

Attention: Lesley Veale, Brant Gill,

Stantec Consulting Ltd - Clarington
ON
Canada

Your P.O. #: 16400NR
Your Project #: 160900764
Site#: GW MONITORING WELLS
Site Location: CLARINGTON TS-MONITORING WELL
Your C.O.C. #: 508378-01-01

Report Date: 2015/04/21
Report #: R3396389
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B561683

Received: 2015/04/08, 16:43

Sample Matrix: Water
Samples Received: 12

Analyses	Quantity	Date		Laboratory Method	Reference
		Extracted	Analyzed		
Methylnaphthalene Sum	12	N/A	2015/04/17	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	2	2015/04/14	2015/04/15	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	10	2015/04/14	2015/04/16	CAM SOP-00301	EPA 8270 m
Acidity as CaCO3 in liquid (1, 2)	5	2015/04/09	2015/04/20	SLA SOP-00100	APHA SM2310B (Mod)
Alkalinity	5	N/A	2015/04/09	CAM SOP-00448	SM 22 2320 B m
Carbonate, Bicarbonate and Hydroxide	5	N/A	2015/04/10	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	5	N/A	2015/04/13	CAM SOP-00226	EPA 8260C m
Chloride by Automated Colourimetry	5	N/A	2015/04/10	CAM SOP-00463	EPA 325.2 m
Conductivity	5	N/A	2015/04/09	CAM SOP-00414	SM 22 2510 m
Chromium (VI) in Water	5	N/A	2015/04/09	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	5	N/A	2015/04/10	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (3)	5	N/A	2015/04/10	CAM SOP-00446	SM 22 5310 B m
Petroleum Hydro. CCME F1 & BTEX in Water	5	N/A	2015/04/14	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water	5	2015/04/14	2015/04/15	CAM SOP-00316	CCME PHC-CWS m
Fluoride	5	2015/04/09	2015/04/09	CAM SOP-00449	SM 22 4500-F C m
Hardness (calculated as CaCO3)	5	N/A	2015/04/13	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	3	2015/04/13	2015/04/14	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	2	2015/04/14	2015/04/14	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	5	N/A	2015/04/10	CAM SOP-00447	EPA 6020A m
Ion Balance (% Difference)	5	N/A	2015/04/13		
Anion and Cation Sum	5	N/A	2015/04/13		
Total Ammonia-N	5	N/A	2015/04/15	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (4)	2	N/A	2015/04/13	CAM SOP-00440	SM 22 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (4)	3	N/A	2015/04/15	CAM SOP-00440	SM 22 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	5	2015/04/09	2015/04/10	CAM SOP-00309	EPA 8082A m
pH	5	N/A	2015/04/09	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	5	N/A	2015/04/10	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	5	N/A	2015/04/13		
Sat. pH and Langelier Index (@ 4C)	5	N/A	2015/04/13		
Sulphate by Automated Colourimetry	5	N/A	2015/04/10	CAM SOP-00464	EPA 375.4 m

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Analyses	Date		Laboratory Method	Reference
	Quantity	Extracted		
Total Dissolved Solids (TDS calc)	5	N/A	2015/04/13	
Total Dissolved Solids	5	N/A	2015/04/11 CAM SOP-00428	SM 22 2540C m
Total Organic Carbon (TOC) (5)	5	N/A	2015/04/10 CAM SOP-00446	SM 22 5310B m
Total Suspended Solids	5	N/A	2015/04/10 CAM SOP-00428	SM 22 2540D m
Turbidity	5	N/A	2015/04/09 CAM SOP-00417	SM 22 2130 B m
Volatile Organic Compounds in Water	5	N/A	2015/04/10 CAM SOP 00228	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.

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 the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (5) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Krystal Seedial, Project Manager

Email: KSeedial@maxxam.ca

Phone# (905) 817-5700

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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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Stantec Consulting Ltd - Clarington
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Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABP939			ABP941	ABP941		
Sampling Date		2015/04/07 13:34			2015/04/08 10:20	2015/04/08 10:20		
COC Number		508378-01-01			508378-01-01	508378-01-01		
	Units	WG-160900764 -20150407-RD01	RDL	QC Batch	WG-160900764 -20150408-RD02	WG-160900764 -20150408-RD02 Lab-Dup	RDL	QC Batch

Calculated Parameters								
Anion Sum	me/L	6.31	N/A	3974714	20.1		N/A	3974714
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	150	1.0	3974710	170		1.0	3974710
Calculated TDS	mg/L	380	1.0	3974709	1300		1.0	3974709
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.2	1.0	3974710	<1.0		1.0	3974710
Cation Sum	me/L	6.20	N/A	3974714	21.4		N/A	3974714
Hardness (CaCO3)	mg/L	120	1.0	3974533	640		1.0	3974533
Ion Balance (% Difference)	%	0.890	N/A	3974713	3.13		N/A	3974713
Langelier Index (@ 20C)	N/A	0.102		3974707	0.603			3974707
Langelier Index (@ 4C)	N/A	-0.147		3974708	0.358			3974708
Saturation pH (@ 20C)	N/A	7.84		3974707	7.17			3974707
Saturation pH (@ 4C)	N/A	8.09		3974708	7.41			3974708

Inorganics								
Total Ammonia-N	mg/L	<0.050	0.050	3977882	<0.050		0.050	3977882
Conductivity	umho/cm	630	1.0	3976633	1900		1.0	3976633
Dissolved Organic Carbon	mg/L	6.3	0.20	3977046	2.0		0.20	3977046
Orthophosphate (P)	mg/L	<0.010	0.010	3977280	<0.010		0.010	3977280
pH	pH	7.94	N/A	3976678	7.77		N/A	3976678
Dissolved Sulphate (SO4)	mg/L	150	1	3977281	760		5	3977281
Alkalinity (Total as CaCO3)	mg/L	150	1.0	3976675	170		1.0	3976675
Dissolved Chloride (Cl)	mg/L	11	1	3977278	28		1	3977278
Nitrite (N)	mg/L	<0.010	0.010	3976397	<0.010		0.010	3976821
Nitrate (N)	mg/L	<0.10	0.10	3976397	0.97		0.10	3976821
Nitrate + Nitrite	mg/L	<0.10	0.10	3976397	0.97		0.10	3976821

Metals								
Dissolved Aluminum (Al)	mg/L	0.0051	0.0050	3977801	<0.0050	<0.0050	0.0050	3977801
Dissolved Antimony (Sb)	mg/L	0.00067	0.00050	3977801	<0.00050	<0.00050	0.00050	3977801
Dissolved Arsenic (As)	mg/L	0.0012	0.0010	3977801	<0.0010	<0.0010	0.0010	3977801
Dissolved Barium (Ba)	mg/L	0.070	0.0020	3977801	0.024	0.025	0.0020	3977801
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	3977801	<0.00050	<0.00050	0.00050	3977801
Dissolved Boron (B)	mg/L	0.18	0.010	3977801	0.35	0.35	0.010	3977801

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

Maxxam Job #: B561683
Report Date: 2015/04/21

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Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABP939			ABP941	ABP941		
Sampling Date		2015/04/07 13:34			2015/04/08 10:20	2015/04/08 10:20		
COC Number		508378-01-01			508378-01-01	508378-01-01		
	Units	WG-160900764 -20150407-RD01	RDL	QC Batch	WG-160900764 -20150408-RD02	WG-160900764 -20150408-RD02 Lab-Dup	RDL	QC Batch
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	3977801	<0.00010	<0.00010	0.00010	3977801
Dissolved Calcium (Ca)	mg/L	28	0.20	3977801	160	160	0.20	3977801
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	3977801	<0.0050	<0.0050	0.0050	3977801
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	3977801	<0.00050	<0.00050	0.00050	3977801
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	3977801	0.0013	0.0013	0.0010	3977801
Dissolved Iron (Fe)	mg/L	<0.10	0.10	3977801	<0.10	<0.10	0.10	3977801
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	3977801	<0.00050	<0.00050	0.00050	3977801
Dissolved Magnesium (Mg)	mg/L	11	0.050	3977801	59	59	0.050	3977801
Dissolved Manganese (Mn)	mg/L	0.022	0.0020	3977801	0.022	0.021	0.0020	3977801
Dissolved Molybdenum (Mo)	mg/L	0.048	0.00050	3977801	0.067	0.064	0.00050	3977801
Dissolved Nickel (Ni)	mg/L	0.0024	0.0010	3977801	0.0018	0.0020	0.0010	3977801
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	3977801	<0.10	<0.10	0.10	3977801
Dissolved Potassium (K)	mg/L	2.8	0.20	3977801	9.8	9.6	0.20	3977801
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	3977801	<0.0020	<0.0020	0.0020	3977801
Dissolved Silicon (Si)	mg/L	3.4	0.050	3977801	4.7	4.8	0.050	3977801
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	3977801	<0.00010	<0.00010	0.00010	3977801
Dissolved Sodium (Na)	mg/L	88	0.10	3977801	190	190	0.10	3977801
Dissolved Strontium (Sr)	mg/L	0.54	0.0010	3977801	2.2	2.2	0.0010	3977801
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	3977801	<0.000050	<0.000050	0.000050	3977801
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	3977801	<0.0050	<0.0050	0.0050	3977801
Dissolved Uranium (U)	mg/L	0.0038	0.00010	3977801	0.0073	0.0071	0.00010	3977801
Dissolved Vanadium (V)	mg/L	0.00051	0.00050	3977801	<0.00050	<0.00050	0.00050	3977801
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	3977801	<0.0050	<0.0050	0.0050	3977801
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	3977801	<0.0010	<0.0010	0.0010	3977801
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								

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Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABP943	ABP943			ABP945		
Sampling Date		2015/04/08 10:08	2015/04/08 10:08			2015/04/08 13:50		
COC Number		508378-01-01	508378-01-01			508378-01-01		
	Units	WG-160900764 -20150408-RD03	WG-160900764 -20150408-RD03 Lab-Dup	RDL	QC Batch	WG-160900764 -20150408-RD04	RDL	QC Batch

Calculated Parameters								
Anion Sum	me/L	7.62		N/A	3974714	8.20	N/A	3974714
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	230		1.0	3974710	210	1.0	3974710
Calculated TDS	mg/L	430		1.0	3974709	490	1.0	3974709
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.9		1.0	3974710	1.3	1.0	3974710
Cation Sum	me/L	7.88		N/A	3974714	8.25	N/A	3974714
Hardness (CaCO3)	mg/L	350		1.0	3974533	400	1.0	3974533
Ion Balance (% Difference)	%	1.68		N/A	3974713	0.300	N/A	3974713
Langelier Index (@ 20C)	N/A	0.703			3974707	0.682		3974707
Langelier Index (@ 4C)	N/A	0.454			3974708	0.434		3974708
Saturation pH (@ 20C)	N/A	7.23			3974707	7.13		3974707
Saturation pH (@ 4C)	N/A	7.48			3974708	7.38		3974708

Inorganics								
Total Ammonia-N	mg/L	<0.050		0.050	3977882	<0.050	0.050	3977882
Conductivity	umho/cm	720	720	1.0	3976633	790	1.0	3976633
Dissolved Organic Carbon	mg/L	1.8		0.20	3977046	0.96	0.20	3977046
Orthophosphate (P)	mg/L	<0.010	<0.010	0.010	3977280	<0.010	0.010	3977280
pH	pH	7.93	7.90	N/A	3976678	7.81	N/A	3976678
Dissolved Sulphate (SO4)	mg/L	110	110	1	3977281	87	1	3977281
Alkalinity (Total as CaCO3)	mg/L	230	230	1.0	3976675	210	1.0	3976675
Dissolved Chloride (Cl)	mg/L	16	15	1	3977278	26	1	3977278
Nitrite (N)	mg/L	0.035	0.033	0.010	3976397	<0.010	0.010	3976821
Nitrate (N)	mg/L	3.59	3.62	0.10	3976397	20.4	1.0	3976821
Nitrate + Nitrite	mg/L	3.63	3.65	0.10	3976397	20.4	1.0	3976821

Metals								
Dissolved Aluminum (Al)	mg/L	<0.0050		0.0050	3977801	<0.0050	0.0050	3977801
Dissolved Antimony (Sb)	mg/L	<0.00050		0.00050	3977801	<0.00050	0.00050	3977801
Dissolved Arsenic (As)	mg/L	<0.0010		0.0010	3977801	<0.0010	0.0010	3977801
Dissolved Barium (Ba)	mg/L	0.054		0.0020	3977801	0.062	0.0020	3977801
Dissolved Beryllium (Be)	mg/L	<0.00050		0.00050	3977801	<0.00050	0.00050	3977801
Dissolved Boron (B)	mg/L	0.060		0.010	3977801	0.012	0.010	3977801

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RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABP943	ABP943			ABP945		
Sampling Date		2015/04/08 10:08	2015/04/08 10:08			2015/04/08 13:50		
COC Number		508378-01-01	508378-01-01			508378-01-01		
	Units	WG-160900764 -20150408-RD03	WG-160900764 -20150408-RD03 Lab-Dup	RDL	QC Batch	WG-160900764 -20150408-RD04	RDL	QC Batch
Dissolved Cadmium (Cd)	mg/L	<0.00010		0.00010	3977801	<0.00010	0.00010	3977801
Dissolved Calcium (Ca)	mg/L	72		0.20	3977801	100	0.20	3977801
Dissolved Chromium (Cr)	mg/L	<0.0050		0.0050	3977801	<0.0050	0.0050	3977801
Dissolved Cobalt (Co)	mg/L	<0.00050		0.00050	3977801	<0.00050	0.00050	3977801
Dissolved Copper (Cu)	mg/L	<0.0010		0.0010	3977801	<0.0010	0.0010	3977801
Dissolved Iron (Fe)	mg/L	<0.10		0.10	3977801	<0.10	0.10	3977801
Dissolved Lead (Pb)	mg/L	<0.00050		0.00050	3977801	<0.00050	0.00050	3977801
Dissolved Magnesium (Mg)	mg/L	41		0.050	3977801	35	0.050	3977801
Dissolved Manganese (Mn)	mg/L	0.011		0.0020	3977801	0.0057	0.0020	3977801
Dissolved Molybdenum (Mo)	mg/L	0.0076		0.00050	3977801	0.0032	0.00050	3977801
Dissolved Nickel (Ni)	mg/L	<0.0010		0.0010	3977801	<0.0010	0.0010	3977801
Dissolved Phosphorus (P)	mg/L	<0.10		0.10	3977801	<0.10	0.10	3977801
Dissolved Potassium (K)	mg/L	5.7		0.20	3977801	2.8	0.20	3977801
Dissolved Selenium (Se)	mg/L	<0.0020		0.0020	3977801	<0.0020	0.0020	3977801
Dissolved Silicon (Si)	mg/L	6.0		0.050	3977801	7.6	0.050	3977801
Dissolved Silver (Ag)	mg/L	<0.00010		0.00010	3977801	<0.00010	0.00010	3977801
Dissolved Sodium (Na)	mg/L	18		0.10	3977801	5.4	0.10	3977801
Dissolved Strontium (Sr)	mg/L	0.78		0.0010	3977801	0.34	0.0010	3977801
Dissolved Thallium (Tl)	mg/L	<0.000050		0.000050	3977801	<0.000050	0.000050	3977801
Dissolved Titanium (Ti)	mg/L	<0.0050		0.0050	3977801	<0.0050	0.0050	3977801
Dissolved Uranium (U)	mg/L	0.0040		0.00010	3977801	0.0018	0.00010	3977801
Dissolved Vanadium (V)	mg/L	0.00052		0.00050	3977801	<0.00050	0.00050	3977801
Dissolved Zinc (Zn)	mg/L	<0.0050		0.0050	3977801	<0.0050	0.0050	3977801
Dissolved Zirconium (Zr)	mg/L	<0.0010		0.0010	3977801	<0.0010	0.0010	3977801
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								

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Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABP945		ABP947		
Sampling Date		2015/04/08 13:50		2015/04/08 13:11		
COC Number		508378-01-01		508378-01-01		
	Units	WG-160900764 -20150408-RD04 Lab-Dup	RDL	WG-160900764 -20150408-RD05	RDL	QC Batch

Calculated Parameters

Anion Sum	me/L		N/A	4.59	N/A	3974714
Bicarb. Alkalinity (calc. as CaCO3)	mg/L		1.0	180	1.0	3974710
Calculated TDS	mg/L		1.0	250	1.0	3974709
Carb. Alkalinity (calc. as CaCO3)	mg/L		1.0	2.1	1.0	3974710
Cation Sum	me/L		N/A	4.59	N/A	3974714
Hardness (CaCO3)	mg/L		1.0	200	1.0	3974533
Ion Balance (% Difference)	%		N/A	0.0400	N/A	3974713
Langelier Index (@ 20C)	N/A			0.373		3974707
Langelier Index (@ 4C)	N/A			0.123		3974708
Saturation pH (@ 20C)	N/A			7.71		3974707
Saturation pH (@ 4C)	N/A			7.96		3974708

Inorganics

Total Ammonia-N	mg/L	<0.050	0.050	0.073	0.050	3977882
Conductivity	umho/cm		1.0	420	1.0	3976633
Dissolved Organic Carbon	mg/L		0.20	0.68	0.20	3977046
Orthophosphate (P)	mg/L		0.010	<0.010	0.010	3977280
pH	pH		N/A	8.08	N/A	3976678
Dissolved Sulphate (SO4)	mg/L		1	24	1	3977281
Alkalinity (Total as CaCO3)	mg/L		1.0	190	1.0	3976675
Dissolved Chloride (Cl)	mg/L		1	13	1	3977278
Nitrite (N)	mg/L		0.010	0.013	0.010	3976821
Nitrate (N)	mg/L		1.0	<0.10	0.10	3976821
Nitrate + Nitrite	mg/L		1.0	<0.10	0.10	3976821

Metals

Dissolved Aluminum (Al)	mg/L		0.0050	<0.0050	0.0050	3977801
Dissolved Antimony (Sb)	mg/L		0.00050	<0.00050	0.00050	3977801
Dissolved Arsenic (As)	mg/L		0.0010	0.0010	0.0010	3977801
Dissolved Barium (Ba)	mg/L		0.0020	0.10	0.0020	3977801
Dissolved Beryllium (Be)	mg/L		0.00050	<0.00050	0.00050	3977801
Dissolved Boron (B)	mg/L		0.010	0.032	0.010	3977801

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

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABP945		ABP947		
Sampling Date		2015/04/08 13:50		2015/04/08 13:11		
COC Number		508378-01-01		508378-01-01		
	Units	WG-160900764 -20150408-RD04 Lab-Dup	RDL	WG-160900764 -20150408-RD05	RDL	QC Batch
Dissolved Cadmium (Cd)	mg/L		0.00010	<0.00010	0.00010	3977801
Dissolved Calcium (Ca)	mg/L		0.20	26	0.20	3977801
Dissolved Chromium (Cr)	mg/L		0.0050	<0.0050	0.0050	3977801
Dissolved Cobalt (Co)	mg/L		0.00050	<0.00050	0.00050	3977801
Dissolved Copper (Cu)	mg/L		0.0010	<0.0010	0.0010	3977801
Dissolved Iron (Fe)	mg/L		0.10	0.22	0.10	3977801
Dissolved Lead (Pb)	mg/L		0.00050	<0.00050	0.00050	3977801
Dissolved Magnesium (Mg)	mg/L		0.050	33	0.050	3977801
Dissolved Manganese (Mn)	mg/L		0.0020	0.0065	0.0020	3977801
Dissolved Molybdenum (Mo)	mg/L		0.00050	0.0019	0.00050	3977801
Dissolved Nickel (Ni)	mg/L		0.0010	<0.0010	0.0010	3977801
Dissolved Phosphorus (P)	mg/L		0.10	<0.10	0.10	3977801
Dissolved Potassium (K)	mg/L		0.20	2.7	0.20	3977801
Dissolved Selenium (Se)	mg/L		0.0020	<0.0020	0.0020	3977801
Dissolved Silicon (Si)	mg/L		0.050	11	0.050	3977801
Dissolved Silver (Ag)	mg/L		0.00010	<0.00010	0.00010	3977801
Dissolved Sodium (Na)	mg/L		0.10	12	0.10	3977801
Dissolved Strontium (Sr)	mg/L		0.0010	0.60	0.0010	3977801
Dissolved Thallium (Tl)	mg/L		0.000050	<0.000050	0.000050	3977801
Dissolved Titanium (Ti)	mg/L		0.0050	<0.0050	0.0050	3977801
Dissolved Uranium (U)	mg/L		0.00010	<0.00010	0.00010	3977801
Dissolved Vanadium (V)	mg/L		0.00050	<0.00050	0.00050	3977801
Dissolved Zinc (Zn)	mg/L		0.0050	<0.0050	0.0050	3977801
Dissolved Zirconium (Zr)	mg/L		0.0010	<0.0010	0.0010	3977801
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
Lab-Dup = Laboratory Initiated Duplicate						

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		ABP939	ABP941	ABP943	ABP943	ABP945		
Sampling Date		2015/04/07 13:34	2015/04/08 10:20	2015/04/08 10:08	2015/04/08 10:08	2015/04/08 13:50		
COC Number		508378-01-01	508378-01-01	508378-01-01	508378-01-01	508378-01-01		
	Units	WG-160900764 -20150407-RD01	WG-160900764 -20150408-RD02	WG-160900764 -20150408-RD03	WG-160900764 -20150408-RD03 Lab-Dup	WG-160900764 -20150408-RD04	RDL	QC Batch

Inorganics								
Acidity as CaCO3	mg/L	<10	14	14		11	10	3976824
Total Dissolved Solids	mg/L	424	1490	442		476	10	3977639
Fluoride (F-)	mg/L	0.62	0.30	0.29	0.29	0.13	0.10	3976613
Free Cyanide	ug/L	<2	<2	<2		<2	2	3977020
Total Organic Carbon (TOC)	mg/L	6.9	2.8	2.0		0.97	0.20	3976862
Total Suspended Solids	mg/L	11	200	<10		10	10	3977634
Turbidity	NTU	31	45	3.4	3.7	6.6	0.2	3976570

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

Maxxam ID		ABP947	ABP947		
Sampling Date		2015/04/08 13:11	2015/04/08 13:11		
COC Number		508378-01-01	508378-01-01		
	Units	WG-160900764 -20150408-RD05	WG-160900764 -20150408-RD05 Lab-Dup	RDL	QC Batch

Inorganics					
Acidity as CaCO3	mg/L	<10	<10	10	3976824
Total Dissolved Solids	mg/L	218		10	3977639
Fluoride (F-)	mg/L	0.32		0.10	3976613
Free Cyanide	ug/L	<2		2	3977020
Total Organic Carbon (TOC)	mg/L	0.85		0.20	3976862
Total Suspended Solids	mg/L	240		10	3977634
Turbidity	NTU	68		0.2	3976570

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

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		ABP939	ABP941	ABP941		ABP943		
Sampling Date		2015/04/07 13:34	2015/04/08 10:20	2015/04/08 10:20		2015/04/08 10:08		
COC Number		508378-01-01	508378-01-01	508378-01-01		508378-01-01		
	Units	WG-160900764 -20150407-RD01	WG-160900764 -20150408-RD02	WG-160900764 -20150408-RD02 Lab-Dup	QC Batch	WG-160900764 -20150408-RD03	RDL	QC Batch

Metals								
Chromium (VI)	ug/L	<0.50	<0.50		3976732	<0.50	0.50	3976732
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	3980040	<0.00010	0.00010	3981150

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

Maxxam ID		ABP945		ABP947		
Sampling Date		2015/04/08 13:50		2015/04/08 13:11		
COC Number		508378-01-01		508378-01-01		
	Units	WG-160900764 -20150408-RD04	QC Batch	WG-160900764 -20150408-RD05	RDL	QC Batch

Metals						
Chromium (VI)	ug/L	0.80	3976732	<0.50	0.50	3976732
Mercury (Hg)	mg/L	<0.00010	3981150	<0.00010	0.00010	3980040

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PCBS (WATER)

Maxxam ID		ABP939	ABP941	ABP943	ABP945	ABP947		
Sampling Date		2015/04/07 13:34	2015/04/08 10:20	2015/04/08 10:08	2015/04/08 13:50	2015/04/08 13:11		
COC Number		508378-01-01	508378-01-01	508378-01-01	508378-01-01	508378-01-01		
	Units	WG-160900764 -20150407-RD01	WG-160900764 -20150408-RD02	WG-160900764 -20150408-RD03	WG-160900764 -20150408-RD04	WG-160900764 -20150408-RD05	RDL	QC Batch
PCBs								
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3976592
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3976592
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3976592
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3976592
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3976592
Surrogate Recovery (%)								
Decachlorobiphenyl	%	91	90	96	90	97		3976592
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		ABP939	ABP939	ABP941	ABP941	ABP943		
Sampling Date		2015/04/07 13:34	2015/04/07 13:34	2015/04/08 10:20	2015/04/08 10:20	2015/04/08 10:08		
COC Number		508378-01-01	508378-01-01	508378-01-01	508378-01-01	508378-01-01		
	Units	WG-160900764 -20150407-RD01	WG-160900764 -20150407-RD01 Lab-Dup	WG-160900764 -20150408-RD02	WG-160900764 -20150408-RD02 Lab-Dup	WG-160900764 -20150408-RD03	RDL	QC Batch
BTEX & F1 Hydrocarbons								
F1 (C6-C10)	ug/L	<25	<25	<25		<25	25	3980454
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25		<25	25	3980454
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100		<100	<100	<100	100	3982128
F3 (C16-C34 Hydrocarbons)	ug/L	<200		<200	<200	<200	200	3982128
F4 (C34-C50 Hydrocarbons)	ug/L	<200		<200	<200	<200	200	3982128
Reached Baseline at C50	ug/L	Yes		Yes	Yes	Yes		3982128
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	103	103	101		105		3980454
4-Bromofluorobenzene	%	104	101	105		103		3980454
D10-Ethylbenzene	%	98	94	93		92		3980454
D4-1,2-Dichloroethane	%	96	95	91		98		3980454
o-Terphenyl	%	93		94	93	95		3982128
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		ABP945	ABP947		
Sampling Date		2015/04/08 13:50	2015/04/08 13:11		
COC Number		508378-01-01	508378-01-01		
	Units	WG-160900764 -20150408-RD04	WG-160900764 -20150408-RD05	RDL	QC Batch
BTEX & F1 Hydrocarbons					
F1 (C6-C10)	ug/L	<25	<25	25	3980454
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	3980454
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	3982128
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	3982128
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	3982128
Reached Baseline at C50	ug/L	Yes	Yes		3982128
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	101	102		3980454
4-Bromofluorobenzene	%	103	103		3980454
D10-Ethylbenzene	%	90	94		3980454
D4-1,2-Dichloroethane	%	93	93		3980454
o-Terphenyl	%	92	91		3982128
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABP939	ABP940	ABP941	ABP942		
Sampling Date		2015/04/07 13:34	2015/04/07 13:34	2015/04/08 10:20	2015/04/08 10:20		
COC Number		508378-01-01	508378-01-01	508378-01-01	508378-01-01		
	Units	WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A	RDL	QC Batch

Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3981051
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	3981051
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	3981051
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	3981051
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3981051
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	3981051
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3981051
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3981051
Bis(2-ethylhexyl)phthalate	ug/L	4	2	2	<1	1	3981051
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABP939	ABP940	ABP941	ABP942		
Sampling Date		2015/04/07 13:34	2015/04/07 13:34	2015/04/08 10:20	2015/04/08 10:20		
COC Number		508378-01-01	508378-01-01	508378-01-01	508378-01-01		
	Units	WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A	RDL	QC Batch
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	3981051
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3981051
Pyrene	ug/L	0.08	<0.05	<0.05	<0.05	0.05	3981051
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	3974864
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	59	68	64	70		3981051
2-Fluorobiphenyl	%	61	45 (1)	50	57		3981051
D14-Terphenyl (FS)	%	76	24 (1)	79	18 (1)		3981051
D5-Nitrobenzene	%	60	58	66	68		3981051
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 #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABP943	ABP944	ABP945	ABP946		
Sampling Date		2015/04/08 10:08	2015/04/08 10:08	2015/04/08 13:50	2015/04/08 13:50		
COC Number		508378-01-01	508378-01-01	508378-01-01	508378-01-01		
	Units	WG-160900764 -20150408-RD03	WG-160900764-20150408- RD03A	WG-160900764 -20150408-RD04	WG-160900764-20150408- RD04A	RDL	QC Batch

Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3981051
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	3981051
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	3981051
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	3981051
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3981051
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	3981051
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3981051
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3981051
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	3981051
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3981051

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABP943	ABP944	ABP945	ABP946		
Sampling Date		2015/04/08 10:08	2015/04/08 10:08	2015/04/08 13:50	2015/04/08 13:50		
COC Number		508378-01-01	508378-01-01	508378-01-01	508378-01-01		
	Units	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20150408-RD04	WG-160900764-20150408-RD04A	RDL	QC Batch
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	3981051
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3981051
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3981051
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3981051
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	3974864
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	62	67	61	65		3981051
2-Fluorobiphenyl	%	47 (1)	58	39 (1)	54		3981051
D14-Terphenyl (FS)	%	80	16 (1)	83	28 (1)		3981051
D5-Nitrobenzene	%	63	68	51	61		3981051
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 #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABP947	ABP948	ABQ103		ABQ104		
Sampling Date		2015/04/08 13:11	2015/04/08 13:11	2015/04/07		2015/04/07		
COC Number		508378-01-01	508378-01-01	508378-01-01		508378-01-01		
	Units	WG-160900764-20150408-RD05	WG-160900764-20150408-RD05A	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	60	1	3981051
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	77	1	3981051
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	98	1	3981051
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	93	1	3981051
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	75	1	3981051
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	59	1	3981051
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	95	1	3981051
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	88	1	3981051
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	86	1	3981051
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	78	1	3981051
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	71	1	3981051
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	85	1	3981051
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	78	1	3981051
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	77	1	3981051
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	43 (1)	1	3981051
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	17 (1)	1	3981051
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	10 (1)	1	3981051
Benzo(b,j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	12 (1)	1	3981051
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	10 (1)	1	3981051
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	10 (1)	1	3981051
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	73	1	3981051
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	81	1	3981051
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	72	1	3981051
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	31 (1)	1	3981051
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	12 (1)	1	3981051
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	9 (1)	1	3981051
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	90	1	3981051
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	94	1	3981051
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	50	1	3981051
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	75	1	3981051
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 #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABP947	ABP948	ABQ103		ABQ104		
Sampling Date		2015/04/08 13:11	2015/04/08 13:11	2015/04/07		2015/04/07		
COC Number		508378-01-01	508378-01-01	508378-01-01		508378-01-01		
	Units	WG-160900764-20150408-RD05	WG-160900764-20150408-RD05A	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	0.1	9 (1)	1	3981051
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	76	1	3981051
p-Chloroaniline	ug/L	<1	<1	<1	1	72	1	3981051
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	70	1	3981051
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	69	1	3981051
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	31	1	3981051
Pyrene	ug/L	<0.05	<0.05	<0.05	0.05	46 (1)	1	3981051
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	0.28	150	1.4	3974864
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	67	68	60		89		3981051
2-Fluorobiphenyl	%	55	70	68		67		3981051
D14-Terphenyl (FS)	%	81	21 (1)	19 (1)		21 (1)		3981051
D5-Nitrobenzene	%	74	76	71		75		3981051
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 #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ABP939	ABP941	ABP943	ABP945	ABP947		
Sampling Date		2015/04/07 13:34	2015/04/08 10:20	2015/04/08 10:08	2015/04/08 13:50	2015/04/08 13:11		
COC Number		508378-01-01	508378-01-01	508378-01-01	508378-01-01	508378-01-01		
	Units	WG-160900764 -20150407-RD01	WG-160900764 -20150408-RD02	WG-160900764 -20150408-RD03	WG-160900764 -20150408-RD04	WG-160900764 -20150408-RD05	RDL	QC Batch

Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3975452
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	10	3976812
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	3976812
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
Chloroform	ug/L	0.71	<0.20	<0.20	<0.20	<0.20	0.20	3976812
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	3976812
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	3976812
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	3976812
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	3976812
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	3976812
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	3976812
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	<10	10	3976812
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ABP939	ABP941	ABP943	ABP945	ABP947		
Sampling Date		2015/04/07 13:34	2015/04/08 10:20	2015/04/08 10:08	2015/04/08 13:50	2015/04/08 13:11		
COC Number		508378-01-01	508378-01-01	508378-01-01	508378-01-01	508378-01-01		
	Units	WG-160900764 -20150407-RD01	WG-160900764 -20150408-RD02	WG-160900764 -20150408-RD03	WG-160900764 -20150408-RD04	WG-160900764 -20150408-RD05	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3976812
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3976812
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	91	91	91	91	91		3976812
D4-1,2-Dichloroethane	%	105	103	106	103	106		3976812
D8-Toluene	%	90	91	89	92	89		3976812
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABP939
Sample ID: WG-160900764-20150407-RD01
Matrix: Water

Collected: 2015/04/07
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/16	Milijana Avramovic
Acidity as CaCO3 in liquid		3976824	2015/04/09	2015/04/20	Grace Sison
Alkalinity	AT	3976675	N/A	2015/04/09	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	3974710	N/A	2015/04/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	3975452	N/A	2015/04/13	Automated Statchk
Chloride by Automated Colourimetry	KONE	3977278	N/A	2015/04/10	Deonarine Ramnarine
Conductivity	AT	3976633	N/A	2015/04/09	Yogesh Patel
Chromium (VI) in Water	IC	3976732	N/A	2015/04/09	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3977020	N/A	2015/04/10	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3977046	N/A	2015/04/10	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3980454	N/A	2015/04/14	Yang Yu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3982128	2015/04/14	2015/04/15	Jolanta Kawzowicz
Fluoride	ISE	3976613	2015/04/09	2015/04/09	Yogesh Patel
Hardness (calculated as CaCO3)		3974533	N/A	2015/04/13	Automated Statchk
Mercury in Water by CVAA	CV/AA	3980040	2015/04/13	2015/04/14	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3977801	N/A	2015/04/10	Arefa Dabhad
Ion Balance (% Difference)	CALC	3974713	N/A	2015/04/13	Automated Statchk
Anion and Cation Sum	CALC	3974714	N/A	2015/04/13	Automated Statchk
Total Ammonia-N	LACH/NH4	3977882	N/A	2015/04/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3976397	N/A	2015/04/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3976592	2015/04/09	2015/04/10	Li Peng
pH	AT	3976678	N/A	2015/04/09	Yogesh Patel
Orthophosphate	KONE	3977280	N/A	2015/04/10	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3974707	N/A	2015/04/13	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3974708	N/A	2015/04/13	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3977281	N/A	2015/04/10	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	3974709	N/A	2015/04/13	Automated Statchk
Total Dissolved Solids	BAL	3977639	N/A	2015/04/11	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	3976862	N/A	2015/04/10	Elsamma Alex
Total Suspended Solids	BAL	3977634	N/A	2015/04/10	Bansari Ray
Turbidity	AT	3976570	N/A	2015/04/09	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3976812	N/A	2015/04/10	Karen Hughes

Maxxam ID: ABP939 Dup
Sample ID: WG-160900764-20150407-RD01
Matrix: Water

Collected: 2015/04/07
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3980454	N/A	2015/04/14	Yang Yu

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABP940
Sample ID: WG-160900764-20150407-RD01A
Matrix: Water

Collected: 2015/04/07
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/16	Milijana Avramovic

Maxxam ID: ABP941
Sample ID: WG-160900764-20150408-RD02
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/16	Milijana Avramovic
Acidity as CaCO3 in liquid		3976824	2015/04/09	2015/04/20	Grace Sison
Alkalinity	AT	3976675	N/A	2015/04/09	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	3974710	N/A	2015/04/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	3975452	N/A	2015/04/13	Automated Statchk
Chloride by Automated Colourimetry	KONE	3977278	N/A	2015/04/10	Deonarine Ramnarine
Conductivity	AT	3976633	N/A	2015/04/09	Yogesh Patel
Chromium (VI) in Water	IC	3976732	N/A	2015/04/09	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3977020	N/A	2015/04/10	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3977046	N/A	2015/04/10	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3980454	N/A	2015/04/14	Yang Yu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3982128	2015/04/14	2015/04/15	Jolanta Kawzowicz
Fluoride	ISE	3976613	2015/04/09	2015/04/09	Yogesh Patel
Hardness (calculated as CaCO3)		3974533	N/A	2015/04/13	Automated Statchk
Mercury in Water by CVAA	CV/AA	3980040	2015/04/13	2015/04/14	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3977801	N/A	2015/04/10	Arefa Dabhad
Ion Balance (% Difference)	CALC	3974713	N/A	2015/04/13	Automated Statchk
Anion and Cation Sum	CALC	3974714	N/A	2015/04/13	Automated Statchk
Total Ammonia-N	LACH/NH4	3977882	N/A	2015/04/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3976821	N/A	2015/04/15	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3976592	2015/04/09	2015/04/10	Li Peng
pH	AT	3976678	N/A	2015/04/09	Yogesh Patel
Orthophosphate	KONE	3977280	N/A	2015/04/10	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3974707	N/A	2015/04/13	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3974708	N/A	2015/04/13	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3977281	N/A	2015/04/10	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	3974709	N/A	2015/04/13	Automated Statchk
Total Dissolved Solids	BAL	3977639	N/A	2015/04/11	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	3976862	N/A	2015/04/10	Elsamma Alex
Total Suspended Solids	BAL	3977634	N/A	2015/04/10	Bansari Ray
Turbidity	AT	3976570	N/A	2015/04/09	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3976812	N/A	2015/04/10	Karen Hughes

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABP941 Dup
Sample ID: WG-160900764-20150408-RD02
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3982128	2015/04/14	2015/04/15	Jolanta Kawzowicz
Mercury in Water by CVAA	CV/AA	3980040	2015/04/13	2015/04/14	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3977801	N/A	2015/04/10	Arefa Dabhad

Maxxam ID: ABP942
Sample ID: WG-160900764-20150408-RD02A
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/16	Milijana Avramovic

Maxxam ID: ABP943
Sample ID: WG-160900764-20150408-RD03
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/16	Milijana Avramovic
Acidity as CaCO3 in liquid		3976824	2015/04/09	2015/04/20	Grace Sison
Alkalinity	AT	3976675	N/A	2015/04/09	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	3974710	N/A	2015/04/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	3975452	N/A	2015/04/13	Automated Statchk
Chloride by Automated Colourimetry	KONE	3977278	N/A	2015/04/10	Deonarine Ramnarine
Conductivity	AT	3976633	N/A	2015/04/09	Yogesh Patel
Chromium (VI) in Water	IC	3976732	N/A	2015/04/09	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3977020	N/A	2015/04/10	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3977046	N/A	2015/04/10	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3980454	N/A	2015/04/14	Yang Yu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3982128	2015/04/14	2015/04/15	Jolanta Kawzowicz
Fluoride	ISE	3976613	2015/04/09	2015/04/09	Yogesh Patel
Hardness (calculated as CaCO3)		3974533	N/A	2015/04/13	Automated Statchk
Mercury in Water by CVAA	CV/AA	3981150	2015/04/14	2015/04/14	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3977801	N/A	2015/04/10	Arefa Dabhad
Ion Balance (% Difference)	CALC	3974713	N/A	2015/04/13	Automated Statchk
Anion and Cation Sum	CALC	3974714	N/A	2015/04/13	Automated Statchk
Total Ammonia-N	LACH/NH4	3977882	N/A	2015/04/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3976397	N/A	2015/04/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3976592	2015/04/09	2015/04/10	Li Peng
pH	AT	3976678	N/A	2015/04/09	Yogesh Patel
Orthophosphate	KONE	3977280	N/A	2015/04/10	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3974707	N/A	2015/04/13	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3974708	N/A	2015/04/13	Automated Statchk

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABP943
Sample ID: WG-160900764-20150408-RD03
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sulphate by Automated Colourimetry	KONE	3977281	N/A	2015/04/10	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	3974709	N/A	2015/04/13	Automated Statchk
Total Dissolved Solids	BAL	3977639	N/A	2015/04/11	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	3976862	N/A	2015/04/10	Elsamma Alex
Total Suspended Solids	BAL	3977634	N/A	2015/04/10	Bansari Ray
Turbidity	AT	3976570	N/A	2015/04/09	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3976812	N/A	2015/04/10	Karen Hughes

Maxxam ID: ABP943 Dup
Sample ID: WG-160900764-20150408-RD03
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	3976675	N/A	2015/04/09	Yogesh Patel
Chloride by Automated Colourimetry	KONE	3977278	N/A	2015/04/10	Deonarine Ramnarine
Conductivity	AT	3976633	N/A	2015/04/09	Yogesh Patel
Fluoride	ISE	3976613	2015/04/09	2015/04/09	Yogesh Patel
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3976397	N/A	2015/04/13	Chandra Nandlal
pH	AT	3976678	N/A	2015/04/09	Yogesh Patel
Orthophosphate	KONE	3977280	N/A	2015/04/10	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	3977281	N/A	2015/04/10	Deonarine Ramnarine
Turbidity	AT	3976570	N/A	2015/04/09	Lemeneh Addis

Maxxam ID: ABP944
Sample ID: WG-160900764-20150408-RD03A
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/16	Milijana Avramovic

Maxxam ID: ABP945
Sample ID: WG-160900764-20150408-RD04
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/16	Milijana Avramovic
Acidity as CaCO3 in liquid		3976824	2015/04/09	2015/04/20	Grace Sison
Alkalinity	AT	3976675	N/A	2015/04/09	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	3974710	N/A	2015/04/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	3975452	N/A	2015/04/13	Automated Statchk
Chloride by Automated Colourimetry	KONE	3977278	N/A	2015/04/10	Deonarine Ramnarine
Conductivity	AT	3976633	N/A	2015/04/09	Yogesh Patel

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABP945
Sample ID: WG-160900764-20150408-RD04
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	3976732	N/A	2015/04/09	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3977020	N/A	2015/04/10	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3977046	N/A	2015/04/10	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3980454	N/A	2015/04/14	Yang Yu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3982128	2015/04/14	2015/04/15	Jolanta Kawzowicz
Fluoride	ISE	3976613	2015/04/09	2015/04/09	Yogesh Patel
Hardness (calculated as CaCO3)		3974533	N/A	2015/04/13	Automated Statchk
Mercury in Water by CVAA	CV/AA	3981150	2015/04/14	2015/04/14	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3977801	N/A	2015/04/10	Arefa Dabhad
Ion Balance (% Difference)	CALC	3974713	N/A	2015/04/13	Automated Statchk
Anion and Cation Sum	CALC	3974714	N/A	2015/04/13	Automated Statchk
Total Ammonia-N	LACH/NH4	3977882	N/A	2015/04/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3976821	N/A	2015/04/15	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3976592	2015/04/09	2015/04/10	Li Peng
pH	AT	3976678	N/A	2015/04/09	Yogesh Patel
Orthophosphate	KONE	3977280	N/A	2015/04/10	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3974707	N/A	2015/04/13	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3974708	N/A	2015/04/13	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3977281	N/A	2015/04/10	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	3974709	N/A	2015/04/13	Automated Statchk
Total Dissolved Solids	BAL	3977639	N/A	2015/04/11	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	3976862	N/A	2015/04/10	Elsamma Alex
Total Suspended Solids	BAL	3977634	N/A	2015/04/10	Bansari Ray
Turbidity	AT	3976570	N/A	2015/04/09	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3976812	N/A	2015/04/10	Karen Hughes

Maxxam ID: ABP945 Dup
Sample ID: WG-160900764-20150408-RD04
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	3977882	N/A	2015/04/15	Charles Opoku-Ware

Maxxam ID: ABP946
Sample ID: WG-160900764-20150408-RD04A
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/16	Milijana Avramovic

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABP947
Sample ID: WG-160900764-20150408-RD05
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/16	Milijana Avramovic
Acidity as CaCO3 in liquid		3976824	2015/04/09	2015/04/20	Grace Sison
Alkalinity	AT	3976675	N/A	2015/04/09	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	3974710	N/A	2015/04/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	3975452	N/A	2015/04/13	Automated Statchk
Chloride by Automated Colourimetry	KONE	3977278	N/A	2015/04/10	Deonarine Ramnarine
Conductivity	AT	3976633	N/A	2015/04/09	Yogesh Patel
Chromium (VI) in Water	IC	3976732	N/A	2015/04/09	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3977020	N/A	2015/04/10	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3977046	N/A	2015/04/10	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3980454	N/A	2015/04/14	Yang Yu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3982128	2015/04/14	2015/04/15	Jolanta Kawzowicz
Fluoride	ISE	3976613	2015/04/09	2015/04/09	Yogesh Patel
Hardness (calculated as CaCO3)		3974533	N/A	2015/04/13	Automated Statchk
Mercury in Water by CVAA	CV/AA	3980040	2015/04/13	2015/04/14	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3977801	N/A	2015/04/10	Arefa Dabhad
Ion Balance (% Difference)	CALC	3974713	N/A	2015/04/13	Automated Statchk
Anion and Cation Sum	CALC	3974714	N/A	2015/04/13	Automated Statchk
Total Ammonia-N	LACH/NH4	3977882	N/A	2015/04/15	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3976821	N/A	2015/04/15	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3976592	2015/04/09	2015/04/10	Li Peng
pH	AT	3976678	N/A	2015/04/09	Yogesh Patel
Orthophosphate	KONE	3977280	N/A	2015/04/10	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3974707	N/A	2015/04/13	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3974708	N/A	2015/04/13	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3977281	N/A	2015/04/10	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	3974709	N/A	2015/04/13	Automated Statchk
Total Dissolved Solids	BAL	3977639	N/A	2015/04/11	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	3976862	N/A	2015/04/10	Elsamma Alex
Total Suspended Solids	BAL	3977634	N/A	2015/04/10	Bansari Ray
Turbidity	AT	3976570	N/A	2015/04/09	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3976812	N/A	2015/04/10	Karen Hughes

Maxxam ID: ABP947 Dup
Sample ID: WG-160900764-20150408-RD05
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity as CaCO3 in liquid		3976824	2015/04/09	2015/04/20	Grace Sison

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABP948
Sample ID: WG-160900764-20150408-RD05A
Matrix: Water

Collected: 2015/04/08
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/16	Milijana Avramovic

Maxxam ID: ABQ103
Sample ID: FILTERED BLANK
Matrix: Water

Collected: 2015/04/07
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/15	Milijana Avramovic

Maxxam ID: ABQ104
Sample ID: FILTERED SPIKE
Matrix: Water

Collected: 2015/04/07
Shipped:
Received: 2015/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3974864	N/A	2015/04/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3981051	2015/04/14	2015/04/15	Milijana Avramovic

Maxxam Job #: B561683
Report Date: 2015/04/21

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

GENERAL COMMENTS

Sample ABQ104-01 : ABN analysis:Data are reported as percentage recoveries.

Results relate only to the items tested.

Maxxam Job #: B561683
Report Date: 2015/04/21

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3976592	Decachlorobiphenyl	2015/04/10	89	60 - 130	94	60 - 130	92	%				
3976812	4-Bromofluorobenzene	2015/04/10	100	70 - 130	102	70 - 130	96	%				
3976812	D4-1,2-Dichloroethane	2015/04/10	102	70 - 130	100	70 - 130	102	%				
3976812	D8-Toluene	2015/04/10	105	70 - 130	104	70 - 130	93	%				
3980454	1,4-Difluorobenzene	2015/04/14	100	70 - 130	97	70 - 130	101	%				
3980454	4-Bromofluorobenzene	2015/04/14	106	70 - 130	104	70 - 130	102	%				
3980454	D10-Ethylbenzene	2015/04/14	93	70 - 130	95	70 - 130	90	%				
3980454	D4-1,2-Dichloroethane	2015/04/14	91	70 - 130	93	70 - 130	105	%				
3981051	2,4,6-Tribromophenol	2015/04/15	89	50 - 130	88	50 - 130	59	%				
3981051	2-Fluorobiphenyl	2015/04/15	75	50 - 130	66	50 - 130	61	%				
3981051	D14-Terphenyl (FS)	2015/04/15	81	50 - 130	79	50 - 130	81	%				
3981051	D5-Nitrobenzene	2015/04/15	82	50 - 130	75	50 - 130	63	%				
3982128	o-Terphenyl	2015/04/14	95	60 - 130	94	60 - 130	92	%				
3976397	Nitrate (N)	2015/04/13	NC	80 - 120	104	80 - 120	<0.10	mg/L	0.69	25		
3976397	Nitrite (N)	2015/04/13	106	80 - 120	103	80 - 120	<0.010	mg/L	NC	25		
3976570	Turbidity	2015/04/09			99	85 - 115	<0.2	NTU	8.5	20		
3976592	Aroclor 1242	2015/04/10					<0.05	ug/L	NC	30		
3976592	Aroclor 1248	2015/04/10					<0.05	ug/L	NC	30		
3976592	Aroclor 1254	2015/04/10					<0.05	ug/L	NC	30		
3976592	Aroclor 1260	2015/04/10	76	60 - 130	71	60 - 130	<0.05	ug/L	NC	30		
3976592	Total PCB	2015/04/10	76	60 - 130	71	60 - 130	<0.05	ug/L	NC	40		
3976613	Fluoride (F-)	2015/04/09	106	80 - 120	102	80 - 120	<0.10	mg/L	NC	20		
3976633	Conductivity	2015/04/09			101	85 - 115	<1.0	umho/cm	0.28	25		
3976675	Alkalinity (Total as CaCO3)	2015/04/09			96	85 - 115	<1.0	mg/L	0.96	25		
3976678	pH	2015/04/09			102	98 - 103			0.40	N/A		
3976732	Chromium (VI)	2015/04/09	100	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
3976812	1,1,1,2-Tetrachloroethane	2015/04/10	105	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
3976812	1,1,1-Trichloroethane	2015/04/10	100	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
3976812	1,1,2,2-Tetrachloroethane	2015/04/10	106	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3976812	1,1,2-Trichloroethane	2015/04/10	102	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3976812	1,1-Dichloroethane	2015/04/10	107	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
3976812	1,1-Dichloroethylene	2015/04/10	112	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
3976812	1,2-Dichlorobenzene	2015/04/10	104	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
3976812	1,2-Dichloroethane	2015/04/10	102	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
3976812	1,2-Dichloropropane	2015/04/10	101	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
3976812	1,3-Dichlorobenzene	2015/04/10	99	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
3976812	1,4-Dichlorobenzene	2015/04/10	100	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
3976812	Acetone (2-Propanone)	2015/04/10	101	60 - 140	109	60 - 140	<10	ug/L	NC	30		
3976812	Benzene	2015/04/10	102	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
3976812	Bromodichloromethane	2015/04/10	100	70 - 130	94	70 - 130	<0.50	ug/L	NC	30		
3976812	Bromoform	2015/04/10	100	70 - 130	96	70 - 130	<1.0	ug/L	NC	30		
3976812	Bromomethane	2015/04/10	99	60 - 140	95	60 - 140	<0.50	ug/L	NC	30		
3976812	Carbon Tetrachloride	2015/04/10	105	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
3976812	Chlorobenzene	2015/04/10	102	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
3976812	Chloroform	2015/04/10	106	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
3976812	cis-1,2-Dichloroethylene	2015/04/10	103	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
3976812	cis-1,3-Dichloropropene	2015/04/10	79	70 - 130	86	70 - 130	<0.30	ug/L	NC	30		
3976812	Dibromochloromethane	2015/04/10	103	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
3976812	Dichlorodifluoromethane (FREON 12)	2015/04/10	98	60 - 140	88	60 - 140	<1.0	ug/L	NC	30		
3976812	Ethylbenzene	2015/04/10	94	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
3976812	Ethylene Dibromide	2015/04/10	101	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
3976812	Hexane	2015/04/10	106	70 - 130	98	70 - 130	<1.0	ug/L	NC	30		
3976812	Methyl Ethyl Ketone (2-Butanone)	2015/04/10	92	60 - 140	101	60 - 140	<10	ug/L	NC	30		
3976812	Methyl Isobutyl Ketone	2015/04/10	76	70 - 130	85	70 - 130	<5.0	ug/L	NC	30		
3976812	Methyl t-butyl ether (MTBE)	2015/04/10	88	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
3976812	Methylene Chloride(Dichloromethane)	2015/04/10	118	70 - 130	108	70 - 130	<2.0	ug/L	NC	30		
3976812	o-Xylene	2015/04/10	89	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
3976812	p+m-Xylene	2015/04/10	95	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
3976812	Styrene	2015/04/10	76	70 - 130	78	70 - 130	<0.50	ug/L	NC	30		
3976812	Tetrachloroethylene	2015/04/10	113	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
3976812	Toluene	2015/04/10	100	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3976812	Total Xylenes	2015/04/10					<0.20	ug/L	NC	30		
3976812	trans-1,2-Dichloroethylene	2015/04/10	108	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
3976812	trans-1,3-Dichloropropene	2015/04/10	79	70 - 130	86	70 - 130	<0.40	ug/L	NC	30		
3976812	Trichloroethylene	2015/04/10	104	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
3976812	Trichlorofluoromethane (FREON 11)	2015/04/10	103	70 - 130	94	70 - 130	<0.50	ug/L	NC	30		
3976812	Vinyl Chloride	2015/04/10	105	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
3976821	Nitrate (N)	2015/04/15	NC	80 - 120	100	80 - 120	<0.10	mg/L	NC	25		
3976821	Nitrite (N)	2015/04/15	NC	80 - 120	97	80 - 120	<0.010	mg/L				
3976824	Acidity as CaCO3	2015/04/20					<10	mg/L	NC	25		
3976862	Total Organic Carbon (TOC)	2015/04/10	100	80 - 120	99	80 - 120	<0.20	mg/L	1.0	20		
3977020	Free Cyanide	2015/04/10	106	80 - 120	107	80 - 120	<2	ug/L	NC	20		
3977046	Dissolved Organic Carbon	2015/04/10	98	80 - 120	98	80 - 120	<0.20	mg/L	0.52	20		
3977278	Dissolved Chloride (Cl)	2015/04/10	NC	80 - 120	104	80 - 120	<1	mg/L	0.43	20		
3977280	Orthophosphate (P)	2015/04/10	95	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
3977281	Dissolved Sulphate (SO4)	2015/04/10	NC	75 - 125	102	80 - 120	<1	mg/L	0.070	20		
3977634	Total Suspended Solids	2015/04/10					<10	mg/L	NC	25	96	85 - 115
3977639	Total Dissolved Solids	2015/04/11					<10	mg/L	8.1	25	97	90 - 110
3977801	Dissolved Aluminum (Al)	2015/04/10	106	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20		
3977801	Dissolved Antimony (Sb)	2015/04/10	111	80 - 120	104	80 - 120	<0.00050	mg/L	NC	20		
3977801	Dissolved Arsenic (As)	2015/04/10	106	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
3977801	Dissolved Barium (Ba)	2015/04/10	100	80 - 120	100	80 - 120	<0.0020	mg/L	5.0	20		
3977801	Dissolved Beryllium (Be)	2015/04/10	103	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
3977801	Dissolved Boron (B)	2015/04/10	NC	80 - 120	102	80 - 120	<0.010	mg/L	1.0	20		
3977801	Dissolved Cadmium (Cd)	2015/04/10	109	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20		
3977801	Dissolved Calcium (Ca)	2015/04/10	NC	80 - 120	102	80 - 120	<0.20	mg/L	1.3	20		
3977801	Dissolved Chromium (Cr)	2015/04/10	102	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
3977801	Dissolved Cobalt (Co)	2015/04/10	101	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
3977801	Dissolved Copper (Cu)	2015/04/10	105	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
3977801	Dissolved Iron (Fe)	2015/04/10	105	80 - 120	102	80 - 120	<0.10	mg/L	NC	20		
3977801	Dissolved Lead (Pb)	2015/04/10	102	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
3977801	Dissolved Magnesium (Mg)	2015/04/10	NC	80 - 120	103	80 - 120	<0.050	mg/L	0.85	20		

