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
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Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 PCBS (WATER)

Maxxam ID		BDB100	BDB101		
Sampling Date		2015/10/08 09:39	2015/10/08 10:37		
COC Number		532470-01-01	532470-01-01		
	UNITS	**WG-160900764 -20151008-JK23**	**WG-160900764 -20151008-JK24**	**RDL**	**QC Batch**
PCBs					
Aroclor 1242	ug/L	<0.05	<0.05	0.05	4224514
Aroclor 1248	ug/L	<0.05	<0.05	0.05	4224514
Aroclor 1254	ug/L	<0.05	<0.05	0.05	4224514
Aroclor 1260	ug/L	<0.05	<0.05	0.05	4224514
Total PCB	ug/L	<0.05	<0.05	0.05	4224514
Surrogate Recovery (%)					
Decachlorobiphenyl	%	79	88		4224514

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		BDB100	BDB101		
Sampling Date		2015/10/08 09:39	2015/10/08 10:37		
COC Number		532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151008-JK23	WG-160900764-20151008-JK24	RDL	QC Batch
BTEX & F1 Hydrocarbons					
F1 (C6-C10)	ug/L	<25	<25	25	4226972
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	4226972
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	4228621
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	4228621
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	4228621
Reached Baseline at C50	ug/L	Yes	Yes		4228621
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	104	102		4226972
4-Bromofluorobenzene	%	97	96		4226972
D10-Ethylbenzene	%	109	105		4226972
D4-1,2-Dichloroethane	%	105	102		4226972
o-Terphenyl	%	104	103		4228621

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BDB100	BDB101		
Sampling Date		2015/10/08 09:39	2015/10/08 10:37		
COC Number		532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151008-JK23	WG-160900764-20151008-JK24	RDL	QC Batch
Semivolatile Organics					
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	0.1	4228083
1-Methylnaphthalene	ug/L	<0.2	<0.2	0.2	4228083
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	0.2	4228083
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	0.2	4228083
2,4-Dichlorophenol	ug/L	<0.1	<0.1	0.1	4228083
2,4-Dimethylphenol	ug/L	<0.5	<0.5	0.5	4228083
2,4-Dinitrophenol	ug/L	<2	<2	2	4228083
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	0.3	4228083
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	0.3	4228083
2-Chlorophenol	ug/L	<0.1	<0.1	0.1	4228083
2-Methylnaphthalene	ug/L	<0.2	<0.2	0.2	4228083
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	0.5	4228083
Acenaphthene	ug/L	<0.2	<0.2	0.2	4228083
Acenaphthylene	ug/L	<0.2	<0.2	0.2	4228083
Anthracene	ug/L	<0.05	<0.05	0.05	4228083
Benzo(a)anthracene	ug/L	<0.05	<0.05	0.05	4228083
Benzo(a)pyrene	ug/L	<0.01	<0.01	0.01	4228083
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	0.05	4228083
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	0.05	4228083
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	0.05	4228083
Biphenyl	ug/L	<0.1	<0.1	0.1	4228083
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	0.5	4228083
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	0.5	4228083
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	1	4228083
Chrysene	ug/L	<0.05	<0.05	0.05	4228083
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	0.1	4228083
Diethyl phthalate	ug/L	<0.1	<0.1	0.1	4228083
Dimethyl phthalate	ug/L	<0.1	<0.1	0.1	4228083
Fluoranthene	ug/L	<0.2	<0.2	0.2	4228083
Fluorene	ug/L	<0.2	<0.2	0.2	4228083
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	0.1	4228083
Naphthalene	ug/L	<0.2	<0.2	0.2	4228083

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BDB100	BDB101		
Sampling Date		2015/10/08 09:39	2015/10/08 10:37		
COC Number		532470-01-01	532470-01-01		
	UNITS	**WG-160900764 -20151008-JK23**	**WG-160900764 -20151008-JK24**	**RDL**	**QC Batch**
p-Chloroaniline	ug/L	<1	<1	1	4228083
Pentachlorophenol	ug/L	<0.1	<0.1	0.1	4228083
Phenanthrene	ug/L	<0.1	<0.1	0.1	4228083
Phenol	ug/L	<0.5	<0.5	0.5	4228083
Pyrene	ug/L	<0.05	<0.05	0.05	4228083
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	0.28	4222147
Surrogate Recovery (%)					
2,4,6-Tribromophenol	%	88	81		4228083
2-Fluorobiphenyl	%	60	55		4228083
D14-Terphenyl (FS)	%	96	95		4228083
D5-Nitrobenzene	%	65	62		4228083

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Stantec Consulting Ltd
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Sampler Initials: JK

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BDB100	BDB101		
Sampling Date		2015/10/08 09:39	2015/10/08 10:37		
COC Number		532470-01-01	532470-01-01		
	UNITS	WG-160900764-20151008-JK23	WG-160900764-20151008-JK24	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	4223587
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	4224175
Benzene	ug/L	<0.20	<0.20	0.20	4224175
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	4224175
Bromoform	ug/L	<1.0	<1.0	1.0	4224175
Bromomethane	ug/L	<0.50	<0.50	0.50	4224175
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	4224175
Chlorobenzene	ug/L	<0.20	<0.20	0.20	4224175
Chloroform	ug/L	<0.20	<0.20	0.20	4224175
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	4224175
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	4224175
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	4224175
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	4224175
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	4224175
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	4224175
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	4224175
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	4224175
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	4224175
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	4224175
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	4224175
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	4224175
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	4224175
Ethylbenzene	ug/L	<0.20	<0.20	0.20	4224175
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	4224175
Hexane	ug/L	<1.0	<1.0	1.0	4224175
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	4224175
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	4224175
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	4224175
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	4224175
Styrene	ug/L	<0.50	<0.50	0.50	4224175
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	4224175