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Stantec Consulting Ltd - Clarington
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Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3977801	Dissolved Manganese (Mn)	2015/04/10	101	80 - 120	100	80 - 120	<0.0020	mg/L	0.70	20		
3977801	Dissolved Molybdenum (Mo)	2015/04/10	111	80 - 120	102	80 - 120	<0.00050	mg/L	4.3	20		
3977801	Dissolved Nickel (Ni)	2015/04/10	101	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
3977801	Dissolved Phosphorus (P)	2015/04/10	105	80 - 120	110	80 - 120	<0.10	mg/L	NC	20		
3977801	Dissolved Potassium (K)	2015/04/10	104	80 - 120	103	80 - 120	<0.20	mg/L	1.1	20		
3977801	Dissolved Selenium (Se)	2015/04/10	106	80 - 120	104	80 - 120	<0.0020	mg/L	NC	20		
3977801	Dissolved Silicon (Si)	2015/04/10	106	80 - 120	104	80 - 120	<0.050	mg/L	1.1	20		
3977801	Dissolved Silver (Ag)	2015/04/10	96	80 - 120	102	80 - 120	<0.00010	mg/L	NC	20		
3977801	Dissolved Sodium (Na)	2015/04/10	NC	80 - 120	102	80 - 120	<0.10	mg/L	0.018	20		
3977801	Dissolved Strontium (Sr)	2015/04/10	NC	80 - 120	101	80 - 120	<0.0010	mg/L	1.4	20		
3977801	Dissolved Thallium (Tl)	2015/04/10	101	80 - 120	99	80 - 120	<0.000050	mg/L	NC	20		
3977801	Dissolved Titanium (Ti)	2015/04/10	104	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20		
3977801	Dissolved Uranium (U)	2015/04/10	106	80 - 120	101	80 - 120	<0.00010	mg/L	2.5	20		
3977801	Dissolved Vanadium (V)	2015/04/10	104	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
3977801	Dissolved Zinc (Zn)	2015/04/10	102	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20		
3977801	Dissolved Zirconium (Zr)	2015/04/10	111	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20		
3977882	Total Ammonia-N	2015/04/15	95	80 - 120	96	85 - 115	<0.050	mg/L	NC	20		
3980040	Mercury (Hg)	2015/04/14	104	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20		
3980454	F1 (C6-C10) - BTEX	2015/04/14					<25	ug/L	NC	30		
3980454	F1 (C6-C10)	2015/04/14	88	70 - 130	93	70 - 130	<25	ug/L	NC	30		
3981051	1,2,4-Trichlorobenzene	2015/04/16	69	40 - 130	63	40 - 130	<0.1	ug/L	NC	30		
3981051	1-Methylnaphthalene	2015/04/16	89	50 - 130	84	50 - 130	<0.2	ug/L	NC	30		
3981051	2,4,5-Trichlorophenol	2015/04/16	103	50 - 130	98	50 - 130	<0.2	ug/L	NC	30		
3981051	2,4,6-Trichlorophenol	2015/04/16	97	50 - 130	92	50 - 130	<0.2	ug/L	NC	30		
3981051	2,4-Dichlorophenol	2015/04/16	76	50 - 130	73	50 - 130	<0.1	ug/L	NC	30		
3981051	2,4-Dimethylphenol	2015/04/16	55	30 - 130	57	30 - 130	<0.5	ug/L	NC	30		
3981051	2,4-Dinitrophenol	2015/04/16	99	30 - 130	99	30 - 130	<2	ug/L	NC	30		
3981051	2,4-Dinitrotoluene	2015/04/16	92	50 - 130	89	50 - 130	<0.3	ug/L	NC	30		
3981051	2,6-Dinitrotoluene	2015/04/16	91	50 - 130	86	50 - 130	<0.3	ug/L	NC	30		
3981051	2-Chlorophenol	2015/04/16	84	50 - 130	78	50 - 130	<0.1	ug/L	NC	30		
3981051	2-Methylnaphthalene	2015/04/16	82	50 - 130	77	50 - 130	<0.2	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3981051	3,3'-Dichlorobenzidine	2015/04/16	74	30 - 130	90	30 - 130	<0.5	ug/L	NC	30		
3981051	Acenaphthene	2015/04/16	88	50 - 130	84	50 - 130	<0.2	ug/L	NC	30		
3981051	Acenaphthylene	2015/04/16	86	50 - 130	80	50 - 130	<0.2	ug/L	NC	30		
3981051	Anthracene	2015/04/16	88	50 - 130	86	50 - 130	<0.05	ug/L	NC	30		
3981051	Benzo(a)anthracene	2015/04/16	100	50 - 130	98	50 - 130	<0.05	ug/L	NC	30		
3981051	Benzo(a)pyrene	2015/04/16	95	50 - 130	93	50 - 130	<0.01	ug/L	NC	30		
3981051	Benzo(b,j)fluoranthene	2015/04/16	102	50 - 130	100	50 - 130	<0.05	ug/L	NC	30		
3981051	Benzo(g,h,i)perylene	2015/04/16	107	50 - 130	106	50 - 130	<0.05	ug/L	NC	30		
3981051	Benzo(k)fluoranthene	2015/04/16	101	50 - 130	99	50 - 130	<0.05	ug/L	NC	30		
3981051	Biphenyl	2015/04/16	86	50 - 130	80	50 - 130	<0.1	ug/L	NC	30		
3981051	Bis(2-chloroethyl)ether	2015/04/16	87	50 - 130	81	50 - 130	<0.5	ug/L	NC	30		
3981051	Bis(2-chloroisopropyl)ether	2015/04/16	79	50 - 130	74	50 - 130	<0.5	ug/L	NC	30		
3981051	Bis(2-ethylhexyl)phthalate	2015/04/16	100	50 - 130	97	50 - 130	<1	ug/L	NC	30		
3981051	Chrysene	2015/04/16	102	50 - 130	100	50 - 130	<0.05	ug/L	NC	30		
3981051	Dibenz(a,h)anthracene	2015/04/16	105	50 - 130	104	50 - 130	<0.1	ug/L	NC	30		
3981051	Diethyl phthalate	2015/04/16	94	50 - 130	92	50 - 130	<0.1	ug/L	NC	30		
3981051	Dimethyl phthalate	2015/04/16	98	50 - 130	95	50 - 130	<0.1	ug/L	NC	30		
3981051	Fluoranthene	2015/04/16	99	50 - 130	98	50 - 130	<0.2	ug/L	NC	30		
3981051	Fluorene	2015/04/16	89	50 - 130	85	50 - 130	<0.2	ug/L	NC	30		
3981051	Indeno(1,2,3-cd)pyrene	2015/04/16	106	50 - 130	105	50 - 130	<0.1	ug/L	NC	30		
3981051	Naphthalene	2015/04/16	85	50 - 130	79	50 - 130	<0.2	ug/L	NC	30		
3981051	p-Chloroaniline	2015/04/16	53	30 - 130	71	30 - 130	<1	ug/L	NC	30		
3981051	Pentachlorophenol	2015/04/16	69	50 - 130	67	50 - 130	<0.1	ug/L	NC	30		
3981051	Phenanthrene	2015/04/16	90	50 - 130	88	50 - 130	<0.1	ug/L	NC	30		
3981051	Phenol	2015/04/16	34	30 - 130	31	30 - 130	<0.5	ug/L	NC	30		
3981051	Pyrene	2015/04/16	102	50 - 130	100	50 - 130	<0.05	ug/L	NC	30		
3981150	Mercury (Hg)	2015/04/14	100	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20		
3982128	F2 (C10-C16 Hydrocarbons)	2015/04/15	94	50 - 130	94	60 - 130	<100	ug/L	NC	30		
3982128	F3 (C16-C34 Hydrocarbons)	2015/04/15	92	50 - 130	93	60 - 130	<200	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3982128	F4 (C34-C50 Hydrocarbons)	2015/04/15	99	50 - 130	96	60 - 130	<200	ug/L	NC	30		

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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Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELL
Your P.O. #: 16400NR
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).





Brad Newman, Scientific Specialist



Cristina Carriere, Scientific Services



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.

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: _____
 Contact Name: _____
 Address: _____
 Phone: _____ Fax: _____
 Email: **AS PER REQUEST**

PROJECT INFORMATION:

Quotation #: B48218
 Task #: _____
 Project #: 160900764
 Profit Centre: MAF
 Site #: CLARINGTON TS-MONITORING W
 Sampled By: *Ryan Dora*

Krystal Seedial
 B561683
 ENV-753
 C#508378-01-01

Only:

Bottle Order #: _____
 Project Manager: _____
 Krystal Seedial

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)?

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle): **MBAs (MS Cr-V)**

Acidity, CVI, Cyanide, Fluoride, Mercury
 TDS, TOC, TSS, Turbidity
 O Reg 153 Petroleum Hydrocarbons (Water)
 O Reg 153 PCBs (Water)
 O Reg 153 Volatile Organics (Water)
 RCAs - Comprehensive (lead filtered metals)
 SVOCs
 Lab Filtered SVOCs

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)	Acidity, CVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	O Reg 153 Petroleum Hydrocarbons (Water)	O Reg 153 PCBs (Water)	O Reg 153 Volatile Organics (Water)	RCAs - Comprehensive (lead filtered metals)	SVOCs	Lab Filtered SVOCs	# of Bottles	Comments
1	WG-160900764-201504 07-RD01	Apr 7/15	13:34	GW	Y	X	X	X	X	X	X	X	X	2	
2	WG-160900764-201504 07-RD01A	Apr 7/15	13:34		Y								X	2	
3	WG-160900764-201504 08-RD02	Apr 8/15	10:20		Y	X	X	X	X	X	X	X		2	
4	WG-160900764-201504 08-RD02A	Apr 8/15	10:20		Y								X	2	
5	WG-160900764-201504 08-RD03		10:08		Y	X	X	X	X	X	X	X		2	
6	WG-160900764-201504 08-RD03A		10:08		Y								X	2	
7	WG-160900764-201504 08-RD04		13:50		Y	X	X	X	X	X	X	X		2	
8	WG-160900764-201504 08-RD04A		13:50		Y								X	2	
9	WG-160900764-201504 08-RD05		13:11		Y	X	X	X	X	X	X	X		2	
10	WG-160900764-201504 08-RD05A		13:11		Y								X	2	

* RELINQUISHED BY: (Signature/Print) <i>Ryan Dora</i>	Date: (YY/MM/DD) 15/04/08	Time 14:00	RECEIVED BY: (Signature/Print) <i>FANA WANG</i>	Date: (YY/MM/DD) 2015/04/08	Time 16:43	# jars used and not submitted	Laboratory Use Only				
							Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
								2/2/3, 2/2/1	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

Attention: Lesley Veale, Brant Gill,

Stantec Consulting Ltd - Clarington
ON
Canada

Your P.O. #: 16400NR
Your Project #: 160900764
Site#: GW MONITORING WELLS
Site Location: CLARINGTON TS-MONITORING WELLS
Your C.O.C. #: 508378-02-01

Report Date: 2015/04/23
Report #: R3399291
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B562741

Received: 2015/04/09, 18:10

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date		Laboratory Method	Reference
		Extracted	Analyzed		
Methylnaphthalene Sum	7	N/A	2015/04/21	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	8	2015/04/21	2015/04/22	CAM SOP-00301	EPA 8270 m
Acidity as CaCO ₃ in liquid (1, 2)	3	2015/04/13	2015/04/20	SLA SOP-00100	APHA SM2310B (Mod)
Alkalinity	3	N/A	2015/04/17	CAM SOP-00448	SM 22 2320 B m
Carbonate, Bicarbonate and Hydroxide	3	N/A	2015/04/13	CAM SOP-00102	APHA 4500-CO ₂ D
1,3-Dichloropropene Sum	3	N/A	2015/04/14	CAM SOP-00226	EPA 8260C m
Chloride by Automated Colourimetry	2	N/A	2015/04/15	CAM SOP-00463	EPA 325.2 m
Chloride by Automated Colourimetry	1	N/A	2015/04/23	CAM SOP-00463	EPA 325.2 m
Conductivity	3	N/A	2015/04/17	CAM SOP-00414	SM 22 2510 m
Chromium (VI) in Water	3	N/A	2015/04/13	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	3	N/A	2015/04/16	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (3)	3	N/A	2015/04/10	CAM SOP-00446	SM 22 5310 B m
Petroleum Hydro. CCME F1 & BTEX in Water	3	N/A	2015/04/13	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water	3	2015/04/15	2015/04/16	CAM SOP-00316	CCME PHC-CWS m
Fluoride	3	2015/04/10	2015/04/11	CAM SOP-00449	SM 22 4500-F C m
Hardness (calculated as CaCO ₃)	3	N/A	2015/04/14	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	3	2015/04/16	2015/04/16	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	3	N/A	2015/04/14	CAM SOP-00447	EPA 6020A m
Ion Balance (% Difference)	1	N/A	2015/04/15		
Ion Balance (% Difference)	2	N/A	2015/04/16		
Anion and Cation Sum	3	N/A	2015/04/14		
Total Ammonia-N	3	N/A	2015/04/14	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO ₃) and Nitrite (NO ₂) in Water (4)	3	N/A	2015/04/16	CAM SOP-00440	SM 22 4500-NO ₃ /NO ₂ B
Polychlorinated Biphenyl in Water	3	2015/04/11	2015/04/11	CAM SOP-00309	EPA 8082A m
pH	3	N/A	2015/04/11	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	3	N/A	2015/04/13	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	1	N/A	2015/04/15		
Sat. pH and Langelier Index (@ 20C)	2	N/A	2015/04/16		
Sat. pH and Langelier Index (@ 4C)	1	N/A	2015/04/15		
Sat. pH and Langelier Index (@ 4C)	2	N/A	2015/04/16		

Your P.O. #: 16400NR
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Attention: Lesley Veale, Brant Gill,

Stantec Consulting Ltd - Clarington
 ON
 Canada

Report Date: 2015/04/23
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 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B562741

Received: 2015/04/09, 18:10

Sample Matrix: Water
 # Samples Received: 8

Analyses	Date		Laboratory Method	Reference
	Quantity	Date Analyzed		
Sulphate by Automated Colourimetry	2	N/A	2015/04/13 CAM SOP-00464	EPA 375.4 m
Sulphate by Automated Colourimetry	1	N/A	2015/04/23 CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	1	N/A	2015/04/15	
Total Dissolved Solids (TDS calc)	2	N/A	2015/04/16	
Total Dissolved Solids	3	N/A	2015/04/13 CAM SOP-00428	SM 22 2540C m
Total Organic Carbon (TOC) (5)	3	N/A	2015/04/13 CAM SOP-00446	SM 22 5310B m
Total Suspended Solids	3	N/A	2015/04/11 CAM SOP-00428	SM 22 2540D m
Turbidity	3	N/A	2015/04/11 CAM SOP-00417	SM 22 2130 B m
Volatile Organic Compounds in Water	3	N/A	2015/04/13 CAM SOP 00228	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.

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 the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (5) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Attention: Lesley Veale, Brant Gill,

Stantec Consulting Ltd - Clarington
ON
Canada

Your P.O. #: 16400NR
Your Project #: 160900764
Site#: GW MONITORING WELLS
Site Location: CLARINGTON TS-MONITORING WELLS
Your C.O.C. #: 508378-02-01

Report Date: 2015/04/23
Report #: R3399291
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B562741
Received: 2015/04/09, 18:10

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Krystal Seedial, Project Manager

Email: KSeedial@maxxam.ca

Phone# (905) 817-5700

=====
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 #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABU945	ABU945		ABU947		ABU947	
Sampling Date		2015/04/09 10:55	2015/04/09 10:55		2015/04/09 10:55		2015/04/09 10:55	
COC Number		508378-02-01	508378-02-01		508378-02-01		508378-02-01	
	Units	WG-160900764 -20150409-RD06	WG-160900764 -20150409-RD06 Lab-Dup	QC Batch	WG-160900764 -20150409-RD07	RDL	WG-160900764 -20150409-RD07 Lab-Dup	QC Batch

Calculated Parameters								
Anion Sum	me/L	6.13		3978021	6.58	N/A		3978021
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	230		3978019	250	1.0		3978019
Calculated TDS	mg/L	340		3978024	360	1.0		3978024
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.5		3978019	1.6	1.0		3978019
Cation Sum	me/L	5.73		3978021	5.75	N/A		3978021
Hardness (CaCO3)	mg/L	280		3977795	280	1.0		3977795
Ion Balance (% Difference)	%	3.41		3978020	6.72	N/A		3978020
Langelier Index (@ 20C)	N/A	0.743		3978022	0.769			3978022
Langelier Index (@ 4C)	N/A	0.495		3978023	0.520			3978023
Saturation pH (@ 20C)	N/A	7.11		3978022	7.06			3978022
Saturation pH (@ 4C)	N/A	7.36		3978023	7.31			3978023

Inorganics								
Total Ammonia-N	mg/L	<0.050		3979957	0.051	0.050		3979957
Conductivity	umho/cm	560	560	3986383	540	1.0		3986383
Dissolved Organic Carbon	mg/L	1.1		3978240	1.1	0.20		3978240
Orthophosphate (P)	mg/L	<0.010		3979256	<0.010	0.010		3979256
pH	pH	7.85		3978305	7.83	N/A	7.84	3978305
Dissolved Sulphate (SO4)	mg/L	23		3979255	25	1		3979255
Alkalinity (Total as CaCO3)	mg/L	230	230	3986382	250	1.0		3986382
Dissolved Chloride (Cl)	mg/L	8		3979254	7	1		3979254
Nitrite (N)	mg/L	<0.010		3978948	0.020	0.010		3978338
Nitrate (N)	mg/L	12.6		3978948	12.3	0.50		3978338
Nitrate + Nitrite	mg/L	12.6		3978948	12.3	0.50		3978338

Metals								
Dissolved Aluminum (Al)	mg/L	<0.0050		3981290	<0.0050	0.0050		3981290
Dissolved Antimony (Sb)	mg/L	<0.00050		3981290	<0.00050	0.00050		3981290
Dissolved Arsenic (As)	mg/L	<0.0010		3981290	<0.0010	0.0010		3981290
Dissolved Barium (Ba)	mg/L	0.045		3981290	0.047	0.0020		3981290
Dissolved Beryllium (Be)	mg/L	<0.00050		3981290	<0.00050	0.00050		3981290
Dissolved Boron (B)	mg/L	<0.010		3981290	<0.010	0.010		3981290

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

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABU945	ABU945		ABU947		ABU947	
Sampling Date		2015/04/09 10:55	2015/04/09 10:55		2015/04/09 10:55		2015/04/09 10:55	
COC Number		508378-02-01	508378-02-01		508378-02-01		508378-02-01	
	Units	WG-160900764 -20150409-RD06	WG-160900764 -20150409-RD06 Lab-Dup	QC Batch	WG-160900764 -20150409-RD07	RDL	WG-160900764 -20150409-RD07 Lab-Dup	QC Batch
Dissolved Cadmium (Cd)	mg/L	<0.00010		3981290	<0.00010	0.00010		3981290
Dissolved Calcium (Ca)	mg/L	92		3981290	93	0.20		3981290
Dissolved Chromium (Cr)	mg/L	<0.0050		3981290	<0.0050	0.0050		3981290
Dissolved Cobalt (Co)	mg/L	<0.00050		3981290	<0.00050	0.00050		3981290
Dissolved Copper (Cu)	mg/L	<0.0010		3981290	<0.0010	0.0010		3981290
Dissolved Iron (Fe)	mg/L	<0.10		3981290	<0.10	0.10		3981290
Dissolved Lead (Pb)	mg/L	<0.00050		3981290	<0.00050	0.00050		3981290
Dissolved Magnesium (Mg)	mg/L	11		3981290	11	0.050		3981290
Dissolved Manganese (Mn)	mg/L	0.0050		3981290	0.0050	0.0020		3981290
Dissolved Molybdenum (Mo)	mg/L	0.00069		3981290	0.00067	0.00050		3981290
Dissolved Nickel (Ni)	mg/L	<0.0010		3981290	<0.0010	0.0010		3981290
Dissolved Phosphorus (P)	mg/L	<0.10		3981290	<0.10	0.10		3981290
Dissolved Potassium (K)	mg/L	1.5		3981290	1.5	0.20		3981290
Dissolved Selenium (Se)	mg/L	<0.0020		3981290	<0.0020	0.0020		3981290
Dissolved Silicon (Si)	mg/L	4.5		3981290	4.6	0.050		3981290
Dissolved Silver (Ag)	mg/L	<0.00010		3981290	<0.00010	0.00010		3981290
Dissolved Sodium (Na)	mg/L	3.3		3981290	3.3	0.10		3981290
Dissolved Strontium (Sr)	mg/L	0.19		3981290	0.19	0.0010		3981290
Dissolved Thallium (Tl)	mg/L	<0.000050		3981290	<0.000050	0.000050		3981290
Dissolved Titanium (Ti)	mg/L	<0.0050		3981290	<0.0050	0.0050		3981290
Dissolved Uranium (U)	mg/L	0.00068		3981290	0.00071	0.00010		3981290
Dissolved Vanadium (V)	mg/L	<0.00050		3981290	<0.00050	0.00050		3981290
Dissolved Zinc (Zn)	mg/L	0.0095		3981290	<0.0050	0.0050		3981290
Dissolved Zirconium (Zr)	mg/L	<0.0010		3981290	<0.0010	0.0010		3981290
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABU949		
Sampling Date		2015/04/09 15:45		
COC Number		508378-02-01		
	Units	WG-160900764 -20150409-RD09	RDL	QC Batch
Calculated Parameters				
Anion Sum	me/L	4.22	N/A	3978021
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	180	1.0	3978019
Calculated TDS	mg/L	200	1.0	3978024
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	2.1	1.0	3978019
Cation Sum	me/L	2.73	N/A	3978021
Hardness (CaCO ₃)	mg/L	25	1.0	3977795
Ion Balance (% Difference)	%	21.6	N/A	3978020
Langelier Index (@ 20C)	N/A	-0.275		3978022
Langelier Index (@ 4C)	N/A	-0.524		3978023
Saturation pH (@ 20C)	N/A	8.38		3978022
Saturation pH (@ 4C)	N/A	8.63		3978023
Inorganics				
Total Ammonia-N	mg/L	<0.050	0.050	3979957
Conductivity	umho/cm	270	1.0	3986383
Dissolved Organic Carbon	mg/L	13	0.20	3978240
Orthophosphate (P)	mg/L	0.010	0.010	3979256
pH	pH	8.10	N/A	3978305
Dissolved Sulphate (SO ₄)	mg/L	24	1	3992839
Alkalinity (Total as CaCO ₃)	mg/L	180	1.0	3986382
Dissolved Chloride (Cl)	mg/L	3	1	3992837
Nitrite (N)	mg/L	<0.010	0.010	3978338
Nitrate (N)	mg/L	<0.10	0.10	3978338
Nitrate + Nitrite	mg/L	<0.10	0.10	3978338
Metals				
Dissolved Aluminum (Al)	mg/L	0.031	0.0050	3981290
Dissolved Antimony (Sb)	mg/L	<0.00050	0.00050	3981290
Dissolved Arsenic (As)	mg/L	0.0012	0.0010	3981290
Dissolved Barium (Ba)	mg/L	0.0072	0.0020	3981290
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	3981290
Dissolved Boron (B)	mg/L	0.21	0.010	3981290
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	3981290
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable				

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABU949		
Sampling Date		2015/04/09 15:45		
COC Number		508378-02-01		
	Units	WG-160900764 -20150409-RD09	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	6.6	0.20	3981290
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	3981290
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	3981290
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	3981290
Dissolved Iron (Fe)	mg/L	<0.10	0.10	3981290
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	3981290
Dissolved Magnesium (Mg)	mg/L	2.0	0.050	3981290
Dissolved Manganese (Mn)	mg/L	0.0071	0.0020	3981290
Dissolved Molybdenum (Mo)	mg/L	0.0078	0.00050	3981290
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	3981290
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	3981290
Dissolved Potassium (K)	mg/L	0.78	0.20	3981290
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	3981290
Dissolved Silicon (Si)	mg/L	3.1	0.050	3981290
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	3981290
Dissolved Sodium (Na)	mg/L	51	0.10	3981290
Dissolved Strontium (Sr)	mg/L	0.088	0.0010	3981290
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	3981290
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	3981290
Dissolved Uranium (U)	mg/L	0.0016	0.00010	3981290
Dissolved Vanadium (V)	mg/L	0.00081	0.00050	3981290
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	3981290
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	3981290
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		ABU945	ABU947	ABU947	ABU949		
Sampling Date		2015/04/09 10:55	2015/04/09 10:55	2015/04/09 10:55	2015/04/09 15:45		
COC Number		508378-02-01	508378-02-01	508378-02-01	508378-02-01		
	Units	WG-160900764 -20150409-RD06	WG-160900764 -20150409-RD07	WG-160900764 -20150409-RD07 Lab-Dup	WG-160900764 -20150409-RD09	RDL	QC Batch
Inorganics							
Acidity as CaCO3	mg/L	<10	13		<10	10	3980375
Total Dissolved Solids	mg/L	338	330		414	10	3978711
Fluoride (F-)	mg/L	<0.10	<0.10	<0.10	1.2	0.10	3978296
Free Cyanide	ug/L	<2	<2		<2	2	3979099
Total Organic Carbon (TOC)	mg/L	0.88	1.3		12	0.20	3979526
Total Suspended Solids	mg/L	130	310		250	10	3978467
Turbidity	NTU	17	200		600	0.2	3978292
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		ABU945	ABU947	ABU947	ABU949		
Sampling Date		2015/04/09 10:55	2015/04/09 10:55	2015/04/09 10:55	2015/04/09 15:45		
COC Number		508378-02-01	508378-02-01	508378-02-01	508378-02-01		
	Units	WG-160900764 -20150409-RD06	WG-160900764 -20150409-RD07	WG-160900764 -20150409-RD07 Lab-Dup	WG-160900764 -20150409-RD09	RDL	QC Batch
Metals							
Chromium (VI)	ug/L	<0.50	<0.50		<0.50	0.50	3979107
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	3984412
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PCBS (WATER)

Maxxam ID		ABU945	ABU947	ABU949		
Sampling Date		2015/04/09 10:55	2015/04/09 10:55	2015/04/09 15:45		
COC Number		508378-02-01	508378-02-01	508378-02-01		
	Units	WG-160900764 -20150409-RD06	WG-160900764 -20150409-RD07	WG-160900764 -20150409-RD09	RDL	QC Batch
PCBs						
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	0.05	3979025
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	0.05	3979025
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	0.05	3979025
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	0.05	3979025
Total PCB	ug/L	<0.05	<0.05	<0.05	0.05	3979025
Surrogate Recovery (%)						
Decachlorobiphenyl	%	95	96	89		3979025
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		ABU945	ABU947	ABU949		
Sampling Date		2015/04/09 10:55	2015/04/09 10:55	2015/04/09 15:45		
COC Number		508378-02-01	508378-02-01	508378-02-01		
	Units	WG-160900764 -20150409-RD06	WG-160900764 -20150409-RD07	WG-160900764 -20150409-RD09	RDL	QC Batch
BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/L	<25	<25	<25	25	3980310
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	3980310
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	3983511
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	3983511
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	3983511
Reached Baseline at C50	ug/L	Yes	Yes	Yes		3983511
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	107	105	105		3980310
4-Bromofluorobenzene	%	92	95	96		3980310
D10-Ethylbenzene	%	101	103	103		3980310
D4-1,2-Dichloroethane	%	94	93	93		3980310
o-Terphenyl	%	92	92	94		3983511
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABU945		ABU946	ABU947	ABU948		
Sampling Date		2015/04/09 10:55		2015/04/09 10:55	2015/04/09 10:55	2015/04/09 10:55		
COC Number		508378-02-01		508378-02-01	508378-02-01	508378-02-01		
	Units	WG-160900764 -20150409-RD06	RDL	WG-160900764-20150409- RD06A	WG-160900764 -20150409-RD07	WG-160900764-20150409- RD07A	RDL	QC Batch
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.2	0.2	<0.1	<0.1	<0.1	0.1	3990427
1-Methylnaphthalene	ug/L	<0.4	0.4	<0.2	<0.2	<0.2	0.2	3990427
2,4,5-Trichlorophenol	ug/L	<0.4	0.4	<0.2	<0.2	<0.2	0.2	3990427
2,4,6-Trichlorophenol	ug/L	<0.4	0.4	<0.2	<0.2	<0.2	0.2	3990427
2,4-Dichlorophenol	ug/L	<0.2	0.2	<0.1	<0.1	<0.1	0.1	3990427
2,4-Dimethylphenol	ug/L	<1	1	<0.5	<0.5	<0.5	0.5	3990427
2,4-Dinitrophenol	ug/L	<4	4	<2	<2	<2	2	3990427
2,4-Dinitrotoluene	ug/L	<0.5	0.5	<0.3	<0.3	<0.3	0.3	3990427
2,6-Dinitrotoluene	ug/L	<0.5	0.5	<0.3	<0.3	<0.3	0.3	3990427
2-Chlorophenol	ug/L	<0.2	0.2	<0.1	<0.1	<0.1	0.1	3990427
2-Methylnaphthalene	ug/L	<0.4	0.4	<0.2	<0.2	<0.2	0.2	3990427
3,3'-Dichlorobenzidine	ug/L	<1	1	<0.5	<0.5	<0.5	0.5	3990427
Acenaphthene	ug/L	<0.4	0.4	<0.2	<0.2	<0.2	0.2	3990427
Acenaphthylene	ug/L	<0.4	0.4	<0.2	<0.2	<0.2	0.2	3990427
Anthracene	ug/L	<0.1	0.1	<0.05	<0.05	<0.05	0.05	3990427
Benzo(a)anthracene	ug/L	<0.1	0.1	<0.05	<0.05	<0.05	0.05	3990427
Benzo(a)pyrene	ug/L	<0.02	0.02	<0.01	<0.01	<0.01	0.01	3990427
Benzo(b/j)fluoranthene	ug/L	<0.1	0.1	<0.05	<0.05	<0.05	0.05	3990427
Benzo(g,h,i)perylene	ug/L	<0.1	0.1	<0.05	<0.05	<0.05	0.05	3990427
Benzo(k)fluoranthene	ug/L	<0.1	0.1	<0.05	<0.05	<0.05	0.05	3990427
Biphenyl	ug/L	<0.2	0.2	<0.1	<0.1	<0.1	0.1	3990427
Bis(2-chloroethyl)ether	ug/L	<1	1	<0.5	<0.5	<0.5	0.5	3990427
Bis(2-chloroisopropyl)ether	ug/L	<1	1	<0.5	<0.5	<0.5	0.5	3990427
Bis(2-ethylhexyl)phthalate	ug/L	<2	2	<1	<1	<1	1	3990427
Chrysene	ug/L	<0.1	0.1	<0.05	<0.05	<0.05	0.05	3990427
Dibenz(a,h)anthracene	ug/L	<0.2	0.2	<0.1	<0.1	<0.1	0.1	3990427
Diethyl phthalate	ug/L	<0.2	0.2	0.1	<0.1	1.9	0.1	3990427
Dimethyl phthalate	ug/L	<0.2	0.2	<0.1	<0.1	<0.1	0.1	3990427
Fluoranthene	ug/L	<0.4	0.4	<0.2	<0.2	<0.2	0.2	3990427
Fluorene	ug/L	<0.4	0.4	<0.2	<0.2	<0.2	0.2	3990427
Indeno(1,2,3-cd)pyrene	ug/L	<0.2	0.2	<0.1	<0.1	<0.1	0.1	3990427
Naphthalene	ug/L	<0.4	0.4	<0.2	<0.2	<0.2	0.2	3990427
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABU945		ABU946	ABU947	ABU948		
Sampling Date		2015/04/09 10:55		2015/04/09 10:55	2015/04/09 10:55	2015/04/09 10:55		
COC Number		508378-02-01		508378-02-01	508378-02-01	508378-02-01		
	Units	WG-160900764 -20150409-RD06	RDL	WG-160900764-20150409- RD06A	WG-160900764 -20150409-RD07	WG-160900764-20150409- RD07A	RDL	QC Batch
p-Chloroaniline	ug/L	<2	2	<1	<1	<1	1	3990427
Pentachlorophenol	ug/L	<0.2	0.2	<0.1	<0.1	<0.1	0.1	3990427
Phenanthrene	ug/L	<0.2	0.2	<0.1	<0.1	<0.1	0.1	3990427
Phenol	ug/L	<1	1	<0.5	<0.5	<0.5	0.5	3990427
Pyrene	ug/L	<0.1	0.1	<0.05	<0.05	<0.05	0.05	3990427
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.57	0.57	<0.28	<0.28	<0.28	0.28	3977774
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	62		67	60	72		3990427
2-Fluorobiphenyl	%	67		72	65	65		3990427
D14-Terphenyl (FS)	%	92		7.3 (1)	88	3.0 (1)		3990427
D5-Nitrobenzene	%	73		78	70	76		3990427
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 #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABU949	ABU950	ABX083		ABX084		
Sampling Date		2015/04/09 15:45	2015/04/09 15:45	2015/04/09 15:45		2015/04/09 15:45		
COC Number		508378-02-01	508378-02-01	508378-02-01		508378-02-01		
	Units	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	59	1	3990427
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	81	1	3990427
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	100	1	3990427
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	100	1	3990427
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	93	1	3990427
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	51	1	3990427
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	100	1	3990427
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	100	1	3990427
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	100	1	3990427
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	80	1	3990427
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	73	1	3990427
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	92	1	3990427
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	74	1	3990427
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	79	1	3990427
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	26 (1)	1	3990427
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	18 (1)	1	3990427
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	17 (1)	1	3990427
Benzo(b,j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	17 (1)	1	3990427
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	12 (1)	1	3990427
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	17 (1)	1	3990427
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	73	1	3990427
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	88	1	3990427
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	78	1	3990427
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	18 (1)	1	3990427
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	17 (1)	1	3990427
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	13 (1)	1	3990427
Diethyl phthalate	ug/L	<0.1	5.2	<0.1	0.1	100	1	3990427
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	100	1	3990427
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	27 (1)	1	3990427
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	59	1	3990427
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 #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABU949	ABU950	ABX083		ABX084		
Sampling Date		2015/04/09 15:45	2015/04/09 15:45	2015/04/09 15:45		2015/04/09 15:45		
COC Number		508378-02-01	508378-02-01	508378-02-01		508378-02-01		
	Units	WG-160900764 -20150409-RD09	WG-160900764-20150409- RD09A	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	3990427
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	73	1	3990427
p-Chloroaniline	ug/L	<1	<1	<1	1	95	1	3990427
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	80	1	3990427
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	42 (1)	1	3990427
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	36	1	3990427
Pyrene	ug/L	<0.05	<0.05	<0.05	0.05	28 (1)	1	3990427
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	0.28			3977774
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	50	53	57		94		3990427
2-Fluorobiphenyl	%	50	51	71		71		3990427
D14-Terphenyl (FS)	%	81	7.6 (1)	6.8 (1)		37 (1)		3990427
D5-Nitrobenzene	%	44 (1)	60	77		82		3990427
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 #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ABU945	ABU947	ABU949		
Sampling Date		2015/04/09 10:55	2015/04/09 10:55	2015/04/09 15:45		
COC Number		508378-02-01	508378-02-01	508378-02-01		
	Units	WG-160900764 -20150409-RD06	WG-160900764 -20150409-RD07	WG-160900764 -20150409-RD09	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	3977883
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	3978045
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	3978045
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	3978045
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	3978045
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	3978045
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	3978045
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	3978045
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	3978045
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	3978045
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	3978045
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	3978045
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	3978045
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	3978045
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	3978045
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	3978045
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	3978045
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	3978045
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	3978045
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	3978045
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	3978045
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	3978045
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	3978045
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	3978045
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	3978045
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	3978045
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	3978045
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	3978045
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	3978045
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	3978045
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	3978045
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ABU945	ABU947	ABU949		
Sampling Date		2015/04/09 10:55	2015/04/09 10:55	2015/04/09 15:45		
COC Number		508378-02-01	508378-02-01	508378-02-01		
	Units	WG-160900764 -20150409-RD06	WG-160900764 -20150409-RD07	WG-160900764 -20150409-RD09	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	3978045
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	3978045
Toluene	ug/L	<0.20	<0.20	0.28	0.20	3978045
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	3978045
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	3978045
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	3978045
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	3978045
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	3978045
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	3978045
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	3978045
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	3978045
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	88	90	90		3978045
D4-1,2-Dichloroethane	%	103	106	106		3978045
D8-Toluene	%	90	90	89		3978045
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABU945
Sample ID: WG-160900764-20150409-RD06
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3977774	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic
Acidity as CaCO3 in liquid		3980375	2015/04/13	2015/04/20	Grace Sison
Alkalinity	AT	3986382	N/A	2015/04/17	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3978019	N/A	2015/04/13	Automated Statchk
1,3-Dichloropropene Sum	CALC	3977883	N/A	2015/04/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	3979254	N/A	2015/04/15	Deonarine Ramnarine
Conductivity	AT	3986383	N/A	2015/04/17	Surinder Rai
Chromium (VI) in Water	IC	3979107	N/A	2015/04/13	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3979099	N/A	2015/04/16	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3978240	N/A	2015/04/10	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3980310	N/A	2015/04/13	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3983511	2015/04/15	2015/04/16	Zhiyue (Frank) Zhu
Fluoride	ISE	3978296	2015/04/10	2015/04/11	Yogesh Patel
Hardness (calculated as CaCO3)		3977795	N/A	2015/04/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	3984412	2015/04/16	2015/04/16	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3981290	N/A	2015/04/14	Arefa Dabhad
Ion Balance (% Difference)	CALC	3978020	N/A	2015/04/16	Automated Statchk
Anion and Cation Sum	CALC	3978021	N/A	2015/04/14	Automated Statchk
Total Ammonia-N	LACH/NH4	3979957	N/A	2015/04/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3978948	N/A	2015/04/16	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3979025	2015/04/11	2015/04/11	Sarah Huang
pH	AT	3978305	N/A	2015/04/11	Yogesh Patel
Orthophosphate	KONE	3979256	N/A	2015/04/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3978022	N/A	2015/04/16	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3978023	N/A	2015/04/16	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3979255	N/A	2015/04/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	3978024	N/A	2015/04/16	Automated Statchk
Total Dissolved Solids	BAL	3978711	N/A	2015/04/13	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	3979526	N/A	2015/04/13	Elsamma Alex
Total Suspended Solids	BAL	3978467	N/A	2015/04/11	Subhashchandra Patel
Turbidity	AT	3978292	N/A	2015/04/11	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3978045	N/A	2015/04/13	Karen Hughes

Maxxam ID: ABU945 Dup
Sample ID: WG-160900764-20150409-RD06
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	3986382	N/A	2015/04/17	Surinder Rai
Conductivity	AT	3986383	N/A	2015/04/17	Surinder Rai

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
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Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABU946
Sample ID: WG-160900764-20150409-RD06A
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3977774	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic

Maxxam ID: ABU947
Sample ID: WG-160900764-20150409-RD07
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3977774	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic
Acidity as CaCO3 in liquid		3980375	2015/04/13	2015/04/20	Grace Sison
Alkalinity	AT	3986382	N/A	2015/04/17	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3978019	N/A	2015/04/13	Automated Statchk
1,3-Dichloropropene Sum	CALC	3977883	N/A	2015/04/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	3979254	N/A	2015/04/15	Deonarine Ramnarine
Conductivity	AT	3986383	N/A	2015/04/17	Surinder Rai
Chromium (VI) in Water	IC	3979107	N/A	2015/04/13	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3979099	N/A	2015/04/16	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3978240	N/A	2015/04/10	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3980310	N/A	2015/04/13	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3983511	2015/04/15	2015/04/16	Zhiyue (Frank) Zhu
Fluoride	ISE	3978296	2015/04/10	2015/04/11	Yogesh Patel
Hardness (calculated as CaCO3)		3977795	N/A	2015/04/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	3984412	2015/04/16	2015/04/16	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3981290	N/A	2015/04/14	Arefa Dabhad
Ion Balance (% Difference)	CALC	3978020	N/A	2015/04/16	Automated Statchk
Anion and Cation Sum	CALC	3978021	N/A	2015/04/14	Automated Statchk
Total Ammonia-N	LACH/NH4	3979957	N/A	2015/04/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3978338	N/A	2015/04/16	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3979025	2015/04/11	2015/04/11	Sarah Huang
pH	AT	3978305	N/A	2015/04/11	Yogesh Patel
Orthophosphate	KONE	3979256	N/A	2015/04/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3978022	N/A	2015/04/16	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3978023	N/A	2015/04/16	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3979255	N/A	2015/04/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	3978024	N/A	2015/04/16	Automated Statchk
Total Dissolved Solids	BAL	3978711	N/A	2015/04/13	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	3979526	N/A	2015/04/13	Elsamma Alex
Total Suspended Solids	BAL	3978467	N/A	2015/04/11	Subhashchandra Patel
Turbidity	AT	3978292	N/A	2015/04/11	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3978045	N/A	2015/04/13	Karen Hughes

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABU947 Dup
Sample ID: WG-160900764-20150409-RD07
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	3978296	2015/04/10	2015/04/11	Yogesh Patel
Mercury in Water by CVAA	CV/AA	3984412	2015/04/16	2015/04/16	Magdalena Carlos
pH	AT	3978305	N/A	2015/04/11	Yogesh Patel

Maxxam ID: ABU948
Sample ID: WG-160900764-20150409-RD07A
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3977774	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic

Maxxam ID: ABU949
Sample ID: WG-160900764-20150409-RD09
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3977774	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic
Acidity as CaCO3 in liquid		3980375	2015/04/13	2015/04/20	Grace Sison
Alkalinity	AT	3986382	N/A	2015/04/17	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3978019	N/A	2015/04/13	Automated Statchk
1,3-Dichloropropene Sum	CALC	3977883	N/A	2015/04/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	3992837	N/A	2015/04/23	Alina Dobreanu
Conductivity	AT	3986383	N/A	2015/04/17	Surinder Rai
Chromium (VI) in Water	IC	3979107	N/A	2015/04/13	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3979099	N/A	2015/04/16	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3978240	N/A	2015/04/10	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3980310	N/A	2015/04/13	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3983511	2015/04/15	2015/04/16	Zhiyue (Frank) Zhu
Fluoride	ISE	3978296	2015/04/10	2015/04/11	Yogesh Patel
Hardness (calculated as CaCO3)		3977795	N/A	2015/04/14	Automated Statchk
Mercury in Water by CVAA	CV/AA	3984412	2015/04/16	2015/04/16	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3981290	N/A	2015/04/14	Arefa Dabhad
Ion Balance (% Difference)	CALC	3978020	N/A	2015/04/15	Automated Statchk
Anion and Cation Sum	CALC	3978021	N/A	2015/04/14	Automated Statchk
Total Ammonia-N	LACH/NH4	3979957	N/A	2015/04/14	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3978338	N/A	2015/04/16	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3979025	2015/04/11	2015/04/11	Sarah Huang
pH	AT	3978305	N/A	2015/04/11	Yogesh Patel
Orthophosphate	KONE	3979256	N/A	2015/04/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3978022	N/A	2015/04/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3978023	N/A	2015/04/15	Automated Statchk

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABU949
Sample ID: WG-160900764-20150409-RD09
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sulphate by Automated Colourimetry	KONE	3992839	N/A	2015/04/23	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	3978024	N/A	2015/04/15	Automated Statchk
Total Dissolved Solids	BAL	3978711	N/A	2015/04/13	Gurpreet Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	3979526	N/A	2015/04/13	Elsamma Alex
Total Suspended Solids	BAL	3978467	N/A	2015/04/11	Subhashchandra Patel
Turbidity	AT	3978292	N/A	2015/04/11	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3978045	N/A	2015/04/13	Karen Hughes

Maxxam ID: ABU950
Sample ID: WG-160900764-20150409-RD09A
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3977774	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic

Maxxam ID: ABX083
Sample ID: FILTERED BLANK
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3977774	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic

Maxxam ID: ABX084
Sample ID: FILTERED SPIKE
Matrix: Water

Collected: 2015/04/09
Shipped:
Received: 2015/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic

Maxxam Job #: B562741
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

GENERAL COMMENTS

Sample containers submitted for Acidity had headspace.

Sample ABU945-01 : 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 ABU949-01 : Total Organic Carbon < Dissolved Organic Carbon: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Acidity Test: Sample initial pH was (>8.3), therefore acidity was not detected (ND).

Elevated ion balance was confirmed by re-analysis.

Sample ABX084-01 : ABN analysis:Data are reported as percentage recoveries.

Results relate only to the items tested.

Maxxam Job #: B562741
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3978045	4-Bromofluorobenzene	2015/04/13	100	70 - 130	101	70 - 130	94	%				
3978045	D4-1,2-Dichloroethane	2015/04/13	99	70 - 130	101	70 - 130	102	%				
3978045	D8-Toluene	2015/04/13	106	70 - 130	105	70 - 130	92	%				
3979025	Decachlorobiphenyl	2015/04/11	111	60 - 130	107	60 - 130	107	%				
3980310	1,4-Difluorobenzene	2015/04/13	104	70 - 130	101	70 - 130	102	%				
3980310	4-Bromofluorobenzene	2015/04/13	104	70 - 130	105	70 - 130	97	%				
3980310	D10-Ethylbenzene	2015/04/13	103	70 - 130	94	70 - 130	99	%				
3980310	D4-1,2-Dichloroethane	2015/04/13	94	70 - 130	97	70 - 130	98	%				
3983511	o-Terphenyl	2015/04/15	96	60 - 130	94	60 - 130	92	%				
3990427	2,4,6-Tribromophenol	2015/04/22			90	50 - 130	66	%				
3990427	2-Fluorobiphenyl	2015/04/22			77	50 - 130	84	%				
3990427	D14-Terphenyl (FS)	2015/04/22			85	50 - 130	93	%				
3990427	D5-Nitrobenzene	2015/04/22			71	50 - 130	90	%				
3978045	1,1,1,2-Tetrachloroethane	2015/04/13	104	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
3978045	1,1,1-Trichloroethane	2015/04/13	100	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
3978045	1,1,2,2-Tetrachloroethane	2015/04/13	105	70 - 130	107	70 - 130	<0.50	ug/L	NC	30		
3978045	1,1,2-Trichloroethane	2015/04/13	100	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3978045	1,1-Dichloroethane	2015/04/13	105	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
3978045	1,1-Dichloroethylene	2015/04/13	111	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
3978045	1,2-Dichlorobenzene	2015/04/13	103	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
3978045	1,2-Dichloroethane	2015/04/13	101	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3978045	1,2-Dichloropropane	2015/04/13	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
3978045	1,3-Dichlorobenzene	2015/04/13	100	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3978045	1,4-Dichlorobenzene	2015/04/13	101	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
3978045	Acetone (2-Propanone)	2015/04/13	105	60 - 140	105	60 - 140	<10	ug/L	NC	30		
3978045	Benzene	2015/04/13	102	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
3978045	Bromodichloromethane	2015/04/13	99	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
3978045	Bromoform	2015/04/13	99	70 - 130	102	70 - 130	<1.0	ug/L	NC	30		
3978045	Bromomethane	2015/04/13	101	60 - 140	100	60 - 140	<0.50	ug/L	NC	30		
3978045	Carbon Tetrachloride	2015/04/13	103	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
3978045	Chlorobenzene	2015/04/13	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		

Maxxam Job #: B562741
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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3978045	Chloroform	2015/04/13	104	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
3978045	cis-1,2-Dichloroethylene	2015/04/13	102	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3978045	cis-1,3-Dichloropropene	2015/04/13	91	70 - 130	90	70 - 130	<0.30	ug/L	NC	30		
3978045	Dibromochloromethane	2015/04/13	102	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
3978045	Dichlorodifluoromethane (FREON 12)	2015/04/13	91	60 - 140	89	60 - 140	<1.0	ug/L	NC	30		
3978045	Ethylbenzene	2015/04/13	98	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
3978045	Ethylene Dibromide	2015/04/13	101	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
3978045	Hexane	2015/04/13	106	70 - 130	103	70 - 130	<1.0	ug/L	NC	30		
3978045	Methyl Ethyl Ketone (2-Butanone)	2015/04/13	98	60 - 140	100	60 - 140	<10	ug/L	NC	30		
3978045	Methyl Isobutyl Ketone	2015/04/13	82	70 - 130	86	70 - 130	<5.0	ug/L	NC	30		
3978045	Methyl t-butyl ether (MTBE)	2015/04/13	90	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
3978045	Methylene Chloride(Dichloromethane)	2015/04/13	115	70 - 130	114	70 - 130	<2.0	ug/L	NC	30		
3978045	o-Xylene	2015/04/13	93	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
3978045	p+m-Xylene	2015/04/13	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
3978045	Styrene	2015/04/13	79	70 - 130	82	70 - 130	<0.50	ug/L	NC	30		
3978045	Tetrachloroethylene	2015/04/13	110	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
3978045	Toluene	2015/04/13	101	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
3978045	Total Xylenes	2015/04/13					<0.20	ug/L	NC	30		
3978045	trans-1,2-Dichloroethylene	2015/04/13	106	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
3978045	trans-1,3-Dichloropropene	2015/04/13	93	70 - 130	93	70 - 130	<0.40	ug/L	NC	30		
3978045	Trichloroethylene	2015/04/13	103	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
3978045	Trichlorofluoromethane (FREON 11)	2015/04/13	99	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
3978045	Vinyl Chloride	2015/04/13	100	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
3978240	Dissolved Organic Carbon	2015/04/10	99	80 - 120	99	80 - 120	<0.20	mg/L	0.59	20		
3978292	Turbidity	2015/04/10			99	85 - 115	<0.2	NTU	1.3	20		
3978296	Fluoride (F-)	2015/04/11	104	80 - 120	105	80 - 120	<0.10	mg/L	NC	20		
3978305	pH	2015/04/11			102	98 - 103			0.028	N/A		
3978338	Nitrate (N)	2015/04/16	107	80 - 120	105	80 - 120	<0.10	mg/L	NC	25		
3978338	Nitrite (N)	2015/04/16	108	80 - 120	101	80 - 120	<0.010	mg/L				
3978467	Total Suspended Solids	2015/04/11					<10	mg/L	NC	25	97	85 - 115
3978711	Total Dissolved Solids	2015/04/13					<10	mg/L	0.45	25	101	90 - 110

Maxxam Job #: B562741
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3978948	Nitrate (N)	2015/04/16	87	80 - 120	106	80 - 120	<0.10	mg/L	1.1	25		
3978948	Nitrite (N)	2015/04/16	NC	80 - 120	98	80 - 120	<0.010	mg/L	1.8	25		
3979025	Aroclor 1242	2015/04/11					<0.05	ug/L	NC	30		
3979025	Aroclor 1248	2015/04/11					<0.05	ug/L	NC	30		
3979025	Aroclor 1254	2015/04/11					<0.05	ug/L	NC	30		
3979025	Aroclor 1260	2015/04/11	94	60 - 130	90	60 - 130	<0.05	ug/L	NC	30		
3979025	Total PCB	2015/04/11	94	60 - 130	90	60 - 130	<0.05	ug/L	NC	40		
3979099	Free Cyanide	2015/04/16	109	80 - 120	109	80 - 120	<2	ug/L	NC	20		
3979107	Chromium (VI)	2015/04/13	91	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
3979254	Dissolved Chloride (Cl)	2015/04/15	NC	80 - 120	104	80 - 120	<1	mg/L	3.5	20		
3979255	Dissolved Sulphate (SO4)	2015/04/13	98	75 - 125	100	80 - 120	<1	mg/L	0.28	20		
3979256	Orthophosphate (P)	2015/04/13	108	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
3979526	Total Organic Carbon (TOC)	2015/04/13	97	80 - 120	99	80 - 120	<0.20	mg/L	2.4	20		
3979957	Total Ammonia-N	2015/04/14	NC	80 - 120	98	85 - 115	<0.050	mg/L	0.048	20		
3980310	F1 (C6-C10) - BTEX	2015/04/13					<25	ug/L	NC	30		
3980310	F1 (C6-C10)	2015/04/13	98	70 - 130	93	70 - 130	<25	ug/L	NC	30		
3980375	Acidity as CaCO3	2015/04/20					<10	mg/L	NC	25		
3981290	Dissolved Aluminum (Al)	2015/04/14	109	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20		
3981290	Dissolved Antimony (Sb)	2015/04/14	107	80 - 120	98	80 - 120	<0.00050	mg/L				
3981290	Dissolved Arsenic (As)	2015/04/14	104	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
3981290	Dissolved Barium (Ba)	2015/04/14	96	80 - 120	95	80 - 120	<0.0020	mg/L	0.089	20		
3981290	Dissolved Beryllium (Be)	2015/04/14	105	80 - 120	100	80 - 120	<0.00050	mg/L				
3981290	Dissolved Boron (B)	2015/04/14	NC	80 - 120	100	80 - 120	<0.010	mg/L	0.98	20		
3981290	Dissolved Cadmium (Cd)	2015/04/14	104	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20		
3981290	Dissolved Calcium (Ca)	2015/04/14	NC	80 - 120	101	80 - 120	<0.20	mg/L	1.6	20		
3981290	Dissolved Chromium (Cr)	2015/04/14	100	80 - 120	96	80 - 120	<0.0050	mg/L	NC	20		
3981290	Dissolved Cobalt (Co)	2015/04/14	97	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
3981290	Dissolved Copper (Cu)	2015/04/14	100	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
3981290	Dissolved Iron (Fe)	2015/04/14	102	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
3981290	Dissolved Lead (Pb)	2015/04/14	98	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
3981290	Dissolved Magnesium (Mg)	2015/04/14	NC	80 - 120	100	80 - 120	<0.050	mg/L	0.044	20		