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		BDB100	BDB101		
Sampling Date		2015/10/08 09:39	2015/10/08 10:37		
COC Number		532470-01-01	532470-01-01		
	UNITS	**WG-160900764 -20151008-JK23**	**WG-160900764 -20151008-JK24**	**RDL**	**QC Batch**
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	4224175
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	4224175
Toluene	ug/L	<0.20	<0.20	0.20	4224175
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	4224175
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	4224175
Trichloroethylene	ug/L	<0.20	<0.20	0.20	4224175
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	4224175
p+m-Xylene	ug/L	<0.20	<0.20	0.20	4224175
o-Xylene	ug/L	<0.20	<0.20	0.20	4224175
Total Xylenes	ug/L	<0.20	<0.20	0.20	4224175
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	4224175
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	101	101		4224175
D4-1,2-Dichloroethane	%	99	97		4224175
D8-Toluene	%	104	103		4224175

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BDB100
Sample ID: WG-160900764-20151008-JK23
Matrix: Water

Collected: 2015/10/08
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4224548	2015/10/09	2015/10/14	Mary Jo Paz
Alkalinity	AT	4225512	N/A	2015/10/10	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/13	Automated Statchk
1,3-Dichloropropene Sum	CALC	4223587	N/A	2015/10/13	Automated Statchk
Chloride by Automated Colourimetry	KONE	4225573	N/A	2015/10/10	Deonarine Ramnarine
Conductivity	AT	4225520	N/A	2015/10/10	Surinder Rai
Chromium (VI) in Water	IC	4224696	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224268	N/A	2015/10/09	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4226972	N/A	2015/10/13	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4228621	2015/10/14	2015/10/15	Jeevaraj Jeevaratrnam
Fluoride	ISE	4225521	2015/10/09	2015/10/10	Surinder Rai
Hardness (calculated as CaCO3)		4223458	N/A	2015/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	4226068	2015/10/11	2015/10/13	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	4230644	2015/10/15	2015/10/15	Kevin Comerford
Ion Balance (% Difference)	CALC	4223503	N/A	2015/10/15	Automated Statchk
Anion and Cation Sum	CALC	4223115	N/A	2015/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	4223653	N/A	2015/10/08	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4224898	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225522	N/A	2015/10/10	Surinder Rai
Orthophosphate	KONE	4225575	N/A	2015/10/10	Deonarine Ramnarine
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4225576	N/A	2015/10/10	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/15	Automated Statchk
Total Dissolved Solids	BAL	4224069	N/A	2015/10/13	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/14	Anastasia Hamanov
Total Suspended Solids	BAL	4226724	N/A	2015/10/13	Bansari Ray
Turbidity	AT	4225335	N/A	2015/10/09	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4224175	N/A	2015/10/10	Manpreet Sarao

Maxxam ID: BDB100 Dup
Sample ID: WG-160900764-20151008-JK23
Matrix: Water

Collected: 2015/10/08
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	4225512	N/A	2015/10/10	Surinder Rai
Chloride by Automated Colourimetry	KONE	4225573	N/A	2015/10/10	Deonarine Ramnarine
Conductivity	AT	4225520	N/A	2015/10/10	Surinder Rai
Fluoride	ISE	4225521	2015/10/09	2015/10/10	Surinder Rai

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BDB100 Dup
Sample ID: WG-160900764-20151008-JK23
Matrix: Water

Collected: 2015/10/08
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Analysis by ICPMS (as received)	ICP/MS	4230644	2015/10/15	2015/10/15	Kevin Comerford
pH	AT	4225522	N/A	2015/10/10	Surinder Rai
Orthophosphate	KONE	4225575	N/A	2015/10/10	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	4225576	N/A	2015/10/10	Deonarine Ramnarine

Maxxam ID: BDB101
Sample ID: WG-160900764-20151008-JK24
Matrix: Water

Collected: 2015/10/08
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4222147	N/A	2015/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4228083	2015/10/14	2015/10/15	Milijana Avramovic
Acidity as CaC03 in liquid		4224548	2015/10/09	2015/10/14	Mary Jo Paz
Alkalinity	AT	4225512	N/A	2015/10/10	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	4222236	N/A	2015/10/13	Automated Statchk
1,3-Dichloropropene Sum	CALC	4223587	N/A	2015/10/13	Automated Statchk
Chloride by Automated Colourimetry	KONE	4225573	N/A	2015/10/10	Deonarine Ramnarine
Conductivity	AT	4225520	N/A	2015/10/10	Surinder Rai
Chromium (VI) in Water	IC	4224696	N/A	2015/10/13	Lang Le
Free (WAD) Cyanide	TECH/CN	4221074	N/A	2015/10/13	Christine Pham
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224282	N/A	2015/10/09	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4226972	N/A	2015/10/13	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4228621	2015/10/14	2015/10/15	Jeevaraj Jeevaratrnam
Fluoride	ISE	4225521	2015/10/09	2015/10/10	Surinder Rai
Hardness (calculated as CaCO3)		4223458	N/A	2015/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	4226068	2015/10/11	2015/10/13	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	4230644	2015/10/15	2015/10/15	Kevin Comerford
Ion Balance (% Difference)	CALC	4223503	N/A	2015/10/15	Automated Statchk
Anion and Cation Sum	CALC	4223115	N/A	2015/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	4223653	N/A	2015/10/08	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	4225865	N/A	2015/10/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4224898	N/A	2015/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	4224514	2015/10/09	2015/10/13	Li Peng
pH	AT	4225522	N/A	2015/10/10	Surinder Rai
Orthophosphate	KONE	4225575	N/A	2015/10/10	Deonarine Ramnarine
Sat. pH and Langelier Index (@ 20C)	CALC	4222239	N/A	2015/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4222240	N/A	2015/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	4225576	N/A	2015/10/10	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	4222241	N/A	2015/10/15	Automated Statchk
Total Dissolved Solids	BAL	4224069	N/A	2015/10/13	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	4227103	N/A	2015/10/14	Anastasia Hamanov
Total Suspended Solids	BAL	4226724	N/A	2015/10/13	Bansari Ray
Turbidity	AT	4225335	N/A	2015/10/09	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	4224175	N/A	2015/10/10	Manpreet Sarao

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BDB101 Dup
Sample ID: WG-160900764-20151008-JK24
Matrix: Water

Collected: 2015/10/08
Shipped:
Received: 2015/10/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity as CaC03 in liquid		4224548	2015/10/09	2015/10/14	Mary Jo Paz
Dissolved Organic Carbon (DOC)	TOCV/NDIR	4224282	N/A	2015/10/09	Anastasia Hamanov

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	9.3°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4224175	4-Bromofluorobenzene	2015/10/10	101	70 - 130	101	70 - 130	102	%				
4224175	D4-1,2-Dichloroethane	2015/10/10	97	70 - 130	98	70 - 130	98	%				
4224175	D8-Toluene	2015/10/10	104	70 - 130	103	70 - 130	102	%				
4224514	Decachlorobiphenyl	2015/10/13	85	60 - 130	78	60 - 130	93	%				
4226972	1,4-Difluorobenzene	2015/10/13	110	70 - 130	102	70 - 130	102	%				
4226972	4-Bromofluorobenzene	2015/10/13	105	70 - 130	103	70 - 130	100	%				
4226972	D10-Ethylbenzene	2015/10/13	108	70 - 130	96	70 - 130	107	%				
4226972	D4-1,2-Dichloroethane	2015/10/13	109	70 - 130	104	70 - 130	105	%				
4228083	2,4,6-Tribromophenol	2015/10/15	95	50 - 130	98	50 - 130	82	%				
4228083	2-Fluorobiphenyl	2015/10/15	62	50 - 130	61	50 - 130	73	%				
4228083	D14-Terphenyl (FS)	2015/10/15	94	50 - 130	95	50 - 130	92	%				
4228083	D5-Nitrobenzene	2015/10/15	76	50 - 130	73	50 - 130	79	%				
4228621	o-Terphenyl	2015/10/14	105	60 - 130	104	60 - 130	102	%				
4221074	Free Cyanide	2015/10/13	106	80 - 120	105	80 - 120	<2	ug/L	NC	20		
4224069	Total Dissolved Solids	2015/10/13					<10	mg/L	6.5	25	95	90 - 110
4224175	1,1,1,2-Tetrachloroethane	2015/10/10	94	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
4224175	1,1,1-Trichloroethane	2015/10/10	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
4224175	1,1,2,2-Tetrachloroethane	2015/10/10	95	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4224175	1,1,2-Trichloroethane	2015/10/10	92	70 - 130	90	70 - 130	<0.50	ug/L	NC	30		
4224175	1,1-Dichloroethane	2015/10/10	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
4224175	1,1-Dichloroethylene	2015/10/10	104	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
4224175	1,2-Dichlorobenzene	2015/10/10	97	70 - 130	94	70 - 130	<0.50	ug/L	NC	30		
4224175	1,2-Dichloroethane	2015/10/10	93	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4224175	1,2-Dichloropropane	2015/10/10	91	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
4224175	1,3-Dichlorobenzene	2015/10/10	91	70 - 130	88	70 - 130	<0.50	ug/L	NC	30		
4224175	1,4-Dichlorobenzene	2015/10/10	98	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
4224175	Acetone (2-Propanone)	2015/10/10	94	60 - 140	91	60 - 140	<10	ug/L	NC	30		
4224175	Benzene	2015/10/10	93	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
4224175	Bromodichloromethane	2015/10/10	98	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
4224175	Bromoform	2015/10/10	91	70 - 130	89	70 - 130	<1.0	ug/L	NC	30		
4224175	Bromomethane	2015/10/10	83	60 - 140	82	60 - 140	<0.50	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4224175	Carbon Tetrachloride	2015/10/10	94	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
4224175	Chlorobenzene	2015/10/10	107	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
4224175	Chloroform	2015/10/10	94	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
4224175	cis-1,2-Dichloroethylene	2015/10/10	99	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
4224175	cis-1,3-Dichloropropene	2015/10/10	92	70 - 130	88	70 - 130	<0.30	ug/L	NC	30		
4224175	Dibromochloromethane	2015/10/10	94	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4224175	Dichlorodifluoromethane (FREON 12)	2015/10/10	99	60 - 140	98	60 - 140	<1.0	ug/L	NC	30		
4224175	Ethylbenzene	2015/10/10	102	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
4224175	Ethylene Dibromide	2015/10/10	92	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
4224175	Hexane	2015/10/10	103	70 - 130	102	70 - 130	<1.0	ug/L	NC	30		
4224175	Methyl Ethyl Ketone (2-Butanone)	2015/10/10	103	60 - 140	100	60 - 140	<10	ug/L	NC	30		
4224175	Methyl Isobutyl Ketone	2015/10/10	103	70 - 130	100	70 - 130	<5.0	ug/L	NC	30		
4224175	Methyl t-butyl ether (MTBE)	2015/10/10	94	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
4224175	Methylene Chloride(Dichloromethane)	2015/10/10	99	70 - 130	98	70 - 130	<2.0	ug/L	NC	30		
4224175	o-Xylene	2015/10/10	94	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
4224175	p+m-Xylene	2015/10/10	86	70 - 130	83	70 - 130	<0.20	ug/L	NC	30		
4224175	Styrene	2015/10/10	94	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
4224175	Tetrachloroethylene	2015/10/10	93	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
4224175	Toluene	2015/10/10	96	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
4224175	Total Xylenes	2015/10/10					<0.20	ug/L	NC	30		
4224175	trans-1,2-Dichloroethylene	2015/10/10	93	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
4224175	trans-1,3-Dichloropropene	2015/10/10	105	70 - 130	99	70 - 130	<0.40	ug/L	NC	30		
4224175	Trichloroethylene	2015/10/10	93	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
4224175	Trichlorofluoromethane (FREON 11)	2015/10/10	100	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
4224175	Vinyl Chloride	2015/10/10	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
4224268	Dissolved Organic Carbon	2015/10/09	100	80 - 120	101	80 - 120	<0.20	mg/L	1.7	20		
4224282	Dissolved Organic Carbon	2015/10/09	101	80 - 120	102	80 - 120	<0.20	mg/L	NC	20		
4224514	Aroclor 1242	2015/10/13					<0.05	ug/L	NC	30		
4224514	Aroclor 1248	2015/10/13					<0.05	ug/L	NC	30		
4224514	Aroclor 1254	2015/10/13					<0.05	ug/L	NC	30		
4224514	Aroclor 1260	2015/10/13	76	60 - 130	67	60 - 130	<0.05	ug/L	NC	30		