Maxxam Job #: B562741
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3981290	Dissolved Manganese (Mn)	2015/04/14	101	80 - 120	97	80 - 120	<0.0020	mg/L	9.3	20		
3981290	Dissolved Molybdenum (Mo)	2015/04/14	108	80 - 120	98	80 - 120	<0.00050	mg/L	1.6	20		
3981290	Dissolved Nickel (Ni)	2015/04/14	97	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20		
3981290	Dissolved Phosphorus (P)	2015/04/14	108	80 - 120	101	80 - 120	<0.10	mg/L				
3981290	Dissolved Potassium (K)	2015/04/14	104	80 - 120	99	80 - 120	<0.20	mg/L	0.36	20		
3981290	Dissolved Selenium (Se)	2015/04/14	106	80 - 120	102	80 - 120	<0.0020	mg/L	NC	20		
3981290	Dissolved Silicon (Si)	2015/04/14	106	80 - 120	102	80 - 120	<0.050	mg/L				
3981290	Dissolved Silver (Ag)	2015/04/14	101	80 - 120	96	80 - 120	<0.00010	mg/L				
3981290	Dissolved Sodium (Na)	2015/04/14	NC	80 - 120	99	80 - 120	<0.10	mg/L	0.088	20		
3981290	Dissolved Strontium (Sr)	2015/04/14	NC	80 - 120	96	80 - 120	<0.0010	mg/L				
3981290	Dissolved Thallium (Tl)	2015/04/14	99	80 - 120	95	80 - 120	<0.000050	mg/L				
3981290	Dissolved Titanium (Ti)	2015/04/14	103	80 - 120	98	80 - 120	<0.0050	mg/L				
3981290	Dissolved Uranium (U)	2015/04/14	93	80 - 120	87	80 - 120	<0.00010	mg/L				
3981290	Dissolved Vanadium (V)	2015/04/14	101	80 - 120	96	80 - 120	<0.00050	mg/L				
3981290	Dissolved Zinc (Zn)	2015/04/14	101	80 - 120	96	80 - 120	<0.0050	mg/L	NC	20		
3981290	Dissolved Zirconium (Zr)	2015/04/14	107	80 - 120	98	80 - 120	<0.0010	mg/L				
3983511	F2 (C10-C16 Hydrocarbons)	2015/04/16	94	50 - 130	93	60 - 130	<100	ug/L	NC	30		
3983511	F3 (C16-C34 Hydrocarbons)	2015/04/16	96	50 - 130	97	60 - 130	<200	ug/L	NC	30		
3983511	F4 (C34-C50 Hydrocarbons)	2015/04/16	99	50 - 130	98	60 - 130	<200	ug/L	NC	30		
3984412	Mercury (Hg)	2015/04/16	100	80 - 120	106	80 - 120	<0.00010	mg/L	NC	20		
3986382	Alkalinity (Total as CaCO3)	2015/04/17			96	85 - 115	<1.0	mg/L	0.93	25		
3986383	Conductivity	2015/04/17			100	85 - 115	<1.0	umho/cm	0.36	25		
3990427	1,2,4-Trichlorobenzene	2015/04/22			60	40 - 130	<0.1	ug/L	4.3	30		
3990427	1-Methylnaphthalene	2015/04/22			83	50 - 130	<0.2	ug/L	1.9	30		
3990427	2,4,5-Trichlorophenol	2015/04/22			95	50 - 130	<0.2	ug/L	2.5	30		
3990427	2,4,6-Trichlorophenol	2015/04/22			93	50 - 130	<0.2	ug/L	1.8	30		
3990427	2,4-Dichlorophenol	2015/04/22			83	50 - 130	<0.1	ug/L	12	30		
3990427	2,4-Dimethylphenol	2015/04/22			31	30 - 130	<0.5	ug/L	21	30		
3990427	2,4-Dinitrophenol	2015/04/22			100	30 - 130	<2	ug/L	1.6	30		
3990427	2,4-Dinitrotoluene	2015/04/22			92	50 - 130	<0.3	ug/L	1.3	30		

Maxxam Job #: B562741
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3990427	2,6-Dinitrotoluene	2015/04/22			91	50 - 130	<0.3	ug/L	1.2	30		
3990427	2-Chlorophenol	2015/04/22			66	50 - 130	<0.1	ug/L	6.4	30		
3990427	2-Methylnaphthalene	2015/04/22			76	50 - 130	<0.2	ug/L	1.8	30		
3990427	3,3'-Dichlorobenzidine	2015/04/22			88	30 - 130	<0.5	ug/L	2.1	30		
3990427	Acenaphthene	2015/04/22			88	50 - 130	<0.2	ug/L	0.72	30		
3990427	Acenaphthylene	2015/04/22			83	50 - 130	<0.2	ug/L	0.66	30		
3990427	Anthracene	2015/04/22			93	50 - 130	<0.05	ug/L	0.53	30		
3990427	Benzo(a)anthracene	2015/04/22			99	50 - 130	<0.05	ug/L	1.1	30		
3990427	Benzo(a)pyrene	2015/04/22			106	50 - 130	<0.01	ug/L	1.3	30		
3990427	Benzo(b/j)fluoranthene	2015/04/22			106	50 - 130	<0.05	ug/L	0.075	30		
3990427	Benzo(g,h,i)perylene	2015/04/22			81	50 - 130	<0.05	ug/L	5.5	30		
3990427	Benzo(k)fluoranthene	2015/04/22			104	50 - 130	<0.05	ug/L	2.6	30		
3990427	Biphenyl	2015/04/22			82	50 - 130	<0.1	ug/L	0.71	30		
3990427	Bis(2-chloroethyl)ether	2015/04/22			74	50 - 130	<0.5	ug/L	5.9	30		
3990427	Bis(2-chloroisopropyl)ether	2015/04/22			67	50 - 130	<0.5	ug/L	5.8	30		
3990427	Bis(2-ethylhexyl)phthalate	2015/04/22			103	50 - 130	<1	ug/L	0.99	30		
3990427	Chrysene	2015/04/22			102	50 - 130	<0.05	ug/L	1.2	30		
3990427	Dibenz(a,h)anthracene	2015/04/22			86	50 - 130	<0.1	ug/L	5.1	30		
3990427	Diethyl phthalate	2015/04/22			101	50 - 130	<0.1	ug/L	0.58	30		
3990427	Dimethyl phthalate	2015/04/22			98	50 - 130	<0.1	ug/L	0.84	30		
3990427	Fluoranthene	2015/04/22			100	50 - 130	<0.2	ug/L	0.76	30		
3990427	Fluorene	2015/04/22			91	50 - 130	<0.2	ug/L	1.5	30		
3990427	Indeno(1,2,3-cd)pyrene	2015/04/22			87	50 - 130	<0.1	ug/L	4.7	30		
3990427	Naphthalene	2015/04/22			65	50 - 130	<0.2	ug/L	3.7	30		
3990427	p-Chloroaniline	2015/04/22			78	30 - 130	<1	ug/L	11	30		
3990427	Pentachlorophenol	2015/04/22			72	50 - 130	<0.1	ug/L	12	30		
3990427	Phenanthrene	2015/04/22			94	50 - 130	<0.1	ug/L	0.68	30		
3990427	Phenol	2015/04/22			31	30 - 130	<0.5	ug/L	6.5 (1)	30		
3990427	Pyrene	2015/04/22			107	50 - 130	<0.05	ug/L	0.075	30		
3992837	Dissolved Chloride (Cl)	2015/04/23	NC	80 - 120	103	80 - 120	<1	mg/L	0.49	20		

Maxxam Job #: B562741
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3992839	Dissolved Sulphate (SO4)	2015/04/23	NC	75 - 125	102	80 - 120	<1	mg/L	0.17	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.

Maxxam Job #: B562741
Report Date: 2015/04/23



Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
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 Pranjić, 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.

9-Apr-15 18:10

Krystal Seedial

Page 2 of 4

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: _____
 Contact Name: _____
 Address: _____
 Phone: _____ Fax: _____
 Email: AS REQUESTED

PROJECT INFORMATION:

Quotation #: B48218
 Task #: _____
 Project #: 160900764
 Profit Centre: _____
 Site #: CLARINGTON TS-MONITORING W
 Sampled By: Rachel Denin

B562741
 FW ENV-1075

Is Only:

Bottle Order #: _____
 Project Manager: Krystal Seedial

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 _____
 PWGO
 Other _____

Special Instructions

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metsar (Hg, Cr, V)	Acidity, CVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	10 Reg 153 Petroleum Hydrocarbons (Water)	10 Reg 153 PCBs (Water)	10 Reg 153 Volatile Organics (Water)	PCAP - Comprehensive (field filtered metals)	SVOCs	Lab Filtered SVOCs
1	WG-160900764-201504 09-RD06	Apr 9/15	10:55	GW	Y	X	X	X	X	X	X	X	
2	WG-160900764-201504 09-RD06A											X	
3	WG-160900764-201504 09-RD07					X	X	X	X	X	X	X	
4	WG-160900764-201504 09-RD07A											X	
5	WG-160900764-201504 09-RD09		1545			X	X	X	X	X	X	X	
6	WG-160900764-201504 09-RD09A		1545									X	
7	WG-160900764-201504												
8	WG-160900764-201504												
9	WG-160900764-201504												
10	WG-160900764-201504												

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 #)

* RELINQUISHED BY: (Signature/Print) _____ Date: (YY/MM/DD) 15/04/09 Time 18:10 RECEIVED BY: (Signature/Print) RACHEL DENIN Date: (YY/MM/DD) 2015/04/09 Time 18:10

jars used and not submitted _____

Laboratory Use Only

Time Sensitive _____ Temperature (°C) on Receipt 3/3/4
 Custody Seal Present Yes No
 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

Your P.O. #: 16400NR
 Your Project #: 160900764
 Site Location: CLARINGTON TS-MONITORING WELLS
 Your C.O.C. #: 508378-03-01

Attention: Lesley Veale, Brant Gill,

Stantec Consulting Ltd - Clarington
 ON
 Canada

Report Date: 2015/04/23
 Report #: R3399472
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B563828

Received: 2015/04/10, 16:00

Sample Matrix: Water
 # Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	8	N/A	2015/04/21	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	6	2015/04/21	2015/04/22	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	3	2015/04/21	2015/04/23	CAM SOP-00301	EPA 8270 m
Acidity as CaCO3 in liquid (1, 2)	3	2015/04/13	2015/04/20	SLA SOP-00100	APHA SM2310B (Mod)
Alkalinity	2	N/A	2015/04/13	CAM SOP-00448	SM 22 2320 B m
Alkalinity	1	N/A	2015/04/21	CAM SOP-00448	SM 22 2320 B m
Carbonate, Bicarbonate and Hydroxide	3	N/A	2015/04/14	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	4	N/A	2015/04/15	CAM SOP-00226	EPA 8260C m
Chloride by Automated Colourimetry	2	N/A	2015/04/15	CAM SOP-00463	EPA 325.2 m
Chloride by Automated Colourimetry	1	N/A	2015/04/21	CAM SOP-00463	EPA 325.2 m
Conductivity	3	N/A	2015/04/13	CAM SOP-00414	SM 22 2510 m
Chromium (VI) in Water	3	N/A	2015/04/15	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	3	N/A	2015/04/16	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (3)	3	N/A	2015/04/14	CAM SOP-00446	SM 22 5310 B m
Petroleum Hydro. CCME F1 & BTEX in Water	3	N/A	2015/04/16	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2015/04/17	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water	4	2015/04/17	2015/04/18	CAM SOP-00316	CCME PHC-CWS m
Fluoride	3	2015/04/11	2015/04/13	CAM SOP-00449	SM 22 4500-F C m
Hardness (calculated as CaCO3)	3	N/A	2015/04/17	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	3	2015/04/20	2015/04/21	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	3	N/A	2015/04/17	CAM SOP-00447	EPA 6020A m
Ion Balance (% Difference)	3	N/A	2015/04/17		
Anion and Cation Sum	3	N/A	2015/04/17		
Total Ammonia-N	3	N/A	2015/04/17	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (4)	3	N/A	2015/04/17	CAM SOP-00440	SM 22 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	3	2015/04/13	2015/04/14	CAM SOP-00309	EPA 8082A m
pH	3	N/A	2015/04/13	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	3	N/A	2015/04/13	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	3	N/A	2015/04/17		
Sat. pH and Langelier Index (@ 4C)	3	N/A	2015/04/17		

Your P.O. #: 16400NR
 Your Project #: 160900764
 Site Location: CLARINGTON TS-MONITORING WELLS
 Your C.O.C. #: 508378-03-01

Attention: Lesley Veale, Brant Gill,

Stantec Consulting Ltd - Clarington
 ON
 Canada

Report Date: 2015/04/23
 Report #: R3399472
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B563828

Received: 2015/04/10, 16:00

Sample Matrix: Water
 # Samples Received: 9

Analyses	Date		Laboratory Method	Reference
	Quantity	Date		
Sulphate by Automated Colourimetry	2	N/A	2015/04/13 CAM SOP-00464	EPA 375.4 m
Sulphate by Automated Colourimetry	1	N/A	2015/04/21 CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	3	N/A	2015/04/17	
Total Dissolved Solids	3	N/A	2015/04/13 CAM SOP-00428	SM 22 2540C m
Total Organic Carbon (TOC) (5)	3	N/A	2015/04/15 CAM SOP-00446	SM 22 5310B m
Total Suspended Solids	3	N/A	2015/04/12 CAM SOP-00428	SM 22 2540D m
Turbidity	3	N/A	2015/04/13 CAM SOP-00417	SM 22 2130 B m
Volatile Organic Compounds in Water	4	N/A	2015/04/13 CAM SOP 00228	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.

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 the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (5) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Your P.O. #: 16400NR
Your Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your C.O.C. #: 508378-03-01

Attention: Lesley Veale, Brant Gill,
Stantec Consulting Ltd - Clarington
ON
Canada

Report Date: 2015/04/23
Report #: R3399472
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B563828
Received: 2015/04/10, 16:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Krystal Seedial, Project Manager
Email: KSeedial@maxxam.ca
Phone# (905) 817-5700

=====
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 #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABZ558			ABZ560		
Sampling Date		2015/04/10 11:25			2015/04/10 10:24		
COC Number		508378-03-01			508378-03-01		
	Units	WG-160900764 -20150410-RD08	RDL	QC Batch	WG-160900764-20150410- RD010	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	5.48	N/A	3978021	5.59	N/A	3978021
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	240	1.0	3978019	200	1.0	3978019
Calculated TDS	mg/L	240	1.0	3978024	320	1.0	3978024
Carb. Alkalinity (calc. as CaCO3)	mg/L	3.3	1.0	3978019	1.2	1.0	3978019
Cation Sum	me/L	3.01	N/A	3978021	5.49	N/A	3978021
Hardness (CaCO3)	mg/L	23	1.0	3978619	270	1.0	3978619
Ion Balance (% Difference)	%	29.0	N/A	3978020	0.890	N/A	3978020
Langelier Index (@ 20C)	N/A	-0.0670		3978022	0.633		3978022
Langelier Index (@ 4C)	N/A	-0.315		3978023	0.384		3978023
Saturation pH (@ 20C)	N/A	8.24		3978022	7.18		3978022
Saturation pH (@ 4C)	N/A	8.48		3978023	7.43		3978023
Inorganics							
Total Ammonia-N	mg/L	0.053	0.050	3982101	<0.050	0.050	3982101
Conductivity	umho/cm	280	1.0	3979251	540	1.0	3979251
Dissolved Organic Carbon	mg/L	2.0	0.20	3979036	0.69	0.20	3979036
Orthophosphate (P)	mg/L	0.015	0.010	3979256	<0.010	0.010	3979256
pH	pH	8.17	N/A	3979253	7.81	N/A	3979253
Dissolved Sulphate (SO4)	mg/L	23	1	3989713	20	1	3979255
Alkalinity (Total as CaCO3)	mg/L	240	1.0	3989715	200	1.0	3979250
Dissolved Chloride (Cl)	mg/L	3	1	3989711	8	1	3979254
Nitrite (N)	mg/L	<0.050	0.050	3979173	<0.010	0.010	3979173
Nitrate (N)	mg/L	<0.50	0.50	3979173	13.9	0.50	3979173
Nitrate + Nitrite	mg/L	<0.50	0.50	3979173	13.9	0.50	3979173
Metals							
Dissolved Aluminum (Al)	mg/L	0.078	0.0050	3984758	<0.0050	0.0050	3984758
Dissolved Antimony (Sb)	mg/L	0.0016	0.00050	3984758	<0.00050	0.00050	3984758
Dissolved Arsenic (As)	mg/L	0.0018	0.0010	3984758	<0.0010	0.0010	3984758
Dissolved Barium (Ba)	mg/L	0.0078	0.0020	3984758	0.029	0.0020	3984758
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	3984758	<0.00050	0.00050	3984758
Dissolved Boron (B)	mg/L	0.21	0.010	3984758	<0.010	0.010	3984758
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	3984758	<0.00010	0.00010	3984758
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable							

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABZ558			ABZ560		
Sampling Date		2015/04/10 11:25			2015/04/10 10:24		
COC Number		508378-03-01			508378-03-01		
	Units	WG-160900764 -20150410-RD08	RDL	QC Batch	WG-160900764-20150410- RD010	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	6.9	0.20	3984758	89	0.20	3984758
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	3984758	<0.0050	0.0050	3984758
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	3984758	<0.00050	0.00050	3984758
Dissolved Copper (Cu)	mg/L	0.0011	0.0010	3984758	0.0052	0.0010	3984758
Dissolved Iron (Fe)	mg/L	<0.10	0.10	3984758	<0.10	0.10	3984758
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	3984758	<0.00050	0.00050	3984758
Dissolved Magnesium (Mg)	mg/L	1.4	0.050	3984758	11	0.050	3984758
Dissolved Manganese (Mn)	mg/L	0.0023	0.0020	3984758	0.0047	0.0020	3984758
Dissolved Molybdenum (Mo)	mg/L	0.014	0.00050	3984758	0.0012	0.00050	3984758
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	3984758	0.0015	0.0010	3984758
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	3984758	<0.10	0.10	3984758
Dissolved Potassium (K)	mg/L	0.85	0.20	3984758	1.1	0.20	3984758
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	3984758	<0.0020	0.0020	3984758
Dissolved Silicon (Si)	mg/L	2.2	0.050	3984758	4.6	0.050	3984758
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	3984758	<0.00010	0.00010	3984758
Dissolved Sodium (Na)	mg/L	58	0.10	3984758	2.8	0.10	3984758
Dissolved Strontium (Sr)	mg/L	0.084	0.0010	3984758	0.18	0.0010	3984758
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	3984758	<0.000050	0.000050	3984758
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	3984758	<0.0050	0.0050	3984758
Dissolved Uranium (U)	mg/L	0.0037	0.00010	3984758	0.00034	0.00010	3984758
Dissolved Vanadium (V)	mg/L	0.0018	0.00050	3984758	<0.00050	0.00050	3984758
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	3984758	0.021	0.0050	3984758
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	3984758	<0.0010	0.0010	3984758
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABZ562		
Sampling Date		2015/04/10 13:14		
COC Number		508378-03-01		
	Units	WG-160900764 -20150410-RD11	RDL	QC Batch
Calculated Parameters				
Anion Sum	me/L	2.41	N/A	3978021
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	98	1.0	3978019
Calculated TDS	mg/L	130	1.0	3978024
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.3	1.0	3978019
Cation Sum	me/L	2.01	N/A	3978021
Hardness (CaCO3)	mg/L	39	1.0	3978619
Ion Balance (% Difference)	%	NC	N/A	3978020
Langelier Index (@ 20C)	N/A	-0.324		3978022
Langelier Index (@ 4C)	N/A	-0.574		3978023
Saturation pH (@ 20C)	N/A	8.46		3978022
Saturation pH (@ 4C)	N/A	8.71		3978023
Inorganics				
Total Ammonia-N	mg/L	0.066	0.050	3982101
Conductivity	umho/cm	190	1.0	3979251
Dissolved Organic Carbon	mg/L	3.5	0.20	3979036
Orthophosphate (P)	mg/L	<0.010	0.010	3979256
pH	pH	8.13	N/A	3979253
Dissolved Sulphate (SO4)	mg/L	6	1	3979255
Alkalinity (Total as CaCO3)	mg/L	99	1.0	3979250
Dissolved Chloride (Cl)	mg/L	9	1	3979254
Nitrite (N)	mg/L	<0.010	0.010	3979173
Nitrate (N)	mg/L	<0.10	0.10	3979173
Nitrate + Nitrite	mg/L	<0.10	0.10	3979173
Metals				
Dissolved Aluminum (Al)	mg/L	0.012	0.0050	3984758
Dissolved Antimony (Sb)	mg/L	0.00054	0.00050	3984758
Dissolved Arsenic (As)	mg/L	<0.0010	0.0010	3984758
Dissolved Barium (Ba)	mg/L	0.019	0.0020	3984758
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	3984758
Dissolved Boron (B)	mg/L	0.12	0.010	3984758
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	3984758
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable				

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ABZ562		
Sampling Date		2015/04/10 13:14		
COC Number		508378-03-01		
	Units	WG-160900764 -20150410-RD11	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	8.8	0.20	3984758
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	3984758
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	3984758
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	3984758
Dissolved Iron (Fe)	mg/L	<0.10	0.10	3984758
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	3984758
Dissolved Magnesium (Mg)	mg/L	4.1	0.050	3984758
Dissolved Manganese (Mn)	mg/L	0.0052	0.0020	3984758
Dissolved Molybdenum (Mo)	mg/L	0.0075	0.00050	3984758
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	3984758
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	3984758
Dissolved Potassium (K)	mg/L	2.3	0.20	3984758
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	3984758
Dissolved Silicon (Si)	mg/L	4.4	0.050	3984758
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	3984758
Dissolved Sodium (Na)	mg/L	27	0.10	3984758
Dissolved Strontium (Sr)	mg/L	0.21	0.0010	3984758
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	3984758
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	3984758
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	3984758
Dissolved Vanadium (V)	mg/L	<0.00050	0.00050	3984758
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	3984758
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	3984758
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		ABZ558	ABZ560	ABZ560	ABZ562		
Sampling Date		2015/04/10 11:25	2015/04/10 10:24	2015/04/10 10:24	2015/04/10 13:14		
COC Number		508378-03-01	508378-03-01	508378-03-01	508378-03-01		
	Units	WG-160900764 -20150410-RD08	WG-160900764-20150410- RD010	WG-160900764-20150410- RD010 Lab-Dup	WG-160900764 -20150410-RD11	RDL	QC Batch

Inorganics							
Acidity as CaCO3	mg/L	<10	15		<10	10	3980375
Total Dissolved Solids	mg/L	438	328		230	10	3979874
Fluoride (F-)	mg/L	1.4	<0.10		0.97	0.10	3979252
Free Cyanide	ug/L	<2	<2	<2	<2	2	3979099
Total Organic Carbon (TOC)	mg/L	3.3	0.71		4.3	0.20	3981450
Total Suspended Solids	mg/L	430	85		250	10	3979198
Turbidity	NTU	580	6.7		120	0.2	3979160

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

Maxxam ID		ABZ562		
Sampling Date		2015/04/10 13:14		
COC Number		508378-03-01		
	Units	WG-160900764 -20150410-RD11 Lab-Dup	RDL	QC Batch

Inorganics				
Acidity as CaCO3	mg/L	<10	10	3980375

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

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		ABZ558	ABZ560	ABZ562		
Sampling Date		2015/04/10 11:25	2015/04/10 10:24	2015/04/10 13:14		
COC Number		508378-03-01	508378-03-01	508378-03-01		
	Units	WG-160900764 -20150410-RD08	WG-160900764-20150410- RD010	WG-160900764 -20150410-RD11	RDL	QC Batch
Metals						
Chromium (VI)	ug/L	<0.50	0.57	<0.50	0.50	3979292
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	3984832
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PCBS (WATER)

Maxxam ID		ABZ558	ABZ560	ABZ562		
Sampling Date		2015/04/10 11:25	2015/04/10 10:24	2015/04/10 13:14		
COC Number		508378-03-01	508378-03-01	508378-03-01		
	Units	WG-160900764-20150410-RD08	WG-160900764-20150410-RD010	WG-160900764-20150410-RD11	RDL	QC Batch
PCBs						
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	0.05	3979792
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	0.05	3979792
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	0.05	3979792
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	0.05	3979792
Total PCB	ug/L	<0.05	<0.05	<0.05	0.05	3979792
Surrogate Recovery (%)						
Decachlorobiphenyl	%	70	65	71		3979792
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		ABZ558	ABZ560	ABZ560	ABZ562		
Sampling Date		2015/04/10 11:25	2015/04/10 10:24	2015/04/10 10:24	2015/04/10 13:14		
COC Number		508378-03-01	508378-03-01	508378-03-01	508378-03-01		
	Units	WG-160900764 -20150410-RD08	WG-160900764-20150410- RD010	WG-160900764-20150410- RD010 Lab-Dup	WG-160900764 -20150410-RD11	RDL	QC Batch
BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<25	<25		<25	25	3985230
F1 (C6-C10) - BTEX	ug/L	<25	<25		<25	25	3985230
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	3986244
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	3986244
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	3986244
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		3986244
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	103	103		109		3985230
4-Bromofluorobenzene	%	100	100		99		3985230
D10-Ethylbenzene	%	103	100		107		3985230
D4-1,2-Dichloroethane	%	96	97		100		3985230
o-Terphenyl	%	96	97	95	95		3986244
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		ABZ564		
Sampling Date		2015/04/10 11:20		
COC Number		508378-03-01		
	Units	FIELD BLANK	RDL	QC Batch
BTEX & F1 Hydrocarbons				
F1 (C6-C10)	ug/L	<25	25	3985230
F1 (C6-C10) - BTEX	ug/L	<25	25	3985230
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	3986244
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	3986244
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	3986244
Reached Baseline at C50	ug/L	Yes		3986244
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	105		3985230
4-Bromofluorobenzene	%	101		3985230
D10-Ethylbenzene	%	99		3985230
D4-1,2-Dichloroethane	%	99		3985230
o-Terphenyl	%	95		3986244
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABZ558	ABZ559	ABZ560		
Sampling Date		2015/04/10 11:25	2015/04/10 11:25	2015/04/10 10:24		
COC Number		508378-03-01	508378-03-01	508378-03-01		
	Units	WG-160900764 -20150410-RD08	WG-160900764-20150410- RD08A	WG-160900764-20150410- RD010	RDL	QC Batch
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	3990427
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	3990427
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	3990427
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	3990427
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	3990427
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	3990427
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	3990427
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	3990427
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	3990427
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	3990427
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	3990427
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	3990427
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	3990427
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	3990427
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	3990427
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	3990427
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	3990427
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	3990427
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	3990427
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	3990427
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	3990427
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	3990427
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	3990427
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	3990427
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	3990427
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	3990427
Diethyl phthalate	ug/L	<0.1	2.0	<0.1	0.1	3990427
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	3990427
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	3990427
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	3990427
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	0.1	3990427
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	3990427
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABZ558	ABZ559	ABZ560		
Sampling Date		2015/04/10 11:25	2015/04/10 11:25	2015/04/10 10:24		
COC Number		508378-03-01	508378-03-01	508378-03-01		
	Units	WG-160900764 -20150410-RD08	WG-160900764-20150410- RD08A	WG-160900764-20150410- RD010	RDL	QC Batch
p-Chloroaniline	ug/L	<1	<1	<1	1	3990427
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	3990427
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	3990427
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	3990427
Pyrene	ug/L	<0.05	<0.05	<0.05	0.05	3990427
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	0.28	3978987
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	68	64	59		3990427
2-Fluorobiphenyl	%	55	45 (1)	63		3990427
D14-Terphenyl (FS)	%	82	6.3 (1)	87		3990427
D5-Nitrobenzene	%	49 (1)	51	68		3990427
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 #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABZ561	ABZ562	ABZ563	ABZ564		
Sampling Date		2015/04/10 10:24	2015/04/10 13:14	2015/04/10 13:14	2015/04/10 11:20		
COC Number		508378-03-01	508378-03-01	508378-03-01	508378-03-01		
	Units	WG-160900764-20150410-RD10A	WG-160900764-20150410-RD11	WG-160900764-20150410-RD11A	FIELD BLANK	RDL	QC Batch

Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3990427
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3990427
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3990427
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3990427
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3990427
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3990427
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	3990427
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	3990427
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	3990427
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3990427
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3990427
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3990427
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3990427
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3990427
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3990427
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3990427
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	3990427
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3990427
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3990427
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3990427
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3990427
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3990427
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3990427
Bis(2-ethylhexyl)phthalate	ug/L	<1	2	<1	<1	1	3990427
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3990427
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3990427
Diethyl phthalate	ug/L	<0.1	<0.1	0.1	<0.1	0.1	3990427
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3990427
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3990427
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3990427
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3990427
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3990427