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Maxxam Job #: B5K5292
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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4224514	Total PCB	2015/10/13	76	60 - 130	67	60 - 130	<0.05	ug/L	NC	40		
4224548	Acidity as CaC03	2015/10/14					<10	mg/L	NC	25		
4224696	Chromium (VI)	2015/10/13	NC	80 - 120	105	80 - 120	<0.00050	mg/L	0.40	20		
4224898	Nitrate (N)	2015/10/13	NC	80 - 120	101	80 - 120	<0.10	mg/L	1.5	25		
4224898	Nitrite (N)	2015/10/13	NC	80 - 120	98	80 - 120	<0.010	mg/L	0.63	25		
4225335	Turbidity	2015/10/09			103	85 - 115	<0.2	NTU	NC	20		
4225512	Alkalinity (Total as CaCO3)	2015/10/10			96	85 - 115	<1.0	mg/L	0.88	25		
4225520	Conductivity	2015/10/10			101	85 - 115	<1.0	umho/cm	1.0	25		
4225521	Fluoride (F-)	2015/10/10	99	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
4225522	pH	2015/10/10			102	98 - 103			0.46	N/A		
4225573	Dissolved Chloride (Cl)	2015/10/10	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.96	20		
4225575	Orthophosphate (P)	2015/10/10	104	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
4225576	Dissolved Sulphate (SO4)	2015/10/10	NC	75 - 125	104	80 - 120	<1.0	mg/L	2.1	20		
4225865	Total Ammonia-N	2015/10/14	102	80 - 120	101	85 - 115	<0.050	mg/L	NC	20		
4226068	Mercury (Hg)	2015/10/13	119	75 - 125	106	80 - 120	<0.00010	mg/L	NC	20		
4226724	Total Suspended Solids	2015/10/13					<10	mg/L	NC	25	98	85 - 115
4226972	F1 (C6-C10) - BTEX	2015/10/13					<25	ug/L	NC	30		
4226972	F1 (C6-C10)	2015/10/13	72	70 - 130	93	70 - 130	<25	ug/L	NC	30		
4227103	Total Organic Carbon (TOC)	2015/10/13	98	80 - 120	99	80 - 120	<0.20	mg/L	NC	20		
4228083	1,2,4-Trichlorobenzene	2015/10/15	54	40 - 130	55	40 - 130	<0.1	ug/L	NC	30		
4228083	1-Methylnaphthalene	2015/10/15	76	50 - 130	73	50 - 130	<0.2	ug/L	NC	30		
4228083	2,4,5-Trichlorophenol	2015/10/15	93	50 - 130	92	50 - 130	<0.2	ug/L	NC	30		
4228083	2,4,6-Trichlorophenol	2015/10/15	87	50 - 130	86	50 - 130	<0.2	ug/L	NC	30		
4228083	2,4-Dichlorophenol	2015/10/15	70	50 - 130	67	50 - 130	<0.1	ug/L	NC	30		
4228083	2,4-Dimethylphenol	2015/10/15	45	30 - 130	65	30 - 130	<0.5	ug/L	NC	30		
4228083	2,4-Dinitrophenol	2015/10/15	61	30 - 130	57	30 - 130	<2	ug/L	NC	30		
4228083	2,4-Dinitrotoluene	2015/10/15	96	50 - 130	95	50 - 130	<0.3	ug/L	NC	30		
4228083	2,6-Dinitrotoluene	2015/10/15	89	50 - 130	89	50 - 130	<0.3	ug/L	NC	30		
4228083	2-Chlorophenol	2015/10/15	73	50 - 130	66	50 - 130	<0.1	ug/L	NC	30		
4228083	2-Methylnaphthalene	2015/10/15	70	50 - 130	67	50 - 130	<0.2	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
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Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4228083	3,3'-Dichlorobenzidine	2015/10/15	84	30 - 130	91	30 - 130	<0.5	ug/L	NC	30		
4228083	Acenaphthene	2015/10/15	81	50 - 130	81	50 - 130	<0.2	ug/L	NC	30		
4228083	Acenaphthylene	2015/10/15	80	50 - 130	79	50 - 130	<0.2	ug/L	NC	30		
4228083	Anthracene	2015/10/15	87	50 - 130	87	50 - 130	<0.05	ug/L	NC	30		
4228083	Benzo(a)anthracene	2015/10/15	98	50 - 130	98	50 - 130	<0.05	ug/L	NC	30		
4228083	Benzo(a)pyrene	2015/10/15	95	50 - 130	98	50 - 130	<0.01	ug/L	NC	30		
4228083	Benzo(b/j)fluoranthene	2015/10/15	99	50 - 130	97	50 - 130	<0.05	ug/L	NC	30		
4228083	Benzo(g,h,i)perylene	2015/10/15	79	50 - 130	80	50 - 130	<0.05	ug/L	NC	30		
4228083	Benzo(k)fluoranthene	2015/10/15	102	50 - 130	101	50 - 130	<0.05	ug/L	NC	30		
4228083	Biphenyl	2015/10/15	75	50 - 130	73	50 - 130	<0.1	ug/L	NC	30		
4228083	Bis(2-chloroethyl)ether	2015/10/15	71	50 - 130	66	50 - 130	<0.5	ug/L	NC	30		
4228083	Bis(2-chloroisopropyl)ether	2015/10/15	65	50 - 130	60	50 - 130	<0.5	ug/L	NC	30		
4228083	Bis(2-ethylhexyl)phthalate	2015/10/15	96	50 - 130	96	50 - 130	<1	ug/L	NC	30		
4228083	Chrysene	2015/10/15	98	50 - 130	97	50 - 130	<0.05	ug/L	NC	30		
4228083	Dibenz(a,h)anthracene	2015/10/15	86	50 - 130	86	50 - 130	<0.1	ug/L	NC	30		
4228083	Diethyl phthalate	2015/10/15	83	50 - 130	82	50 - 130	<0.1	ug/L	NC	30		
4228083	Dimethyl phthalate	2015/10/15	88	50 - 130	87	50 - 130	<0.1	ug/L	NC	30		
4228083	Fluoranthene	2015/10/15	93	50 - 130	92	50 - 130	<0.2	ug/L	NC	30		
4228083	Fluorene	2015/10/15	86	50 - 130	85	50 - 130	<0.2	ug/L	NC	30		
4228083	Indeno(1,2,3-cd)pyrene	2015/10/15	84	50 - 130	83	50 - 130	<0.1	ug/L	NC	30		
4228083	Naphthalene	2015/10/15	72	50 - 130	69	50 - 130	<0.2	ug/L	NC	30		
4228083	p-Chloroaniline	2015/10/15	69	30 - 130	72	30 - 130	<1	ug/L	NC	30		
4228083	Pentachlorophenol	2015/10/15	66	50 - 130	84	50 - 130	<0.1	ug/L	NC	30		
4228083	Phenanthrene	2015/10/15	87	50 - 130	88	50 - 130	<0.1	ug/L	NC	30		
4228083	Phenol	2015/10/15	33	30 - 130	32	30 - 130	<0.5	ug/L	NC	30		
4228083	Pyrene	2015/10/15	98	50 - 130	98	50 - 130	<0.05	ug/L	NC	30		
4228621	F2 (C10-C16 Hydrocarbons)	2015/10/15	99	50 - 130	98	60 - 130	<100	ug/L	NC	30		
4228621	F3 (C16-C34 Hydrocarbons)	2015/10/15	NC	50 - 130	105	60 - 130	<200	ug/L	NC	30		
4228621	F4 (C34-C50 Hydrocarbons)	2015/10/15	103	50 - 130	102	60 - 130	<200	ug/L	NC	30		
4230644	. Aluminum (Al)	2015/10/15	104	80 - 120	105	80 - 120	<0.0050	mg/L	1.1	20		
4230644	. Antimony (Sb)	2015/10/15	106	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		

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Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4230644	. Arsenic (As)	2015/10/15	103	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
4230644	. Barium (Ba)	2015/10/15	100	80 - 120	99	80 - 120	<0.0020	mg/L	1.8	20		
4230644	. Beryllium (Be)	2015/10/15	106	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20		
4230644	. Boron (B)	2015/10/15	107	80 - 120	103	80 - 120	<0.010	mg/L	NC	20		
4230644	. Cadmium (Cd)	2015/10/15	105	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20		
4230644	. Calcium (Ca)	2015/10/15	NC	80 - 120	102	80 - 120	<0.20	mg/L	1.7	20		
4230644	. Chromium (Cr)	2015/10/15	101	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20		
4230644	. Cobalt (Co)	2015/10/15	103	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20		
4230644	. Copper (Cu)	2015/10/15	98	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
4230644	. Iron (Fe)	2015/10/15	101	80 - 120	102	80 - 120	<0.10	mg/L	NC	20		
4230644	. Lead (Pb)	2015/10/15	100	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
4230644	. Magnesium (Mg)	2015/10/15	NC	80 - 120	103	80 - 120	<0.050	mg/L	0.22	20		
4230644	. Manganese (Mn)	2015/10/15	102	80 - 120	102	80 - 120	<0.0020	mg/L	1.1	20		
4230644	. Molybdenum (Mo)	2015/10/15	106	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
4230644	. Nickel (Ni)	2015/10/15	101	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
4230644	. Phosphorus (P)	2015/10/15	110	80 - 120	114	80 - 120	<0.10	mg/L	NC	20		
4230644	. Potassium (K)	2015/10/15	103	80 - 120	100	80 - 120	<0.20	mg/L	0.40	20		
4230644	. Selenium (Se)	2015/10/15	106	80 - 120	101	80 - 120	<0.0020	mg/L	NC	20		
4230644	. Silicon (Si)	2015/10/15	100	80 - 120	101	80 - 120	<0.050	mg/L	0.98	20		
4230644	. Silver (Ag)	2015/10/15	102	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
4230644	. Sodium (Na)	2015/10/15	NC	80 - 120	106	80 - 120	<0.10	mg/L	3.0	20		
4230644	. Strontium (Sr)	2015/10/15	NC	80 - 120	101	80 - 120	<0.0010	mg/L	2.9	20		
4230644	. Thallium (Tl)	2015/10/15	102	80 - 120	100	80 - 120	<0.000050	mg/L	NC	20		
4230644	. Titanium (Ti)	2015/10/15	104	80 - 120	101	80 - 120	<0.0050	mg/L	NC	20		
4230644	. Uranium (U)	2015/10/15	103	80 - 120	102	80 - 120	<0.00010	mg/L	3.6	20		
4230644	. Vanadium (V)	2015/10/15	105	80 - 120	104	80 - 120	<0.00050	mg/L	NC	20		
4230644	. Zinc (Zn)	2015/10/15	103	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20		