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABZ561	ABZ562	ABZ563	ABZ564		
Sampling Date		2015/04/10 10:24	2015/04/10 13:14	2015/04/10 13:14	2015/04/10 11:20		
COC Number		508378-03-01	508378-03-01	508378-03-01	508378-03-01		
	Units	WG-160900764-20150410- RD10A	WG-160900764 -20150410-RD11	WG-160900764-20150410- RD11A	FIELD BLANK	RDL	QC Batch
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	3990427
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3990427
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3990427
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3990427
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3990427
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	3978987
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	54	57	61	61		3990427
2-Fluorobiphenyl	%	61	64	68	49 (1)		3990427
D14-Terphenyl (FS)	%	11 (1)	85	15 (1)	87		3990427
D5-Nitrobenzene	%	62	55	72	52		3990427
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 #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
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Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABZ701		ABZ702		
Sampling Date		2015/04/10		2015/04/10		
COC Number		508378-03-01		508378-03-01		
	Units	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	0.1	61	1	3990427
1-Methylnaphthalene	ug/L	<0.2	0.2	82	1	3990427
2,4,5-Trichlorophenol	ug/L	<0.2	0.2	97	1	3990427
2,4,6-Trichlorophenol	ug/L	<0.2	0.2	97	1	3990427
2,4-Dichlorophenol	ug/L	<0.1	0.1	90	1	3990427
2,4-Dimethylphenol	ug/L	<0.5	0.5	53	1	3990427
2,4-Dinitrophenol	ug/L	<2	2	94	1	3990427
2,4-Dinitrotoluene	ug/L	<0.3	0.3	96	1	3990427
2,6-Dinitrotoluene	ug/L	<0.3	0.3	96	1	3990427
2-Chlorophenol	ug/L	<0.1	0.1	77	1	3990427
2-Methylnaphthalene	ug/L	<0.2	0.2	73	1	3990427
3,3'-Dichlorobenzidine	ug/L	<0.5	0.5	87	1	3990427
Acenaphthene	ug/L	<0.2	0.2	76	1	3990427
Acenaphthylene	ug/L	<0.2	0.2	79	1	3990427
Anthracene	ug/L	<0.05	0.05	22 (1)	1	3990427
Benzo(a)anthracene	ug/L	<0.05	0.05	10 (1)	1	3990427
Benzo(a)pyrene	ug/L	<0.01	0.01	8 (1)	1	3990427
Benzo(b/j)fluoranthene	ug/L	<0.05	0.05	8 (1)	1	3990427
Benzo(g,h,i)perylene	ug/L	<0.05	0.05	5 (1)	1	3990427
Benzo(k)fluoranthene	ug/L	<0.05	0.05	8 (1)	1	3990427
Biphenyl	ug/L	<0.1	0.1	74	1	3990427
Bis(2-chloroethyl)ether	ug/L	<0.5	0.5	85	1	3990427
Bis(2-chloroisopropyl)ether	ug/L	<0.5	0.5	75	1	3990427
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	9 (1)	1	3990427
Chrysene	ug/L	<0.05	0.05	8 (1)	1	3990427
Dibenz(a,h)anthracene	ug/L	<0.1	0.1	6 (1)	1	3990427
Diethyl phthalate	ug/L	<0.1	0.1	100	1	3990427
Dimethyl phthalate	ug/L	<0.1	0.1	99	1	3990427
Fluoranthene	ug/L	<0.2	0.2	24 (1)	1	3990427
Fluorene	ug/L	<0.2	0.2	61	1	3990427
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 #: B563828
Report Date: 2015/04/23

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O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ABZ701		ABZ702		
Sampling Date		2015/04/10		2015/04/10		
COC Number		508378-03-01		508378-03-01		
	Units	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	0.1	6 (1)	1	3990427
Naphthalene	ug/L	<0.2	0.2	73	1	3990427
p-Chloroaniline	ug/L	<1	1	90	1	3990427
Pentachlorophenol	ug/L	<0.1	0.1	84	1	3990427
Phenanthrene	ug/L	<0.1	0.1	42 (1)	1	3990427
Phenol	ug/L	<0.5	0.5	35	1	3990427
Pyrene	ug/L	<0.05	0.05	24 (1)	1	3990427
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.28	0.28			3978987
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	59		91		3990427
2-Fluorobiphenyl	%	73		69		3990427
D14-Terphenyl (FS)	%	8.4 (1)		22 (1)		3990427
D5-Nitrobenzene	%	78		78		3990427
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 #: B563828
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Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ABZ558	ABZ560	ABZ562	ABZ564		
Sampling Date		2015/04/10 11:25	2015/04/10 10:24	2015/04/10 13:14	2015/04/10 11:20		
COC Number		508378-03-01	508378-03-01	508378-03-01	508378-03-01		
	Units	WG-160900764 -20150410-RD08	WG-160900764-20150410- RD010	WG-160900764 -20150410-RD11	FIELD BLANK	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3978643
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	3979204
Benzene	ug/L	<0.20	<0.20	0.23	<0.20	0.20	3979204
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	3979204
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	3979204
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	0.30	3979204
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	3979204
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	3979204
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	3979204
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	3979204
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	10	3979204
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: B563828
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Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
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Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ABZ558	ABZ560	ABZ562	ABZ564		
Sampling Date		2015/04/10 11:25	2015/04/10 10:24	2015/04/10 13:14	2015/04/10 11:20		
COC Number		508378-03-01	508378-03-01	508378-03-01	508378-03-01		
	Units	WG-160900764 -20150410-RD08	WG-160900764-20150410- RD010	WG-160900764 -20150410-RD11	FIELD BLANK	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
Toluene	ug/L	<0.20	<0.20	0.58	<0.20	0.20	3979204
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
p+m-Xylene	ug/L	<0.20	<0.20	0.44	<0.20	0.20	3979204
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3979204
Total Xylenes	ug/L	<0.20	<0.20	0.44	<0.20	0.20	3979204
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3979204
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	97	96	96	96		3979204
D4-1,2-Dichloroethane	%	97	97	97	96		3979204
D8-Toluene	%	98	98	96	98		3979204
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
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Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABZ558
Sample ID: WG-160900764-20150410-RD08
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3978987	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic
Acidity as CaCO3 in liquid		3980375	2015/04/13	2015/04/20	Grace Sison
Alkalinity	AT	3989715	N/A	2015/04/21	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3978019	N/A	2015/04/14	Automated Statchk
1,3-Dichloropropene Sum	CALC	3978643	N/A	2015/04/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	3989711	N/A	2015/04/21	Alina Dobreanu
Conductivity	AT	3979251	N/A	2015/04/13	Surinder Rai
Chromium (VI) in Water	IC	3979292	N/A	2015/04/15	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3979099	N/A	2015/04/16	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3979036	N/A	2015/04/14	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3985230	N/A	2015/04/16	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986244	2015/04/17	2015/04/18	(Kent) Maolin Li
Fluoride	ISE	3979252	2015/04/11	2015/04/13	Surinder Rai
Hardness (calculated as CaCO3)		3978619	N/A	2015/04/17	Automated Statchk
Mercury in Water by CVAA	CV/AA	3984832	2015/04/20	2015/04/21	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3984758	N/A	2015/04/17	Prempal Bhatti
Ion Balance (% Difference)	CALC	3978020	N/A	2015/04/17	Automated Statchk
Anion and Cation Sum	CALC	3978021	N/A	2015/04/17	Automated Statchk
Total Ammonia-N	LACH/NH4	3982101	N/A	2015/04/17	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3979173	N/A	2015/04/17	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3979792	2015/04/13	2015/04/14	Sarah Huang
pH	AT	3979253	N/A	2015/04/13	Surinder Rai
Orthophosphate	KONE	3979256	N/A	2015/04/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3978022	N/A	2015/04/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3978023	N/A	2015/04/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3989713	N/A	2015/04/21	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	3978024	N/A	2015/04/17	Automated Statchk
Total Dissolved Solids	BAL	3979874	N/A	2015/04/13	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	3981450	N/A	2015/04/15	Anastasia Hamanov
Total Suspended Solids	BAL	3979198	N/A	2015/04/12	Subhashchandra Patel
Turbidity	AT	3979160	N/A	2015/04/13	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3979204	N/A	2015/04/13	Xueming Jiang

Maxxam ID: ABZ559
Sample ID: WG-160900764-20150410-RD08A
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3978987	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABZ560
Sample ID: WG-160900764-20150410-RD010
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3978987	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic
Acidity as CaCO3 in liquid		3980375	2015/04/13	2015/04/20	Grace Sison
Alkalinity	AT	3979250	N/A	2015/04/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3978019	N/A	2015/04/14	Automated Statchk
1,3-Dichloropropene Sum	CALC	3978643	N/A	2015/04/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	3979254	N/A	2015/04/15	Deonarine Ramnarine
Conductivity	AT	3979251	N/A	2015/04/13	Surinder Rai
Chromium (VI) in Water	IC	3979292	N/A	2015/04/15	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3979099	N/A	2015/04/16	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3979036	N/A	2015/04/14	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3985230	N/A	2015/04/16	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986244	2015/04/17	2015/04/18	(Kent) Maolin Li
Fluoride	ISE	3979252	2015/04/11	2015/04/13	Surinder Rai
Hardness (calculated as CaCO3)		3978619	N/A	2015/04/17	Automated Statchk
Mercury in Water by CVAA	CV/AA	3984832	2015/04/20	2015/04/21	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3984758	N/A	2015/04/17	Prempal Bhatti
Ion Balance (% Difference)	CALC	3978020	N/A	2015/04/17	Automated Statchk
Anion and Cation Sum	CALC	3978021	N/A	2015/04/17	Automated Statchk
Total Ammonia-N	LACH/NH4	3982101	N/A	2015/04/17	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3979173	N/A	2015/04/17	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3979792	2015/04/13	2015/04/14	Sarah Huang
pH	AT	3979253	N/A	2015/04/13	Surinder Rai
Orthophosphate	KONE	3979256	N/A	2015/04/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3978022	N/A	2015/04/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3978023	N/A	2015/04/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3979255	N/A	2015/04/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	3978024	N/A	2015/04/17	Automated Statchk
Total Dissolved Solids	BAL	3979874	N/A	2015/04/13	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	3981450	N/A	2015/04/15	Anastasia Hamanov
Total Suspended Solids	BAL	3979198	N/A	2015/04/12	Subhashchandra Patel
Turbidity	AT	3979160	N/A	2015/04/13	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3979204	N/A	2015/04/13	Xueming Jiang

Maxxam ID: ABZ560 Dup
Sample ID: WG-160900764-20150410-RD010
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH/CN	3979099	N/A	2015/04/16	Xuanhong Qiu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986244	2015/04/17	2015/04/18	(Kent) Maolin Li

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABZ561
Sample ID: WG-160900764-20150410-RD10A
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3978987	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/23	Milijana Avramovic

Maxxam ID: ABZ562
Sample ID: WG-160900764-20150410-RD11
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3978987	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/23	Milijana Avramovic
Acidity as CaCO3 in liquid		3980375	2015/04/13	2015/04/20	Grace Sison
Alkalinity	AT	3979250	N/A	2015/04/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3978019	N/A	2015/04/14	Automated Statchk
1,3-Dichloropropene Sum	CALC	3978643	N/A	2015/04/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	3979254	N/A	2015/04/15	Deonarine Ramnarine
Conductivity	AT	3979251	N/A	2015/04/13	Surinder Rai
Chromium (VI) in Water	IC	3979292	N/A	2015/04/15	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3979099	N/A	2015/04/16	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3979036	N/A	2015/04/14	Elsamma Alex
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3985230	N/A	2015/04/17	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986244	2015/04/17	2015/04/18	(Kent) Maolin Li
Fluoride	ISE	3979252	2015/04/11	2015/04/13	Surinder Rai
Hardness (calculated as CaCO3)		3978619	N/A	2015/04/17	Automated Statchk
Mercury in Water by CVAA	CV/AA	3984832	2015/04/20	2015/04/21	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3984758	N/A	2015/04/17	Prempal Bhatti
Ion Balance (% Difference)	CALC	3978020	N/A	2015/04/17	Automated Statchk
Anion and Cation Sum	CALC	3978021	N/A	2015/04/17	Automated Statchk
Total Ammonia-N	LACH/NH4	3982101	N/A	2015/04/17	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3979173	N/A	2015/04/17	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3979792	2015/04/13	2015/04/14	Sarah Huang
pH	AT	3979253	N/A	2015/04/13	Surinder Rai
Orthophosphate	KONE	3979256	N/A	2015/04/13	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3978022	N/A	2015/04/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3978023	N/A	2015/04/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3979255	N/A	2015/04/13	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	3978024	N/A	2015/04/17	Automated Statchk
Total Dissolved Solids	BAL	3979874	N/A	2015/04/13	Alpa Patel
Total Organic Carbon (TOC)	TOCV/NDIR	3981450	N/A	2015/04/15	Anastasia Hamanov
Total Suspended Solids	BAL	3979198	N/A	2015/04/12	Subhashchandra Patel
Turbidity	AT	3979160	N/A	2015/04/13	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3979204	N/A	2015/04/13	Xueming Jiang

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ABZ562 Dup
Sample ID: WG-160900764-20150410-RD11
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity as CaCO3 in liquid		3980375	2015/04/13	2015/04/20	Grace Sison

Maxxam ID: ABZ563
Sample ID: WG-160900764-20150410-RD11A
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3978987	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/23	Milijana Avramovic

Maxxam ID: ABZ564
Sample ID: FIELD BLANK
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3978987	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	3978643	N/A	2015/04/15	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3985230	N/A	2015/04/16	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986244	2015/04/17	2015/04/18	(Kent) Maolin Li
Volatile Organic Compounds in Water	GC/MS	3979204	N/A	2015/04/13	Xueming Jiang

Maxxam ID: ABZ701
Sample ID: FILTERED BLANK
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3978987	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic

Maxxam ID: ABZ702
Sample ID: FILTERED SPIKE
Matrix: Water

Collected: 2015/04/10
Shipped:
Received: 2015/04/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	3990427	2015/04/21	2015/04/22	Milijana Avramovic

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

GENERAL COMMENTS

Sample ABZ558-01 : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Acidity Test: Sample initial pH was (>8.3), therefore acidity was not detected (ND).
Elevated ion balance was confirmed by re-analysis.

Sample ABZ560-01 : Total/Dissolved Chromium < Hexavalent Chromium: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

Sample ABZ562-01 : Acidity Test: Sample initial pH was (>8.3), therefore acidity was not detected (ND).

Sample ABZ702-01 : ABN analysis: Data are reported as percentage recoveries.

Results relate only to the items tested.

Maxxam Job #: B563828
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3979204	4-Bromofluorobenzene	2015/04/13	99	70 - 130	100	70 - 130	99	%				
3979204	D4-1,2-Dichloroethane	2015/04/13	96	70 - 130	100	70 - 130	97	%				
3979204	D8-Toluene	2015/04/13	101	70 - 130	100	70 - 130	98	%				
3979792	Decachlorobiphenyl	2015/04/13	102	60 - 130	90	60 - 130	105	%				
3985230	1,4-Difluorobenzene	2015/04/16	105	70 - 130	101	70 - 130	102	%				
3985230	4-Bromofluorobenzene	2015/04/16	102	70 - 130	105	70 - 130	101	%				
3985230	D10-Ethylbenzene	2015/04/16	99	70 - 130	97	70 - 130	96	%				
3985230	D4-1,2-Dichloroethane	2015/04/16	99	70 - 130	107	70 - 130	107	%				
3986244	o-Terphenyl	2015/04/18	114	60 - 130	97	60 - 130	96	%				
3990427	2,4,6-Tribromophenol	2015/04/22			90	50 - 130	66	%				
3990427	2-Fluorobiphenyl	2015/04/22			77	50 - 130	84	%				
3990427	D14-Terphenyl (FS)	2015/04/22			85	50 - 130	93	%				
3990427	D5-Nitrobenzene	2015/04/22			71	50 - 130	90	%				
3979036	Dissolved Organic Carbon	2015/04/13	98	80 - 120	99	80 - 120	<0.20	mg/L	2.0	20		
3979099	Free Cyanide	2015/04/16	109	80 - 120	109	80 - 120	<2	ug/L	NC	20		
3979160	Turbidity	2015/04/13			99	85 - 115	<0.2	NTU	NC	20		
3979173	Nitrate (N)	2015/04/17	NC	80 - 120	98	80 - 120	<0.10	mg/L	1.6	25		
3979173	Nitrite (N)	2015/04/17	NC	80 - 120	98	80 - 120	<0.010	mg/L	1.3	25		
3979198	Total Suspended Solids	2015/04/12					<10	mg/L	NC	25	98	85 - 115
3979204	1,1,1,2-Tetrachloroethane	2015/04/13	104	70 - 130	106	70 - 130	<0.50	ug/L	NC	30		
3979204	1,1,1-Trichloroethane	2015/04/13	98	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
3979204	1,1,2,2-Tetrachloroethane	2015/04/13	99	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
3979204	1,1,2-Trichloroethane	2015/04/13	95	70 - 130	99	70 - 130	<0.50	ug/L	0.80	30		
3979204	1,1-Dichloroethane	2015/04/13	100	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
3979204	1,1-Dichloroethylene	2015/04/13	108	70 - 130	110	70 - 130	<0.20	ug/L	3.7	30		
3979204	1,2-Dichlorobenzene	2015/04/13	102	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
3979204	1,2-Dichloroethane	2015/04/13	98	70 - 130	102	70 - 130	<0.50	ug/L	NC	30		
3979204	1,2-Dichloropropane	2015/04/13	97	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
3979204	1,3-Dichlorobenzene	2015/04/13	102	70 - 130	102	70 - 130	<0.50	ug/L	NC	30		
3979204	1,4-Dichlorobenzene	2015/04/13	101	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3979204	Acetone (2-Propanone)	2015/04/13	97	60 - 140	103	60 - 140	<10	ug/L	NC	30		

Maxxam Job #: B563828
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3979204	Benzene	2015/04/13	97	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
3979204	Bromodichloromethane	2015/04/13	98	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3979204	Bromoform	2015/04/13	105	70 - 130	109	70 - 130	<1.0	ug/L	NC	30		
3979204	Bromomethane	2015/04/13	98	60 - 140	96	60 - 140	<0.50	ug/L	NC	30		
3979204	Carbon Tetrachloride	2015/04/13	106	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
3979204	Chlorobenzene	2015/04/13	97	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
3979204	Chloroform	2015/04/13	100	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
3979204	cis-1,2-Dichloroethylene	2015/04/13	NC	70 - 130	99	70 - 130	<0.50	ug/L	2.7	30		
3979204	cis-1,3-Dichloropropene	2015/04/13	92	70 - 130	90	70 - 130	<0.30	ug/L	NC	30		
3979204	Dibromochloromethane	2015/04/13	104	70 - 130	107	70 - 130	<0.50	ug/L	NC	30		
3979204	Dichlorodifluoromethane (FREON 12)	2015/04/13	96	60 - 140	96	60 - 140	<1.0	ug/L	NC	30		
3979204	Ethylbenzene	2015/04/13	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
3979204	Ethylene Dibromide	2015/04/13	95	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
3979204	Hexane	2015/04/13	105	70 - 130	107	70 - 130	<1.0	ug/L	NC	30		
3979204	Methyl Ethyl Ketone (2-Butanone)	2015/04/13	97	60 - 140	104	60 - 140	<10	ug/L	NC	30		
3979204	Methyl Isobutyl Ketone	2015/04/13	95	70 - 130	101	70 - 130	<5.0	ug/L	NC	30		
3979204	Methyl t-butyl ether (MTBE)	2015/04/13	93	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
3979204	Methylene Chloride(Dichloromethane)	2015/04/13	95	70 - 130	98	70 - 130	<2.0	ug/L	NC	30		
3979204	o-Xylene	2015/04/13	93	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
3979204	p+m-Xylene	2015/04/13	98	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
3979204	Styrene	2015/04/13	104	70 - 130	107	70 - 130	<0.50	ug/L	NC	30		
3979204	Tetrachloroethylene	2015/04/13	108	70 - 130	109	70 - 130	<0.20	ug/L	5.2	30		
3979204	Toluene	2015/04/13	95	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
3979204	Total Xylenes	2015/04/13					<0.20	ug/L	NC	30		
3979204	trans-1,2-Dichloroethylene	2015/04/13	101	70 - 130	103	70 - 130	<0.50	ug/L	1.9	30		
3979204	trans-1,3-Dichloropropene	2015/04/13	91	70 - 130	84	70 - 130	<0.40	ug/L	NC	30		
3979204	Trichloroethylene	2015/04/13	101	70 - 130	104	70 - 130	<0.20	ug/L	1.8	30		
3979204	Trichlorofluoromethane (FREON 11)	2015/04/13	99	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3979204	Vinyl Chloride	2015/04/13	98	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
3979250	Alkalinity (Total as CaCO3)	2015/04/13			93	85 - 115	<1.0	mg/L	0.76	25		

Maxxam Job #: B563828
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3979251	Conductivity	2015/04/13			100	85 - 115	<1.0	umho/cm	0	25		
3979252	Fluoride (F-)	2015/04/13	104	80 - 120	94	80 - 120	<0.10	mg/L	NC	20		
3979253	pH	2015/04/13			102	98 - 103						
3979254	Dissolved Chloride (Cl)	2015/04/15	NC	80 - 120	104	80 - 120	<1	mg/L	3.5	20		
3979255	Dissolved Sulphate (SO4)	2015/04/13	98	75 - 125	100	80 - 120	<1	mg/L	0.28	20		
3979256	Orthophosphate (P)	2015/04/13	108	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
3979292	Chromium (VI)	2015/04/15	96	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
3979792	Aroclor 1242	2015/04/13					<0.05	ug/L	NC	30		
3979792	Aroclor 1248	2015/04/13					<0.05	ug/L	NC	30		
3979792	Aroclor 1254	2015/04/13					<0.05	ug/L	NC	30		
3979792	Aroclor 1260	2015/04/13	96	60 - 130	90	60 - 130	<0.05	ug/L	NC	30		
3979792	Total PCB	2015/04/13	96	60 - 130	90	60 - 130	<0.05	ug/L	NC	40		
3979874	Total Dissolved Solids	2015/04/13					<10	mg/L	0.65	25	100	90 - 110
3980375	Acidity as CaCO3	2015/04/20					<10	mg/L	NC	25		
3981450	Total Organic Carbon (TOC)	2015/04/14	98	80 - 120	98	80 - 120	<0.20	mg/L	NC	20		
3982101	Total Ammonia-N	2015/04/17	94	80 - 120	96	85 - 115	<0.050	mg/L	NC	20		
3984758	Dissolved Aluminum (Al)	2015/04/17	97	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20		
3984758	Dissolved Antimony (Sb)	2015/04/17	107	80 - 120	106	80 - 120	<0.00050	mg/L				
3984758	Dissolved Arsenic (As)	2015/04/17	102	80 - 120	103	80 - 120	<0.0010	mg/L				
3984758	Dissolved Barium (Ba)	2015/04/17	95	80 - 120	96	80 - 120	<0.0020	mg/L				
3984758	Dissolved Beryllium (Be)	2015/04/17	99	80 - 120	99	80 - 120	<0.00050	mg/L				
3984758	Dissolved Boron (B)	2015/04/17	98	80 - 120	101	80 - 120	<0.010	mg/L	3.7	20		
3984758	Dissolved Cadmium (Cd)	2015/04/17	102	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20		
3984758	Dissolved Calcium (Ca)	2015/04/17	NC	80 - 120	102	80 - 120	<0.20	mg/L	1.7	20		
3984758	Dissolved Chromium (Cr)	2015/04/17	98	80 - 120	101	80 - 120	<0.0050	mg/L	NC	20		
3984758	Dissolved Cobalt (Co)	2015/04/17	97	80 - 120	100	80 - 120	<0.00050	mg/L				
3984758	Dissolved Copper (Cu)	2015/04/17	94	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
3984758	Dissolved Iron (Fe)	2015/04/17	101	80 - 120	104	80 - 120	<0.10	mg/L	1.5	20		
3984758	Dissolved Lead (Pb)	2015/04/17	96	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
3984758	Dissolved Magnesium (Mg)	2015/04/17	NC	80 - 120	105	80 - 120	<0.050	mg/L	0.77	20		

Maxxam Job #: B563828
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3984758	Dissolved Manganese (Mn)	2015/04/17	100	80 - 120	104	80 - 120	<0.0020	mg/L	2.7	20		
3984758	Dissolved Molybdenum (Mo)	2015/04/17	105	80 - 120	102	80 - 120	<0.00050	mg/L				
3984758	Dissolved Nickel (Ni)	2015/04/17	95	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
3984758	Dissolved Phosphorus (P)	2015/04/17	96	80 - 120	100	80 - 120	<0.10	mg/L				
3984758	Dissolved Potassium (K)	2015/04/17	99	80 - 120	104	80 - 120	<0.20	mg/L	2.6	20		
3984758	Dissolved Selenium (Se)	2015/04/17	99	80 - 120	101	80 - 120	<0.0020	mg/L				
3984758	Dissolved Silicon (Si)	2015/04/17	93	80 - 120	101	80 - 120	<0.050	mg/L				
3984758	Dissolved Silver (Ag)	2015/04/17	85	80 - 120	100	80 - 120	<0.00010	mg/L				
3984758	Dissolved Sodium (Na)	2015/04/17	NC	80 - 120	105	80 - 120	<0.10	mg/L	0.37	20		
3984758	Dissolved Strontium (Sr)	2015/04/17	NC	80 - 120	106	80 - 120	<0.0010	mg/L				
3984758	Dissolved Thallium (Tl)	2015/04/17	95	80 - 120	99	80 - 120	<0.000050	mg/L				
3984758	Dissolved Titanium (Ti)	2015/04/17	99	80 - 120	101	80 - 120	<0.0050	mg/L				
3984758	Dissolved Uranium (U)	2015/04/17	100	80 - 120	100	80 - 120	<0.00010	mg/L				
3984758	Dissolved Vanadium (V)	2015/04/17	99	80 - 120	100	80 - 120	<0.00050	mg/L				
3984758	Dissolved Zinc (Zn)	2015/04/17	101	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20		
3984758	Dissolved Zirconium (Zr)	2015/04/17	107	80 - 120	106	80 - 120	<0.0010	mg/L				
3984832	Mercury (Hg)	2015/04/21	105	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20		
3985230	F1 (C6-C10) - BTEX	2015/04/16					<25	ug/L	NC	30		
3985230	F1 (C6-C10)	2015/04/16	90	70 - 130	98	70 - 130	<25	ug/L	NC	30		
3986244	F2 (C10-C16 Hydrocarbons)	2015/04/18	103	50 - 130	96	60 - 130	<100	ug/L	NC	30		
3986244	F3 (C16-C34 Hydrocarbons)	2015/04/18	106	50 - 130	99	60 - 130	<200	ug/L	NC	30		
3986244	F4 (C34-C50 Hydrocarbons)	2015/04/18	108	50 - 130	100	60 - 130	<200	ug/L	NC	30		
3989711	Dissolved Chloride (Cl)	2015/04/21	NC	80 - 120	103	80 - 120	<1	mg/L	0.30	20		
3989713	Dissolved Sulphate (SO4)	2015/04/21	NC	75 - 125	104	80 - 120	<1	mg/L	4.2	20		
3989715	Alkalinity (Total as CaCO3)	2015/04/21			95	85 - 115	<1.0	mg/L	0.16	25		
3990427	1,2,4-Trichlorobenzene	2015/04/22			60	40 - 130	<0.1	ug/L	4.3	30		
3990427	1-Methylnaphthalene	2015/04/22			83	50 - 130	<0.2	ug/L	1.9	30		
3990427	2,4,5-Trichlorophenol	2015/04/22			95	50 - 130	<0.2	ug/L	2.5	30		
3990427	2,4,6-Trichlorophenol	2015/04/22			93	50 - 130	<0.2	ug/L	1.8	30		
3990427	2,4-Dichlorophenol	2015/04/22			83	50 - 130	<0.1	ug/L	12	30		
3990427	2,4-Dimethylphenol	2015/04/22			31	30 - 130	<0.5	ug/L	21	30		

Maxxam Job #: B563828
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3990427	2,4-Dinitrophenol	2015/04/22			100	30 - 130	<2	ug/L	1.6	30		
3990427	2,4-Dinitrotoluene	2015/04/22			92	50 - 130	<0.3	ug/L	1.3	30		
3990427	2,6-Dinitrotoluene	2015/04/22			91	50 - 130	<0.3	ug/L	1.2	30		
3990427	2-Chlorophenol	2015/04/22			66	50 - 130	<0.1	ug/L	6.4	30		
3990427	2-Methylnaphthalene	2015/04/22			76	50 - 130	<0.2	ug/L	1.8	30		
3990427	3,3'-Dichlorobenzidine	2015/04/22			88	30 - 130	<0.5	ug/L	2.1	30		
3990427	Acenaphthene	2015/04/22			88	50 - 130	<0.2	ug/L	0.72	30		
3990427	Acenaphthylene	2015/04/22			83	50 - 130	<0.2	ug/L	0.66	30		
3990427	Anthracene	2015/04/22			93	50 - 130	<0.05	ug/L	0.53	30		
3990427	Benzo(a)anthracene	2015/04/22			99	50 - 130	<0.05	ug/L	1.1	30		
3990427	Benzo(a)pyrene	2015/04/22			106	50 - 130	<0.01	ug/L	1.3	30		
3990427	Benzo(b/j)fluoranthene	2015/04/22			106	50 - 130	<0.05	ug/L	0.075	30		
3990427	Benzo(g,h,i)perylene	2015/04/22			81	50 - 130	<0.05	ug/L	5.5	30		
3990427	Benzo(k)fluoranthene	2015/04/22			104	50 - 130	<0.05	ug/L	2.6	30		
3990427	Biphenyl	2015/04/22			82	50 - 130	<0.1	ug/L	0.71	30		
3990427	Bis(2-chloroethyl)ether	2015/04/22			74	50 - 130	<0.5	ug/L	5.9	30		
3990427	Bis(2-chloroisopropyl)ether	2015/04/22			67	50 - 130	<0.5	ug/L	5.8	30		
3990427	Bis(2-ethylhexyl)phthalate	2015/04/22			103	50 - 130	<1	ug/L	0.99	30		
3990427	Chrysene	2015/04/22			102	50 - 130	<0.05	ug/L	1.2	30		
3990427	Dibenz(a,h)anthracene	2015/04/22			86	50 - 130	<0.1	ug/L	5.1	30		
3990427	Diethyl phthalate	2015/04/22			101	50 - 130	<0.1	ug/L	0.58	30		
3990427	Dimethyl phthalate	2015/04/22			98	50 - 130	<0.1	ug/L	0.84	30		
3990427	Fluoranthene	2015/04/22			100	50 - 130	<0.2	ug/L	0.76	30		
3990427	Fluorene	2015/04/22			91	50 - 130	<0.2	ug/L	1.5	30		
3990427	Indeno(1,2,3-cd)pyrene	2015/04/22			87	50 - 130	<0.1	ug/L	4.7	30		
3990427	Naphthalene	2015/04/22			65	50 - 130	<0.2	ug/L	3.7	30		
3990427	p-Chloroaniline	2015/04/22			78	30 - 130	<1	ug/L	11	30		
3990427	Pentachlorophenol	2015/04/22			72	50 - 130	<0.1	ug/L	12	30		
3990427	Phenanthrene	2015/04/22			94	50 - 130	<0.1	ug/L	0.68	30		
3990427	Phenol	2015/04/22			31	30 - 130	<0.5	ug/L	6.5 (1)	30		

Maxxam Job #: B563828
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3990427	Pyrene	2015/04/22			107	50 - 130	<0.05	ug/L	0.075	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.