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
4230644	. Zirconium (Zr)	2015/10/15	106	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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Maxxam Job #: B5K5292
Report Date: 2015/10/16

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS-PRIVATE WELLS
Sampler Initials: JK

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Bruce Reynolds, Technical Leader

Cristina Carriere, Scientific Services

Sirimathie Aluthwala, Campobello Micro

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MICRO

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STANTEC CHAIN OF CUSTODY RECORD

1 of 1
Page 5 of 6

INVOICE INFORMATION:		REPORT INFORMATION(if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#9197 Stantec Consulting Ltd	Company Name:	#18379 Stantec Consulting Ltd	Quotation #:	B48218	Maxxam Job #:	Bottle Order #: 532470
Contact Name:	Accounts Payable	Contact Name:	Report - 1609-00764	Task #:			
Address:	49 Frederick St Kitchener ON N2H 6M7	Address:	ON	Project #:	160900764		
Phone:	(519) 579-4410 Fax: (519) 579-6733	Phone:	Fax: edde stantec.com	Profit Centre:		COC #: C#532470-05-01	Project Manager: Deepthi Shaji
Email:	Stantec.Accounts.Payable.Invoices@Stantec.com	Email:	aaron.warkentin@stantec.com, brant.gill@stantec.com,	Site #:	CLARINGTON TS-PRIVATE WELLS		
				Sampled By:	JK		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☐ Coarse; ☐ Table 3 ☐ Agri/Other ☐ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558 ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO; ☐ Other ___

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☐
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Acidity; Cr VI; Cyanide; Fluoride; Mercury	TDS; TOC; TSS+Turbidity	Reg 153 PHC - F1-F4	Reg 153 PCBs	Reg 153 VOCs	RCAp - Comp (Drinking Water) - No Filter	SVOCs	E. coli; Total Coliform; Background			# of Bottles	Comments
1		WG-160900764-201510 OK-JK23	OCT 8 2015	0939	WG	Now	✓	✓	✓	✓	–	–	–	–			21	not reportable
2		WG-160900764-201510 OK-JK24	↓	1037	WG	Now	✓	✓	✓	✓	✓	–	–	–			21	
3		WG-160900764-201510 -																
4		WG-160900764-201510 -																
5		WG-160900764-201510 -																
6		WG-160900764-201510 -																
7		WG-160900764-201510 -																
8		WG-160900764-201510 -																
9		WG-160900764-201510 -																
10		WG-160900764-201510 -																

8-Oct-15 13:30
Deepthi Shaji
B5K5292
TST WAT-001

REC'D IN WATERLOO

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
JAMIE KOCH	15/10/08	1230	[illegible]	2015/10/08	1330	
			MAGDALENA AP	2015/10/08	18:57	

Laboratory Use Only: Time Sensitive; Temperature (°C) on Receipt: 9 9 10 on ice

Custody Seal	Yes	No
Present		✓
Intact		

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxam Yellow: Client

8 | 9 | 9

Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: 160900764
Your C.O.C. #: 60278

Attention:Report - 1609-00764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2015/11/02
Report #: R3746724
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5M1891
Received: 2015/10/29, 19:56

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	2	N/A	2015/11/02	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	2	2015/10/30	2015/10/31	CAM SOP-00301	EPA 8270 m
Total Coliforms/ E. coli, CFU/100mL	1	N/A	2015/10/29	CAM SOP-00551	MOE E3407

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

Maxxam Analytics is accredited for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Deepthi Shaji, Project Manager
Email: dshaji@maxxam.ca
Phone# (905)817-5700 Ext:5807

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B5M1891
Report Date: 2015/11/02

Stantec Consulting Ltd
Client Project #: 160900764
Sampler Initials: JK

MICROBIOLOGY (WATER)

Maxxam ID		BGI096	
Sampling Date		2015/10/29 09:30	
COC Number		60278	
	UNITS	**WG-160900764 -20151029-JK3**	**QC Batch**
Microbiological			
Background	CFU/100mL	NDOGT (1)	4251491
Total Coliforms	CFU/100mL	NDOGT (1)	4251491
Escherichia coli	CFU/100mL	NDOGT (1)	4251491

QC Batch = Quality Control Batch

(1) NDOGT: No data due to Over Growth for Target Organisms, Total Coliforms and / or E.coli.

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Maxxam Job #: B5M1891
Report Date: 2015/11/02

Stantec Consulting Ltd
Client Project #: 160900764
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BGI094	BGI095	BGI095		
Sampling Date		2015/10/28 11:00	2015/10/28 11:20	2015/10/28 11:20		
COC Number		60278	60278	60278		
	UNITS	WG-160900764-20151028-JK1	WG-160900764-20151028-JK2	WG-160900764-20151028-JK2 Lab-Dup	RDL	QC Batch
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	4252270
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	4252270
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	4252270
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	4252270
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	4252270
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	4252270
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	4252270
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	4252270
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	4252270
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	4252270
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	4252270
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	4252270
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	4252270
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	4252270
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	4252270
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	4252270
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	4252270
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	4252270
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	4252270
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	4252270
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	4252270
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	4252270
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	4252270
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	4252270
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	4252270
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	4252270
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	4252270
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	4252270
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	4252270
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	4252270
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	0.1	4252270
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	4252270
p-Chloroaniline	ug/L	<1	<1	<1	1	4252270

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B5M1891
Report Date: 2015/11/02

Stantec Consulting Ltd
Client Project #: 160900764
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		BGI094	BGI095	BGI095		
Sampling Date		2015/10/28 11:00	2015/10/28 11:20	2015/10/28 11:20		
COC Number		60278	60278	60278		
	UNITS	WG-160900764-20151028-JK1	WG-160900764-20151028-JK2	WG-160900764-20151028-JK2 Lab-Dup	RDL	QC Batch
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	4252270
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	4252270
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	4252270
Pyrene	ug/L	<0.05	<0.05	<0.05	0.05	4252270
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28		0.28	4251064
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	58	65	65		4252270
2-Fluorobiphenyl	%	40 (1)	46 (1)	46 (1)		4252270
D14-Terphenyl (FS)	%	100	103	101		4252270
D5-Nitrobenzene	%	40 (1)	48 (1)	61		4252270

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B5M1891
Report Date: 2015/11/02

Stantec Consulting Ltd
Client Project #: 160900764
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: BGI094
Sample ID: WG-160900764-20151028-JK1
Matrix: Water

Collected: 2015/10/28
Shipped:
Received: 2015/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4251064	N/A	2015/11/02	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4252270	2015/10/30	2015/10/31	Kathy Horvat

Maxxam ID: BGI095
Sample ID: WG-160900764-20151028-JK2
Matrix: Water

Collected: 2015/10/28
Shipped:
Received: 2015/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4251064	N/A	2015/11/02	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	4252270	2015/10/30	2015/10/31	Kathy Horvat

Maxxam ID: BGI095 Dup
Sample ID: WG-160900764-20151028-JK2
Matrix: Water

Collected: 2015/10/28
Shipped:
Received: 2015/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	4252270	2015/10/30	2015/10/31	Kathy Horvat

Maxxam ID: BGI096
Sample ID: WG-160900764-20151029-JK3
Matrix: Water

Collected: 2015/10/29
Shipped:
Received: 2015/10/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Coliforms/ E. coli, CFU/100mL	PL	4251491	N/A	2015/10/29	Ranju Chaudhari

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Maxxam Job #: B5M1891
Report Date: 2015/11/02

Stantec Consulting Ltd
Client Project #: 160900764
Sampler Initials: JK

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.3°C

Results relate only to the items tested.

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Maxxam Job #: B5M1891
Report Date: 2015/11/02