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.

Maxxam Job #: B563828
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-MONITORING WELLS
Your P.O. #: 16400NR
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).

Cristina Carriere

Cristina Carriere, Scientific Services

Eva Pranjic



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

Grace M. Sison



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.

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #9197 Stantec Consulting Ltd	Company Name: Accounts Payable	Quotation #: B48218	Maxxam Job #:	Task #: 160900764	Bottle Order #:	508378	
Contact Name: 49 Frederick St	Contact Name: Kitchener ON N2H 6M7	Project #: CLARINGTON TS-MONITORING W	COC #:	Profit Centre: KD + DM	Project Manager:	Krystal Seedial	
Address: (519) 579-4410 Fax (519) 579-6733	Address: Stantec.Accounts.Payable.Invoices@Stantec.com	Site #: AS PER REQUEST	C#508378-03-01				
Phone: (519) 579-4410	Fax: (519) 579-6733	Sampled By: KD + DM					

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:	
Regulation 153 (2011)			Other Regulations		Special Instructions	Field Filtered (please circle)	Acidity, Cu, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	0 Reg 153 Petroleum Hydrocarbons (Water)	0 Reg 153 PCBs (Water)	0 Reg 153 Volatile Organics (Water)	RCAs - Comprehensive (field filtered metals)	SVOCs	Lab Filtered SVOCs	# of Bottles	Comments
<input checked="" type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw		Y	X	X	X	X	X	X	X			
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw		Y	X	X	X	X	X	X	X			
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality		Y	X	X	X	X	X	X	X			
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO			Y	X	X	X	X	X	X	X			
<input type="checkbox"/> Other			<input type="checkbox"/> Other			Y	X	X	X	X	X	X	X			
Include Criteria on Certificate of Analysis (Y/N)?																
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix												
1	WG-160900764-201504 10-RD08	Apr 10/15	11:25	GW	Y	X	X	X	X	X	X	X	X			
2	WG-160900764-201504 10-RD08A		11:25		Y	X	X	X	X	X	X	X	X			
3	WG-160900764-201504 10-RD09		10:24		Y	X	X	X	X	X	X	X	X			
4	WG-160900764-201504 10-RD09A		10:24		Y	X	X	X	X	X	X	X	X			
5	WG-160900764-201504 10-RD11		13:14		Y	X	X	X	X	X	X	X	X			
6	WG-160900764-201504 10-RD11A		13:14		Y	X	X	X	X	X	X	X	X			
7	WG-160900764-201504 FIELD BLANK	"	11:20	-				X		X		X				
8	WG-160900764-201504															
9	WG-160900764-201504															
10	WG-160900764-201504															

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.

Regular (Standard) TAT

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

10-Apr-15 16:00
Krystal Seedial
B563828

JT3 ENV-690

* 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				
Dan Martin		15/04/10	15:55	RACHEL DELLIN		2015/04/10	16:00		Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
										7/6/6 6/5/6 9/10/9 7/5/5	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

Attention: Lesley Veale, Brant Gill,

Stantec Consulting Ltd - Clarington
ON
Canada

Your P.O. #: 16400NR
Your Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your C.O.C. #: 508378-04-01, 508387-01-01

Report Date: 2015/04/23
Report #: R3399271
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B565881

Received: 2015/04/14, 13:50

Sample Matrix: Water
Samples Received: 15

Analyses	Quantity	Date		Laboratory Method	Reference
		Extracted	Analyzed		
Methylnaphthalene Sum	2	N/A	2015/04/21	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum	12	N/A	2015/04/22	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	15	2015/04/20	2015/04/21	CAM SOP-00301	EPA 8270 m
Acidity as CaCO3 in liquid (1, 2)	8	2015/04/15	2015/04/21	SLA SOP-00100	APHA SM2310B (Mod)
Alkalinity	8	N/A	2015/04/16	CAM SOP-00448	SM 22 2320 B m
Carbonate, Bicarbonate and Hydroxide	8	N/A	2015/04/17	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	6	N/A	2015/04/17	CAM SOP-00226	EPA 8260C m
1,3-Dichloropropene Sum	2	N/A	2015/04/18	CAM SOP-00226	EPA 8260C m
Chloride by Automated Colourimetry	8	N/A	2015/04/16	CAM SOP-00463	EPA 325.2 m
Conductivity	8	N/A	2015/04/16	CAM SOP-00414	SM 22 2510 m
Chromium (VI) in Water	8	N/A	2015/04/16	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	8	N/A	2015/04/17	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (3)	5	N/A	2015/04/17	CAM SOP-00446	SM 22 5310 B m
Petroleum Hydro. CCME F1 & BTEX in Water	8	N/A	2015/04/18	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water	8	2015/04/17	2015/04/18	CAM SOP-00316	CCME PHC-CWS m
Fluoride	8	2015/04/15	2015/04/16	CAM SOP-00449	SM 22 4500-F C m
Hardness (calculated as CaCO3)	3	N/A	2015/04/17	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	5	N/A	2015/04/22	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	1	2015/04/17	2015/04/17	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	7	2015/04/20	2015/04/20	CAM SOP-00453	EPA 7470A m
Lab Filtered Metals Analysis by ICP	3	2015/04/16	2015/04/16	CAM SOP-00408	EPA 6010C m
Dissolved Metals by ICPMS	5	N/A	2015/04/22	CAM SOP-00447	EPA 6020A m
Total Metals Analysis by ICPMS	3	N/A	2015/04/20	CAM SOP-00447	EPA 6020A m
Ion Balance (% Difference)	5	N/A	2015/04/22		
Anion and Cation Sum	5	N/A	2015/04/22		
Total Ammonia-N	1	N/A	2015/04/17	CAM SOP-00441	EPA GS I-2522-90 m
Total Ammonia-N	7	N/A	2015/04/20	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (4)	8	N/A	2015/04/19	CAM SOP-00440	SM 22 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	1	2015/04/15	2015/04/15	CAM SOP-00309	EPA 8082A m
Polychlorinated Biphenyl in Water	7	2015/04/15	2015/04/16	CAM SOP-00309	EPA 8082A m

Attention: Lesley Veale, Brant Gill,

Stantec Consulting Ltd - Clarington
ON
Canada

Your P.O. #: 16400NR
Your Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND
WATER
Your C.O.C. #: 508378-04-01, 508387-01-01

Report Date: 2015/04/23
Report #: R3399271
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B565881

Received: 2015/04/14, 13:50

Sample Matrix: Water
Samples Received: 15

Analyses	Date		Laboratory Method	Reference
	Quantity	Date Extracted		
pH	8	N/A	2015/04/16 CAM SOP-00413	SM 4500H+ B m
Orthophosphate	8	N/A	2015/04/16 CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	3	N/A	2015/04/17	
Sat. pH and Langelier Index (@ 20C)	5	N/A	2015/04/22	
Sat. pH and Langelier Index (@ 4C)	3	N/A	2015/04/17	
Sat. pH and Langelier Index (@ 4C)	5	N/A	2015/04/22	
Sulphate by Automated Colourimetry	8	N/A	2015/04/16 CAM SOP-00464	EPA 375.4 m
Total Organic Carbon (TOC) (5)	8	N/A	2015/04/16 CAM SOP-00446	SM 22 5310B m
Total Phosphorus (Colourimetric)	3	2015/04/20	2015/04/20 CAM SOP-00407	SM 4500 P B H m
Total Suspended Solids	8	N/A	2015/04/15 CAM SOP-00428	SM 22 2540D m
Turbidity	8	N/A	2015/04/16 CAM SOP-00417	SM 22 2130 B m
Volatile Organic Compounds in Water	8	N/A	2015/04/17 CAM SOP 00228	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.

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 the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

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.

Attention: Lesley Veale, Brant Gill,

Stantec Consulting Ltd - Clarington
ON
Canada

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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B565881

Received: 2015/04/14, 13:50

- (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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (5) 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.
Krystal Seedial, Project Manager
Email: KSeedial@maxxam.ca
Phone# (905) 817-5700

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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 #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ACK469	ACK469	ACK471		ACK473		
Sampling Date		2015/04/13 12:30	2015/04/13 12:30	2015/04/13 14:10		2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01		508378-04-01		
	Units	WG-160900764 -20150413-RD12	WG-160900764 -20150413-RD12 Lab-Dup	WG-160900764 -20150413-RD13	QC Batch	WG-160900764 -20150414-RD14	RDL	QC Batch

Calculated Parameters								
Anion Sum	me/L	5.35		5.55	3983772	6.58	N/A	3983772
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	180		200	3981952	220	1.0	3981952
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0		<1.0	3981952	<1.0	1.0	3981952
Cation Sum	me/L	5.44		5.23	3983772	6.79	N/A	3983772
Hardness (CaCO3)	mg/L	250		230	3982440	320	1.0	3982440
Ion Balance (% Difference)	%	0.830		2.91	3983771	1.51	N/A	3983771
Langelier Index (@ 20C)	N/A	-0.0500		-0.0400	3981949	0.290		3981949
Langelier Index (@ 4C)	N/A	-0.299		-0.289	3981950	0.0410		3981950
Saturation pH (@ 20C)	N/A	7.52		7.51	3981949	7.22		3981949
Saturation pH (@ 4C)	N/A	7.77		7.76	3981950	7.47		3981950
Inorganics								
Total Ammonia-N	mg/L	<0.050		<0.050	3984639	0.35	0.050	3984651
Conductivity	umho/cm	520	520	510	3983498	610	1.0	3983498
Dissolved Organic Carbon	mg/L	0.86		1.4	3986421	1.1	0.20	3986421
Orthophosphate (P)	mg/L	<0.010	<0.010	<0.010	3983632	<0.010	0.010	3983632
pH	pH	7.47	7.46	7.47	3983500	7.51	N/A	3983500
Dissolved Sulphate (SO4)	mg/L	44	44	39	3983634	88	1	3983634
Alkalinity (Total as CaCO3)	mg/L	180	180	200	3983481	220	1.0	3983481
Dissolved Chloride (Cl)	mg/L	29	29	24	3983626	15	1	3983626
Nitrite (N)	mg/L	<0.010		<0.010	3983573	<0.010	0.010	3983573
Nitrate (N)	mg/L	<0.10		<0.10	3983573	<0.10	0.10	3983573
Metals								
Dissolved Aluminum (Al)	mg/L	0.011		0.012	3990249	<0.0050	0.0050	3990249
Dissolved Antimony (Sb)	mg/L	<0.00050		<0.00050	3990249	<0.00050	0.00050	3990249
Dissolved Arsenic (As)	mg/L	<0.0010		<0.0010	3990249	0.0016	0.0010	3990249
Dissolved Barium (Ba)	mg/L	0.078		0.070	3990249	0.065	0.0020	3990249
Dissolved Beryllium (Be)	mg/L	<0.00050		<0.00050	3990249	<0.00050	0.00050	3990249
Dissolved Boron (B)	mg/L	<0.010		0.023	3990249	<0.010	0.010	3990249
Dissolved Cadmium (Cd)	mg/L	<0.00010		<0.00010	3990249	<0.00010	0.00010	3990249
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								
N/A = Not Applicable								

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
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Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ACK469	ACK469	ACK471		ACK473		
Sampling Date		2015/04/13 12:30	2015/04/13 12:30	2015/04/13 14:10		2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01		508378-04-01		
	Units	WG-160900764 -20150413-RD12	WG-160900764 -20150413-RD12 Lab-Dup	WG-160900764 -20150413-RD13	QC Batch	WG-160900764 -20150414-RD14	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	44		40	3990249	77	0.20	3990249
Dissolved Chromium (Cr)	mg/L	<0.0050		<0.0050	3990249	<0.0050	0.0050	3990249
Dissolved Cobalt (Co)	mg/L	<0.00050		<0.00050	3990249	<0.00050	0.00050	3990249
Dissolved Copper (Cu)	mg/L	<0.0010		<0.0010	3990249	<0.0010	0.0010	3990249
Dissolved Iron (Fe)	mg/L	<0.10		<0.10	3990249	0.53	0.10	3990249
Dissolved Lead (Pb)	mg/L	<0.00050		<0.00050	3990249	<0.00050	0.00050	3990249
Dissolved Magnesium (Mg)	mg/L	34		32	3990249	30	0.050	3990249
Dissolved Manganese (Mn)	mg/L	0.028		0.12	3990249	0.020	0.0020	3990249
Dissolved Molybdenum (Mo)	mg/L	0.0023		0.0047	3990249	0.0012	0.00050	3990249
Dissolved Nickel (Ni)	mg/L	<0.0010		<0.0010	3990249	<0.0010	0.0010	3990249
Dissolved Phosphorus (P)	mg/L	<0.10		<0.10	3990249	<0.10	0.10	3990249
Dissolved Potassium (K)	mg/L	2.7		4.0	3990249	2.3	0.20	3990249
Dissolved Selenium (Se)	mg/L	<0.0020		<0.0020	3990249	<0.0020	0.0020	3990249
Dissolved Silicon (Si)	mg/L	9.7		8.5	3990249	10	0.050	3990249
Dissolved Silver (Ag)	mg/L	<0.00010		<0.00010	3990249	<0.00010	0.00010	3990249
Dissolved Sodium (Na)	mg/L	8.6		12	3990249	8.3	0.10	3990249
Dissolved Strontium (Sr)	mg/L	0.41		0.50	3990249	0.29	0.0010	3990249
Dissolved Thallium (Tl)	mg/L	<0.000050		<0.000050	3990249	<0.000050	0.000050	3990249
Dissolved Titanium (Ti)	mg/L	<0.0050		<0.0050	3990249	<0.0050	0.0050	3990249
Dissolved Uranium (U)	mg/L	0.0011		0.0024	3990249	0.00025	0.00010	3990249
Dissolved Vanadium (V)	mg/L	<0.00050		<0.00050	3990249	<0.00050	0.00050	3990249
Dissolved Zinc (Zn)	mg/L	<0.0050		<0.0050	3990249	<0.0050	0.0050	3990249
Dissolved Zirconium (Zr)	mg/L	<0.0010		<0.0010	3990249	<0.0010	0.0010	3990249
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
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Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ACK475	ACK477		
Sampling Date		2015/04/14 10:20	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01		
	Units	WG-160900764 -20150414-RD15	WG-160900764 -20150414-RD16	RDL	QC Batch
Calculated Parameters					
Anion Sum	me/L	4.26	6.52	N/A	3983772
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	180	210	1.0	3981952
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	<1.0	1.0	3981952
Cation Sum	me/L	4.27	6.91	N/A	3983772
Hardness (CaCO3)	mg/L	190	320	1.0	3982440
Ion Balance (% Difference)	%	0.160	2.90	N/A	3983771
Langelier Index (@ 20C)	N/A	0.0180	0.317		3981949
Langelier Index (@ 4C)	N/A	-0.232	0.0690		3981950
Saturation pH (@ 20C)	N/A	7.61	7.22		3981949
Saturation pH (@ 4C)	N/A	7.86	7.47		3981950
Inorganics					
Total Ammonia-N	mg/L	0.052	<0.050	0.050	3984639
Conductivity	umho/cm	380	610	1.0	3983498
Dissolved Organic Carbon	mg/L	0.64	1.1	0.20	3986421
Orthophosphate (P)	mg/L	<0.010	<0.010	0.010	3983632
pH	pH	7.63	7.54	N/A	3983500
Dissolved Sulphate (SO4)	mg/L	22	88	1	3983634
Alkalinity (Total as CaCO3)	mg/L	180	210	1.0	3983481
Dissolved Chloride (Cl)	mg/L	5	15	1	3983626
Nitrite (N)	mg/L	<0.010	<0.010	0.010	3983573
Nitrate (N)	mg/L	<0.10	<0.10	0.10	3983573
Metals					
Dissolved Aluminum (Al)	mg/L	<0.0050	0.0059	0.0050	3990249
Dissolved Antimony (Sb)	mg/L	<0.00050	<0.00050	0.00050	3990249
Dissolved Arsenic (As)	mg/L	<0.0010	0.0017	0.0010	3990249
Dissolved Barium (Ba)	mg/L	0.047	0.064	0.0020	3990249
Dissolved Beryllium (Be)	mg/L	<0.00050	<0.00050	0.00050	3990249
Dissolved Boron (B)	mg/L	0.023	<0.010	0.010	3990249
Dissolved Cadmium (Cd)	mg/L	<0.00010	<0.00010	0.00010	3990249
Dissolved Calcium (Ca)	mg/L	33	78	0.20	3990249
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		ACK475	ACK477		
Sampling Date		2015/04/14 10:20	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01		
	Units	WG-160900764 -20150414-RD15	WG-160900764 -20150414-RD16	RDL	QC Batch
Dissolved Chromium (Cr)	mg/L	<0.0050	<0.0050	0.0050	3990249
Dissolved Cobalt (Co)	mg/L	<0.00050	<0.00050	0.00050	3990249
Dissolved Copper (Cu)	mg/L	<0.0010	<0.0010	0.0010	3990249
Dissolved Iron (Fe)	mg/L	<0.10	0.54	0.10	3990249
Dissolved Lead (Pb)	mg/L	<0.00050	<0.00050	0.00050	3990249
Dissolved Magnesium (Mg)	mg/L	25	31	0.050	3990249
Dissolved Manganese (Mn)	mg/L	0.049	0.020	0.0020	3990249
Dissolved Molybdenum (Mo)	mg/L	0.0025	0.0011	0.00050	3990249
Dissolved Nickel (Ni)	mg/L	<0.0010	<0.0010	0.0010	3990249
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	0.10	3990249
Dissolved Potassium (K)	mg/L	2.3	2.3	0.20	3990249
Dissolved Selenium (Se)	mg/L	<0.0020	<0.0020	0.0020	3990249
Dissolved Silicon (Si)	mg/L	6.8	10	0.050	3990249
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	3990249
Dissolved Sodium (Na)	mg/L	10	8.5	0.10	3990249
Dissolved Strontium (Sr)	mg/L	0.47	0.30	0.0010	3990249
Dissolved Thallium (Tl)	mg/L	<0.000050	<0.000050	0.000050	3990249
Dissolved Titanium (Ti)	mg/L	<0.0050	<0.0050	0.0050	3990249
Dissolved Uranium (U)	mg/L	0.00060	0.00026	0.00010	3990249
Dissolved Vanadium (V)	mg/L	<0.00050	<0.00050	0.00050	3990249
Dissolved Zinc (Zn)	mg/L	<0.0050	<0.0050	0.0050	3990249
Dissolved Zirconium (Zr)	mg/L	<0.0010	<0.0010	0.0010	3990249
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - SURFACE WATER (WATER)

Maxxam ID		ACK466	ACK467	ACK468		
Sampling Date		2015/04/13 07:36	2015/04/13 08:42	2015/04/13 09:24		
COC Number		508387-01-01	508387-01-01	508387-01-01		
	Units	WS-160900764 -20150413- RD100	WS-160900764 -20150413- RD101	WS-160900764 -20150413- RD102	RDL	QC Batch

Calculated Parameters						
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	230	270	310	1.0	3981952
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.5	1.1	1.0	3981952
Hardness (CaCO3)	mg/L	410	340	380	1.0	3982440
Langelier Index (@ 20C)	N/A	0.625	0.842	0.749		3981949
Langelier Index (@ 4C)	N/A	0.377	0.593	0.501		3981950
Saturation pH (@ 20C)	N/A	6.98	6.92	6.83		3981949
Saturation pH (@ 4C)	N/A	7.23	7.17	7.08		3981950
Inorganics						
Total Ammonia-N	mg/L	0.24	0.19	0.54	0.050	3984639
Conductivity	umho/cm	840	600	680	1.0	3983498
Total Organic Carbon (TOC)	mg/L	11	5.2	11	0.20	3985048
Orthophosphate (P)	mg/L	<0.010	<0.010	<0.010	0.010	3983632
pH	pH	7.60	7.77	7.58	N/A	3983500
Total Phosphorus	mg/L	0.031	0.025	0.062	0.004	3988626
Dissolved Sulphate (SO4)	mg/L	110	20	22	1	3983634
Turbidity	NTU	2.3	1.2	2.7	0.2	3983049
Alkalinity (Total as CaCO3)	mg/L	230	270	310	1.0	3983481
Dissolved Chloride (Cl)	mg/L	48	18	21	1	3983626
Nitrite (N)	mg/L	0.015	0.012	0.073	0.010	3983573
Nitrate (N)	mg/L	1.71	1.94	0.56	0.10	3983573
Metals						
Dissolved Calcium (Ca)	mg/L	130	120	130	0.05	3984585
Dissolved Magnesium (Mg)	mg/L	17	8.9	11	0.05	3984585
Dissolved Potassium (K)	mg/L	8	3	5	1	3984585
Dissolved Sodium (Na)	mg/L	27	5.3	5.3	0.5	3984585
Total Aluminum (Al)	mg/L	0.13	0.066	0.013	0.0050	3986621
Total Antimony (Sb)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	3986621
Total Arsenic (As)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	3986621
Total Barium (Ba)	mg/L	0.054	0.041	0.086	0.0020	3986621
Total Beryllium (Be)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	3986621
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

RCAP - SURFACE WATER (WATER)

Maxxam ID		ACK466	ACK467	ACK468		
Sampling Date		2015/04/13 07:36	2015/04/13 08:42	2015/04/13 09:24		
COC Number		508387-01-01	508387-01-01	508387-01-01		
	Units	WS-160900764 -20150413- RD100	WS-160900764 -20150413- RD101	WS-160900764 -20150413- RD102	RDL	QC Batch
Total Boron (B)	mg/L	0.11	0.015	0.030	0.010	3986621
Total Cadmium (Cd)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	3986621
Total Calcium (Ca)	mg/L	120	110	130	0.20	3986621
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	3986621
Total Cobalt (Co)	mg/L	<0.00050	<0.00050	0.00067	0.00050	3986621
Total Copper (Cu)	mg/L	0.0015	0.0010	<0.0010	0.0010	3986621
Total Iron (Fe)	mg/L	0.19	0.17	1.2	0.10	3986621
Total Lead (Pb)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	3986621
Total Magnesium (Mg)	mg/L	16	8.3	11	0.050	3986621
Total Manganese (Mn)	mg/L	0.10	0.14	0.94	0.0020	3986621
Total Molybdenum (Mo)	mg/L	0.0012	<0.00050	0.00051	0.00050	3986621
Total Nickel (Ni)	mg/L	0.0020	<0.0010	0.0015	0.0010	3986621
Total Phosphorus (P)	mg/L	0.12	<0.10	0.12	0.10	3986621
Total Potassium (K)	mg/L	7.3	2.2	4.6	0.20	3986621
Total Silicon (Si)	mg/L	3.6	3.3	3.8	0.050	3986621
Total Selenium (Se)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	3986621
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	3986621
Total Sodium (Na)	mg/L	24	4.6	4.9	0.10	3986621
Total Strontium (Sr)	mg/L	1.1	0.26	0.52	0.0010	3986621
Total Thallium (Tl)	mg/L	<0.000050	<0.000050	<0.000050	0.000050	3986621
Total Titanium (Ti)	mg/L	0.0079	0.0052	<0.0050	0.0050	3986621
Total Uranium (U)	mg/L	0.0010	0.00079	0.0013	0.00010	3986621
Total Vanadium (V)	mg/L	0.00063	<0.00050	<0.00050	0.00050	3986621
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	3986621
Total Zirconium (Zr)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	3986621
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
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Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		ACK466	ACK467	ACK468	ACK469	ACK469		
Sampling Date		2015/04/13 07:36	2015/04/13 08:42	2015/04/13 09:24	2015/04/13 12:30	2015/04/13 12:30		
COC Number		508387-01-01	508387-01-01	508387-01-01	508378-04-01	508378-04-01		
	Units	WS-160900764 -20150413- RD100	WS-160900764 -20150413- RD101	WS-160900764 -20150413- RD102	WG-160900764 -20150413-RD12	WG-160900764 -20150413-RD12 Lab-Dup	RDL	QC Batch

Inorganics								
Acidity as CaCO3	mg/L	14	12	32	10		10	3983195
Fluoride (F-)	mg/L	0.21	<0.10	0.11	0.20	0.21	0.10	3983499
Free Cyanide	ug/L	<2	<2	<2	<2		2	3983351
Total Organic Carbon (TOC)	mg/L				0.97		0.20	3985048
Total Suspended Solids	mg/L	<10	<10	<10	19		10	3982930
Turbidity	NTU				6.8		0.2	3983049

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

Maxxam ID		ACK471	ACK473	ACK475	ACK475	ACK477		
Sampling Date		2015/04/13 14:10	2015/04/14 10:55	2015/04/14 10:20	2015/04/14 10:20	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01	508378-04-01	508378-04-01		
	Units	WG-160900764 -20150413-RD13	WG-160900764 -20150414-RD14	WG-160900764 -20150414-RD15	WG-160900764 -20150414-RD15 Lab-Dup	WG-160900764 -20150414-RD16	RDL	QC Batch