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
4252270	2,4,6-Tribromophenol	2015/10/31	77	50 - 130	88	50 - 130	79	%		
4252270	2-Fluorobiphenyl	2015/10/31	43 (1)	50 - 130	70	50 - 130	77	%		
4252270	D14-Terphenyl (FS)	2015/10/31	103	50 - 130	103	50 - 130	102	%		
4252270	D5-Nitrobenzene	2015/10/31	47 (1)	50 - 130	80	50 - 130	73	%		
4252270	1,2,4-Trichlorobenzene	2015/10/31	32 (2)	40 - 130	54	40 - 130	<0.1	ug/L	NC	30
4252270	1-Methylnaphthalene	2015/10/31	52	50 - 130	86	50 - 130	<0.2	ug/L	NC	30
4252270	2,4,5-Trichlorophenol	2015/10/31	61	50 - 130	88	50 - 130	<0.2	ug/L	NC	30
4252270	2,4,6-Trichlorophenol	2015/10/31	57	50 - 130	87	50 - 130	<0.2	ug/L	NC	30
4252270	2,4-Dichlorophenol	2015/10/31	42 (1)	50 - 130	71	50 - 130	<0.1	ug/L	NC	30
4252270	2,4-Dimethylphenol	2015/10/31	41	30 - 130	65	30 - 130	<0.5	ug/L	NC	30
4252270	2,4-Dinitrophenol	2015/10/31	69	30 - 130	77	30 - 130	<2	ug/L	NC	30
4252270	2,4-Dinitrotoluene	2015/10/31	89	50 - 130	93	50 - 130	<0.3	ug/L	NC	30
4252270	2,6-Dinitrotoluene	2015/10/31	73	50 - 130	91	50 - 130	<0.3	ug/L	NC	30
4252270	2-Chlorophenol	2015/10/31	41 (1)	50 - 130	73	50 - 130	<0.1	ug/L	NC	30
4252270	2-Methylnaphthalene	2015/10/31	47 (1)	50 - 130	78	50 - 130	<0.2	ug/L	NC	30
4252270	3,3'-Dichlorobenzidine	2015/10/31	99	30 - 130	105	30 - 130	<0.5	ug/L	NC	30
4252270	Acenaphthene	2015/10/31	61	50 - 130	91	50 - 130	<0.2	ug/L	NC	30
4252270	Acenaphthylene	2015/10/31	59	50 - 130	88	50 - 130	<0.2	ug/L	NC	30
4252270	Anthracene	2015/10/31	87	50 - 130	95	50 - 130	<0.05	ug/L	NC	30
4252270	Benzo(a)anthracene	2015/10/31	105	50 - 130	105	50 - 130	<0.05	ug/L	NC	30
4252270	Benzo(a)pyrene	2015/10/31	102	50 - 130	103	50 - 130	<0.01	ug/L	NC	30
4252270	Benzo(b/j)fluoranthene	2015/10/31	110	50 - 130	111	50 - 130	<0.05	ug/L	NC	30
4252270	Benzo(g,h,i)perylene	2015/10/31	98	50 - 130	105	50 - 130	<0.05	ug/L	NC	30
4252270	Benzo(k)fluoranthene	2015/10/31	108	50 - 130	106	50 - 130	<0.05	ug/L	NC	30
4252270	Biphenyl	2015/10/31	53	50 - 130	84	50 - 130	<0.1	ug/L	NC	30
4252270	Bis(2-chloroethyl)ether	2015/10/31	47 (1)	50 - 130	85	50 - 130	<0.5	ug/L	NC	30
4252270	Bis(2-chloroisopropyl)ether	2015/10/31	42 (1)	50 - 130	76	50 - 130	<0.5	ug/L	NC	30
4252270	Bis(2-ethylhexyl)phthalate	2015/10/31	97	50 - 130	98	50 - 130	<1	ug/L	NC	30
4252270	Chrysene	2015/10/31	103	50 - 130	103	50 - 130	<0.05	ug/L	NC	30
4252270	Dibenz(a,h)anthracene	2015/10/31	94	50 - 130	100	50 - 130	<0.1	ug/L	NC	30
4252270	Diethyl phthalate	2015/10/31	82	50 - 130	87	50 - 130	<0.1	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
4252270	Dimethyl phthalate	2015/10/31	79	50 - 130	95	50 - 130	<0.1	ug/L	NC	30
4252270	Fluoranthene	2015/10/31	102	50 - 130	102	50 - 130	<0.2	ug/L	NC	30
4252270	Fluorene	2015/10/31	69	50 - 130	93	50 - 130	<0.2	ug/L	NC	30
4252270	Indeno(1,2,3-cd)pyrene	2015/10/31	94	50 - 130	101	50 - 130	<0.1	ug/L	NC	30
4252270	Naphthalene	2015/10/31	44 (1)	50 - 130	77	50 - 130	<0.2	ug/L	NC	30
4252270	p-Chloroaniline	2015/10/31	56	30 - 130	89	30 - 130	<1	ug/L	NC	30
4252270	Pentachlorophenol	2015/10/31	74	50 - 130	71	50 - 130	<0.1	ug/L	NC	30
4252270	Phenanthrene	2015/10/31	88	50 - 130	96	50 - 130	<0.1	ug/L	NC	30
4252270	Phenol	2015/10/31	20 (1)	30 - 130	35	30 - 130	<0.5	ug/L	NC	30
4252270	Pyrene	2015/10/31	118	50 - 130	118	50 - 130	<0.05	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) The recovery was below the lower control limit. This may represent a low bias in some results for flagged analytes.

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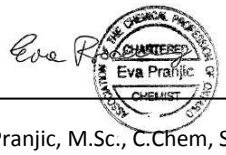
Maxxam Job #: B5M1891
Report Date: 2015/11/02

Stantec Consulting Ltd
Client Project #: 160900764
Sampler Initials: JK

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Ranju Chaudhari

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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RUSH

Maxxam A Bureau Veritas Group Company

...ello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/2

CHAIN OF CUSTODY RECORD 60278

Page ____ of ____

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: Stantec Consulting	Company Name:	Quotation #:	Regular TAT (5-7 days) Most analyses
Contact Name: Brant Gill	Contact Name:	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: Markham ON	Address:	Project #: 160900764	Rush TAT (Surcharges will be applied) 1 Day / 2 Days / 3-4 Days
		Site Location:	
Phone: 1-905-415-6338 Fax:	Phone: Fax:	Site #:	
Email: brant.gill@stantec.com →	and Email: edd@stantec.com, aaron.warkentin@stantec.com	Sampled By: JK.	Date Required: Mon Nov 2/15

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Rush Confirmation #: DES102804

Regulation 153: Table 1, Table 2, Table 3, Table ____, Res/Park, Ind/Comm, Agri/ Other, Med/ Fine, Coarse; FOR RSC (PLEASE CIRCLE) Y / N

Other Regulations: CCME, MISA, PWQO, Other (Specify), REG 558 (MIN. 3 DAY TAT REQUIRED), Sanitary Sewer Bylaw, Storm Sewer Bylaw, Region ____

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Analysis Requested: # OF CONTAINERS SUBMITTED; FIELD FILTERED (CIRCLE) Metals / Hg / CrVI; BTEX/ PHC F1; PHCs F2 - F4; VOCs; REFER TO BACK OF COC: REG 153 METALS & INORGANICS, REG 153 ICPMS METALS, REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B); SVOCs; Bact: Total Coliforms + ECOLI; HOLD - DO NOT ANALYZE

#	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED	SVOCs	Bact: Total Coliforms + ECOLI
1	WG-160900764-20151028-JK1	2015/10/28	1100	WG	2	None	✓	
2	WG-160900764-20151028-JK2	2015/10/28	1120	WG	2	None	✓	
3	WG-160900784-20151029-JK3	2015/10/29	0930	WG	1	None		✓✓
4								
5								
6								
7								
8								
9								
10								

LABORATORY USE ONLY

CUSTODY SEAL Y / N Present	Intact	COOLER TEMPERATURES
N	N	3/7/3

COOLING MEDIA PRESENT: (Y) / N

COMMENTS

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)
JAMIE KOCH	2015/10/29	1956	[signature]	2015/10/29	~~19:56~~ 19:56

29-Oct-15 19:56
Augustyna Dobosz
B5M1891
ABH ENV-943

COC-1004 (10/14) - ENV. ENG.