Inorganics								
Acidity as CaCO3	mg/L	12	13	<10		17	10	3983195
Fluoride (F-)	mg/L	0.26	0.11	0.27		0.11	0.10	3983499
Free Cyanide	ug/L	<2	<2	<2		<2	2	3983351
Total Organic Carbon (TOC)	mg/L	1.5	1.2	0.88		1.2	0.20	3985048
Total Suspended Solids	mg/L	21	<10	15	13	<10	10	3982930
Turbidity	NTU	7.2	2.2	6.9		2.3	0.2	3983049

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

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		ACK477		
Sampling Date		2015/04/14 10:55		
COC Number		508378-04-01		
	Units	WG-160900764 -20150414-RD16 Lab-Dup	RDL	QC Batch
Inorganics				
Acidity as CaCO3	mg/L	15	10	3983195
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		ACK466	ACK467		ACK468		ACK469		
Sampling Date		2015/04/13 07:36	2015/04/13 08:42		2015/04/13 09:24		2015/04/13 12:30		
COC Number		508387-01-01	508387-01-01		508387-01-01		508378-04-01		
	Units	WS-160900764 -20150413- RD100	WS-160900764 -20150413- RD101	QC Batch	WS-160900764 -20150413- RD102	QC Batch	WG-160900764 -20150413-RD12	RDL	QC Batch

Metals									
Chromium (VI)	ug/L	<0.50	<0.50	3983032	<0.50	3983032	<0.50	0.50	3983032
Mercury (Hg)	mg/L	<0.00010	<0.00010	3988520	<0.00010	3986209	<0.00010	0.00010	3988520
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									

Maxxam ID		ACK469	ACK471	ACK473	ACK475	ACK477		
Sampling Date		2015/04/13 12:30	2015/04/13 14:10	2015/04/14 10:55	2015/04/14 10:20	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01	508378-04-01	508378-04-01		
	Units	WG-160900764 -20150413-RD12 Lab-Dup	WG-160900764 -20150413-RD13	WG-160900764 -20150414-RD14	WG-160900764 -20150414-RD15	WG-160900764 -20150414-RD16	RDL	QC Batch

Metals									
Chromium (VI)	ug/L		<0.50	<0.50	<0.50	<0.50	0.50	3983032	
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	3988520	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
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Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PCBS (WATER)

Maxxam ID		ACK466	ACK467	ACK468	ACK469	ACK469		
Sampling Date		2015/04/13 07:36	2015/04/13 08:42	2015/04/13 09:24	2015/04/13 12:30	2015/04/13 12:30		
COC Number		508387-01-01	508387-01-01	508387-01-01	508378-04-01	508378-04-01		
	Units	WS-160900764 -20150413- RD100	WS-160900764 -20150413- RD101	WS-160900764 -20150413- RD102	WG-160900764 -20150413-RD12	WG-160900764 -20150413-RD12 Lab-Dup	RDL	QC Batch

PCBs								
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3983764
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3983764
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3983764
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3983764
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3983764

Surrogate Recovery (%)								
Decachlorobiphenyl	%	95	101	98	116	116		3983764

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

Maxxam ID		ACK471	ACK473	ACK475	ACK477		
Sampling Date		2015/04/13 14:10	2015/04/14 10:55	2015/04/14 10:20	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01	508378-04-01		
	Units	WG-160900764 -20150413-RD13	WG-160900764 -20150414-RD14	WG-160900764 -20150414-RD15	WG-160900764 -20150414-RD16	RDL	QC Batch

PCBs								
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3983764	
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3983764	
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3983764	
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3983764	
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3983764	

Surrogate Recovery (%)								
Decachlorobiphenyl	%	112	114	109	111		3983764	

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B565881
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Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		ACK466	ACK467	ACK468	ACK469	ACK471		
Sampling Date		2015/04/13 07:36	2015/04/13 08:42	2015/04/13 09:24	2015/04/13 12:30	2015/04/13 14:10		
COC Number		508387-01-01	508387-01-01	508387-01-01	508378-04-01	508378-04-01		
	Units	WS-160900764 -20150413- RD100	WS-160900764 -20150413- RD101	WS-160900764 -20150413- RD102	WG-160900764 -20150413-RD12	WG-160900764 -20150413-RD13	RDL	QC Batch
BTEX & F1 Hydrocarbons								
F1 (C6-C10)	ug/L	<25	<25	<25	<25	<25	25	3987104
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	<25	25	3987104
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	100	3986667
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	3986667
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	3986667
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes		3986667
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	104	108	102	106	107		3987104
4-Bromofluorobenzene	%	91	96	89	92	96		3987104
D10-Ethylbenzene	%	89	94	81	91	97		3987104
D4-1,2-Dichloroethane	%	92	93	87	94	96		3987104
o-Terphenyl	%	99	99	106	99	100		3986667
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		ACK473	ACK475	ACK477		
Sampling Date		2015/04/14 10:55	2015/04/14 10:20	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01		
	Units	WG-160900764 -20150414-RD14	WG-160900764 -20150414-RD15	WG-160900764 -20150414-RD16	RDL	QC Batch
BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/L	<25	<25	<25	25	3987104
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	3987104
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	3986667
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	3986667
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	3986667
Reached Baseline at C50	ug/L	Yes	Yes	Yes		3986667
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	112	103	113		3987104
4-Bromofluorobenzene	%	98	91	97		3987104
D10-Ethylbenzene	%	91	88	93		3987104
D4-1,2-Dichloroethane	%	96	93	95		3987104
o-Terphenyl	%	98	100	101		3986667
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ACK466	ACK467	ACK468	ACK469	ACK470		
Sampling Date		2015/04/13 07:36	2015/04/13 08:42	2015/04/13 09:24	2015/04/13 12:30	2015/04/13 12:30		
COC Number		508387-01-01	508387-01-01	508387-01-01	508378-04-01	508378-04-01		
	Units	WS-160900764 -20150413- RD100	WS-160900764 -20150413- RD101	WS-160900764 -20150413- RD102	WG-160900764 -20150413-RD12	WG-160900764-20150413- RD12A	RDL	QC Batch

Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3986243
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	<2	2	3986243
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	3986243
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	3986243
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	3986243
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	<1	1	3986243
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ACK466	ACK467	ACK468	ACK469	ACK470		
Sampling Date		2015/04/13 07:36	2015/04/13 08:42	2015/04/13 09:24	2015/04/13 12:30	2015/04/13 12:30		
COC Number		508387-01-01	508387-01-01	508387-01-01	508378-04-01	508378-04-01		
	Units	WS-160900764 -20150413- RD100	WS-160900764 -20150413- RD101	WS-160900764 -20150413- RD102	WG-160900764 -20150413-RD12	WG-160900764-20150413- RD12A	RDL	QC Batch
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
p-Chloroaniline	ug/L	<1	<1	<1	<1	<1	1	3986243
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	<0.28	0.28	3981281
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	86	71	72	64	62		3986243
2-Fluorobiphenyl	%	67	68	40 (1)	50	51		3986243
D14-Terphenyl (FS)	%	85	85	81	84	12 (1)		3986243
D5-Nitrobenzene	%	75	71	57	65	57		3986243
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 #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ACK471	ACK471	ACK472	ACK473	ACK474		
Sampling Date		2015/04/13 14:10	2015/04/13 14:10	2015/04/13 14:10	2015/04/14 10:55	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01	508378-04-01	508378-04-01		
	Units	WG-160900764 -20150413-RD13	WG-160900764 -20150413-RD13 Lab-Dup	WG-160900764 -20150413-RDA	WG-160900764 -20150414-RD14	WG-160900764-20150414- RD14A	RDL	QC Batch

Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3986243
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	<2	2	3986243
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	3986243
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	3986243
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	3986243
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	<1	1	3986243
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243

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

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ACK471	ACK471	ACK472	ACK473	ACK474		
Sampling Date		2015/04/13 14:10	2015/04/13 14:10	2015/04/13 14:10	2015/04/14 10:55	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01	508378-04-01	508378-04-01		
	Units	WG-160900764 -20150413-RD13	WG-160900764 -20150413-RD13 Lab-Dup	WG-160900764 -20150413-RDA	WG-160900764 -20150414-RD14	WG-160900764-20150414- RD14A	RDL	QC Batch
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3986243
p-Chloroaniline	ug/L	<1	<1	<1	<1	<1	1	3986243
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28		<0.28	<0.28	<0.28	0.28	3981281
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	70	73	62	69	70		3986243
2-Fluorobiphenyl	%	49 (1)	66	68	69	0.10 (1)		3986243
D14-Terphenyl (FS)	%	80	81	14 (1)	82	14 (1)		3986243
D5-Nitrobenzene	%	60	73	81	77	74		3986243
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.								

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ACK475	ACK476	ACK477	ACK478		
Sampling Date		2015/04/14 10:20	2015/04/14 10:20	2015/04/14 10:55	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01	508378-04-01		
	Units	WG-160900764-20150414-RD15	WG-160900764-20150414-RD15A	WG-160900764-20150414-RD16	WG-160900764-20150414-RD16A	RDL	QC Batch

Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3986243
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3986243
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3986243
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3986243
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3986243
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3986243
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	3986243
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	3986243
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	3986243
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3986243
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3986243
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	3986243
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	3986243
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.2	0.1	3986243
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	0.1	3986243
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3986243
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3986243

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ACK475	ACK476	ACK477	ACK478		
Sampling Date		2015/04/14 10:20	2015/04/14 10:20	2015/04/14 10:55	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01	508378-04-01		
	Units	WG-160900764-20150414-RD15	WG-160900764-20150414-RD15A	WG-160900764-20150414-RD16	WG-160900764-20150414-RD16A	RDL	QC Batch
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	3986243
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	3986243
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	3986243
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	3986243
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	3986243
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	3981281
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	70	74	70	68		3986243
2-Fluorobiphenyl	%	64	66	62	0.60 (1)		3986243
D14-Terphenyl (FS)	%	87	24 (1)	84	17 (1)		3986243
D5-Nitrobenzene	%	81	78	79	81		3986243
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 #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ACK863		ACK864		
Sampling Date		2015/04/13 14:10		2015/04/13		
COC Number		508378-04-01		508378-04-01		
	Units	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	0.1	62	1	3986243
1-Methylnaphthalene	ug/L	<0.2	0.2	81	1	3986243
2,4,5-Trichlorophenol	ug/L	<0.2	0.2	89	1	3986243
2,4,6-Trichlorophenol	ug/L	<0.2	0.2	88	1	3986243
2,4-Dichlorophenol	ug/L	<0.1	0.1	80	1	3986243
2,4-Dimethylphenol	ug/L	<0.5	0.5	55	1	3986243
2,4-Dinitrophenol	ug/L	<2	2	89	1	3986243
2,4-Dinitrotoluene	ug/L	<0.3	0.3	87	1	3986243
2,6-Dinitrotoluene	ug/L	<0.3	0.3	86	1	3986243
2-Chlorophenol	ug/L	<0.1	0.1	67	1	3986243
2-Methylnaphthalene	ug/L	<0.2	0.2	74	1	3986243
3,3'-Dichlorobenzidine	ug/L	<0.5	0.5	93	1	3986243
Acenaphthene	ug/L	<0.2	0.2	83	1	3986243
Acenaphthylene	ug/L	<0.2	0.2	80	1	3986243
Anthracene	ug/L	<0.05	0.05	42 (1)	1	3986243
Benzo(a)anthracene	ug/L	<0.05	0.05	17 (1)	1	3986243
Benzo(a)pyrene	ug/L	<0.01	0.01	13 (1)	1	3986243
Benzo(b/j)fluoranthene	ug/L	<0.05	0.05	14 (1)	1	3986243
Benzo(g,h,i)perylene	ug/L	<0.05	0.05	11 (1)	1	3986243
Benzo(k)fluoranthene	ug/L	<0.05	0.05	13 (1)	1	3986243
Biphenyl	ug/L	<0.1	0.1	76	1	3986243
Bis(2-chloroethyl)ether	ug/L	<0.5	0.5	77	1	3986243
Bis(2-chloroisopropyl)ether	ug/L	<0.5	0.5	69	1	3986243
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	13 (1)	1	3986243
Chrysene	ug/L	<0.05	0.05	14 (1)	1	3986243
Dibenz(a,h)anthracene	ug/L	<0.1	0.1	11 (1)	1	3986243
Diethyl phthalate	ug/L	<0.1	0.1	95	1	3986243
Dimethyl phthalate	ug/L	<0.1	0.1	92	1	3986243
Fluoranthene	ug/L	<0.2	0.2	47 (1)	1	3986243
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 #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		ACK863		ACK864		
Sampling Date		2015/04/13 14:10		2015/04/13		
COC Number		508378-04-01		508378-04-01		
	Units	FILTERED BLANK	RDL	FILTERED SPIKE	RDL	QC Batch
Fluorene	ug/L	<0.2	0.2	79	1	3986243
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	0.1	11 (1)	1	3986243
Naphthalene	ug/L	<0.2	0.2	70	1	3986243
p-Chloroaniline	ug/L	<1	1	85	1	3986243
Pentachlorophenol	ug/L	<0.1	0.1	83	1	3986243
Phenanthrene	ug/L	<0.1	0.1	68	1	3986243
Phenol	ug/L	<0.5	0.5	28 (1)	1	3986243
Pyrene	ug/L	<0.05	0.05	44 (1)	1	3986243
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.28	0.28			3981281
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	58		88		3986243
2-Fluorobiphenyl	%	63		66		3986243
D14-Terphenyl (FS)	%	11 (1)		20 (1)		3986243
D5-Nitrobenzene	%	68		71		3986243
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 #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ACK466	ACK466	ACK467	ACK468	ACK469		
Sampling Date		2015/04/13 07:36	2015/04/13 07:36	2015/04/13 08:42	2015/04/13 09:24	2015/04/13 12:30		
COC Number		508387-01-01	508387-01-01	508387-01-01	508387-01-01	508378-04-01		
	Units	WS-160900764 -20150413- RD100	WS-160900764 -20150413- RD100 Lab-Dup	WS-160900764 -20150413- RD101	WS-160900764 -20150413- RD102	WG-160900764 -20150413-RD12	RDL	QC Batch

Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50		<0.50	<0.50	<0.50	0.50	3982095
Volatile Organics								
Acetone (2-Propanone)	ug/L	49	47	16	30	<10	10	3983587
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	3983587
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	3983587
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	3983587
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	3983587
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	3983587
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	3983587
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	3983587
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	<10	10	3983587
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ACK466	ACK466	ACK467	ACK468	ACK469		
Sampling Date		2015/04/13 07:36	2015/04/13 07:36	2015/04/13 08:42	2015/04/13 09:24	2015/04/13 12:30		
COC Number		508387-01-01	508387-01-01	508387-01-01	508387-01-01	508378-04-01		
	Units	WS-160900764 -20150413- RD100	WS-160900764 -20150413- RD100 Lab-Dup	WS-160900764 -20150413- RD101	WS-160900764 -20150413- RD102	WG-160900764 -20150413-RD12	RDL	QC Batch
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Toluene	ug/L	<0.20	<0.20	<0.20	1.7	<0.20	0.20	3983587
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	90	90	90	89	90		3983587
D4-1,2-Dichloroethane	%	106	105	104	106	105		3983587
D8-Toluene	%	96	96	97	96	97		3983587
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ACK471	ACK473	ACK475	ACK477		
Sampling Date		2015/04/13 14:10	2015/04/14 10:55	2015/04/14 10:20	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01	508378-04-01		
	Units	WG-160900764 -20150413-RD13	WG-160900764 -20150414-RD14	WG-160900764 -20150414-RD15	WG-160900764 -20150414-RD16	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3982629
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	3983587
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	3983587
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	3983587
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	0.30	3983587
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	3983587
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	3983587
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	3983587
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	3983587
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	10	3983587
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ACK471	ACK473	ACK475	ACK477		
Sampling Date		2015/04/13 14:10	2015/04/14 10:55	2015/04/14 10:20	2015/04/14 10:55		
COC Number		508378-04-01	508378-04-01	508378-04-01	508378-04-01		
	Units	WG-160900764 -20150413-RD13	WG-160900764 -20150414-RD14	WG-160900764 -20150414-RD15	WG-160900764 -20150414-RD16	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	3983587
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	3983587
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	89	90	89	89		3983587
D4-1,2-Dichloroethane	%	107	106	105	107		3983587
D8-Toluene	%	96	96	96	95		3983587
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ACK466
Sample ID: WS-160900764-20150413-RD100
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic
Acidity as CaCO3 in liquid		3983195	2015/04/15	2015/04/21	Grace Sison
Alkalinity	AT	3983481	N/A	2015/04/16	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3981952	N/A	2015/04/17	Automated Statchk
1,3-Dichloropropene Sum	CALC	3982095	N/A	2015/04/17	Automated Statchk
Chloride by Automated Colourimetry	KONE	3983626	N/A	2015/04/16	Alina Dobreanu
Conductivity	AT	3983498	N/A	2015/04/16	Surinder Rai
Chromium (VI) in Water	IC	3983032	N/A	2015/04/16	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3983351	N/A	2015/04/17	Xuanhong Qiu
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3987104	N/A	2015/04/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986667	2015/04/17	2015/04/18	Barbara Wowk
Fluoride	ISE	3983499	2015/04/15	2015/04/16	Surinder Rai
Hardness (calculated as CaCO3)		3982440	N/A	2015/04/17	Automated Statchk
Mercury in Water by CVAA	CV/AA	3988520	2015/04/20	2015/04/20	Magdalena Carlos
Lab Filtered Metals Analysis by ICP	ICP	3984585	2015/04/16	2015/04/16	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	3986621	N/A	2015/04/20	Cristina Petran
Total Ammonia-N	LACH/NH4	3984639	N/A	2015/04/20	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3983573	N/A	2015/04/19	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3983764	2015/04/15	2015/04/16	Li Peng
pH	AT	3983500	N/A	2015/04/16	Surinder Rai
Orthophosphate	KONE	3983632	N/A	2015/04/16	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3981949	N/A	2015/04/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3981950	N/A	2015/04/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3983634	N/A	2015/04/16	Alina Dobreanu
Total Organic Carbon (TOC)	TOCV/NDIR	3985048	N/A	2015/04/16	Anastasia Hamanov
Total Phosphorus (Colourimetric)	LACH/P	3988626	2015/04/20	2015/04/20	Sarabjit Raina
Total Suspended Solids	BAL	3982930	N/A	2015/04/15	Gurpreet Kaur
Turbidity	AT	3983049	N/A	2015/04/16	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3983587	N/A	2015/04/17	Manpreet Sarao

Maxxam ID: ACK466 Dup
Sample ID: WS-160900764-20150413-RD100
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds in Water	GC/MS	3983587	N/A	2015/04/17	Manpreet Sarao

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ACK467
Sample ID: WS-160900764-20150413-RD101
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic
Acidity as CaCO3 in liquid		3983195	2015/04/15	2015/04/21	Grace Sison
Alkalinity	AT	3983481	N/A	2015/04/16	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3981952	N/A	2015/04/17	Automated Statchk
1,3-Dichloropropene Sum	CALC	3982095	N/A	2015/04/17	Automated Statchk
Chloride by Automated Colourimetry	KONE	3983626	N/A	2015/04/16	Alina Dobreanu
Conductivity	AT	3983498	N/A	2015/04/16	Surinder Rai
Chromium (VI) in Water	IC	3983032	N/A	2015/04/16	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3983351	N/A	2015/04/17	Xuanhong Qiu
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3987104	N/A	2015/04/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986667	2015/04/17	2015/04/18	Barbara Wowk
Fluoride	ISE	3983499	2015/04/15	2015/04/16	Surinder Rai
Hardness (calculated as CaCO3)		3982440	N/A	2015/04/17	Automated Statchk
Mercury in Water by CVAA	CV/AA	3988520	2015/04/20	2015/04/20	Magdalena Carlos
Lab Filtered Metals Analysis by ICP	ICP	3984585	2015/04/16	2015/04/16	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	3986621	N/A	2015/04/20	Cristina Petran
Total Ammonia-N	LACH/NH4	3984639	N/A	2015/04/20	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3983573	N/A	2015/04/19	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3983764	2015/04/15	2015/04/16	Li Peng
pH	AT	3983500	N/A	2015/04/16	Surinder Rai
Orthophosphate	KONE	3983632	N/A	2015/04/16	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3981949	N/A	2015/04/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3981950	N/A	2015/04/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3983634	N/A	2015/04/16	Alina Dobreanu
Total Organic Carbon (TOC)	TOC/NDIR	3985048	N/A	2015/04/16	Anastasia Hamanov
Total Phosphorus (Colourimetric)	LACH/P	3988626	2015/04/20	2015/04/20	Sarabjit Raina
Total Suspended Solids	BAL	3982930	N/A	2015/04/15	Gurpreet Kaur
Turbidity	AT	3983049	N/A	2015/04/16	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3983587	N/A	2015/04/17	Manpreet Sarao

Maxxam ID: ACK468
Sample ID: WS-160900764-20150413-RD102
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic
Acidity as CaCO3 in liquid		3983195	2015/04/15	2015/04/21	Grace Sison
Alkalinity	AT	3983481	N/A	2015/04/16	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3981952	N/A	2015/04/17	Automated Statchk
1,3-Dichloropropene Sum	CALC	3982095	N/A	2015/04/17	Automated Statchk

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ACK468
Sample ID: WS-160900764-20150413-RD102
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	3983626	N/A	2015/04/16	Alina Dobreanu
Conductivity	AT	3983498	N/A	2015/04/16	Surinder Rai
Chromium (VI) in Water	IC	3983032	N/A	2015/04/16	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3983351	N/A	2015/04/17	Xuanhong Qiu
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3987104	N/A	2015/04/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986667	2015/04/17	2015/04/18	Barbara Wowk
Fluoride	ISE	3983499	2015/04/15	2015/04/16	Surinder Rai
Hardness (calculated as CaCO3)		3982440	N/A	2015/04/17	Automated Statchk
Mercury in Water by CVAA	CV/AA	3986209	2015/04/17	2015/04/17	Magdalena Carlos
Lab Filtered Metals Analysis by ICP	ICP	3984585	2015/04/16	2015/04/16	Azita Fazaali
Total Metals Analysis by ICPMS	ICP/MS	3986621	N/A	2015/04/20	Cristina Petran
Total Ammonia-N	LACH/NH4	3984639	N/A	2015/04/20	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3983573	N/A	2015/04/19	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3983764	2015/04/15	2015/04/16	Li Peng
pH	AT	3983500	N/A	2015/04/16	Surinder Rai
Orthophosphate	KONE	3983632	N/A	2015/04/16	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3981949	N/A	2015/04/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3981950	N/A	2015/04/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3983634	N/A	2015/04/16	Alina Dobreanu
Total Organic Carbon (TOC)	TOCV/NDIR	3985048	N/A	2015/04/16	Anastasia Hamanov
Total Phosphorus (Colourimetric)	LACH/P	3988626	2015/04/20	2015/04/20	Sarabjit Raina
Total Suspended Solids	BAL	3982930	N/A	2015/04/15	Gurpreet Kaur
Turbidity	AT	3983049	N/A	2015/04/16	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3983587	N/A	2015/04/17	Manpreet Sarao

Maxxam ID: ACK469
Sample ID: WG-160900764-20150413-RD12
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic
Acidity as CaCO3 in liquid		3983195	2015/04/15	2015/04/21	Grace Sison
Alkalinity	AT	3983481	N/A	2015/04/16	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3981952	N/A	2015/04/17	Automated Statchk
1,3-Dichloropropene Sum	CALC	3982095	N/A	2015/04/17	Automated Statchk
Chloride by Automated Colourimetry	KONE	3983626	N/A	2015/04/16	Alina Dobreanu
Conductivity	AT	3983498	N/A	2015/04/16	Surinder Rai
Chromium (VI) in Water	IC	3983032	N/A	2015/04/16	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3983351	N/A	2015/04/17	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3986421	N/A	2015/04/17	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3987104	N/A	2015/04/18	Georgeta Rusu

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ACK469
Sample ID: WG-160900764-20150413-RD12
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986667	2015/04/17	2015/04/18	Barbara Wowk
Fluoride	ISE	3983499	2015/04/15	2015/04/16	Surinder Rai
Hardness (calculated as CaCO3)		3982440	N/A	2015/04/22	Automated Statchk
Mercury in Water by CVAA	CV/AA	3988520	2015/04/20	2015/04/20	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3990249	N/A	2015/04/22	Prempal Bhatti
Ion Balance (% Difference)	CALC	3983771	N/A	2015/04/22	Automated Statchk
Anion and Cation Sum	CALC	3983772	N/A	2015/04/22	Automated Statchk
Total Ammonia-N	LACH/NH4	3984639	N/A	2015/04/20	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3983573	N/A	2015/04/19	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3983764	2015/04/15	2015/04/15	Li Peng
pH	AT	3983500	N/A	2015/04/16	Surinder Rai
Orthophosphate	KONE	3983632	N/A	2015/04/16	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3981949	N/A	2015/04/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3981950	N/A	2015/04/22	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3983634	N/A	2015/04/16	Alina Dobreanu
Total Organic Carbon (TOC)	TOCV/NDIR	3985048	N/A	2015/04/16	Anastasia Hamanov
Total Suspended Solids	BAL	3982930	N/A	2015/04/15	Gurpreet Kaur
Turbidity	AT	3983049	N/A	2015/04/16	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3983587	N/A	2015/04/17	Manpreet Sarao

Maxxam ID: ACK469 Dup
Sample ID: WG-160900764-20150413-RD12
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	3983481	N/A	2015/04/16	Surinder Rai
Chloride by Automated Colourimetry	KONE	3983626	N/A	2015/04/16	Alina Dobreanu
Conductivity	AT	3983498	N/A	2015/04/16	Surinder Rai
Fluoride	ISE	3983499	2015/04/15	2015/04/16	Surinder Rai
Mercury in Water by CVAA	CV/AA	3988520	2015/04/20	2015/04/20	Magdalena Carlos
Polychlorinated Biphenyl in Water	GC/ECD	3983764	2015/04/15	2015/04/16	Li Peng
pH	AT	3983500	N/A	2015/04/16	Surinder Rai
Orthophosphate	KONE	3983632	N/A	2015/04/16	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	3983634	N/A	2015/04/16	Alina Dobreanu

Maxxam ID: ACK470
Sample ID: WG-160900764-20150413-RD12A
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ACK471
Sample ID: WG-160900764-20150413-RD13
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/21	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic
Acidity as CaCO3 in liquid		3983195	2015/04/15	2015/04/21	Grace Sison
Alkalinity	AT	3983481	N/A	2015/04/16	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3981952	N/A	2015/04/17	Automated Statchk
1,3-Dichloropropene Sum	CALC	3982629	N/A	2015/04/17	Automated Statchk
Chloride by Automated Colourimetry	KONE	3983626	N/A	2015/04/16	Alina Dobreanu
Conductivity	AT	3983498	N/A	2015/04/16	Surinder Rai
Chromium (VI) in Water	IC	3983032	N/A	2015/04/16	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3983351	N/A	2015/04/17	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3986421	N/A	2015/04/17	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3987104	N/A	2015/04/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986667	2015/04/17	2015/04/18	Barbara Wowk
Fluoride	ISE	3983499	2015/04/15	2015/04/16	Surinder Rai
Hardness (calculated as CaCO3)		3982440	N/A	2015/04/22	Automated Statchk
Mercury in Water by CVAA	CV/AA	3988520	2015/04/20	2015/04/20	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3990249	N/A	2015/04/22	Prempal Bhatti
Ion Balance (% Difference)	CALC	3983771	N/A	2015/04/22	Automated Statchk
Anion and Cation Sum	CALC	3983772	N/A	2015/04/22	Automated Statchk
Total Ammonia-N	LACH/NH4	3984639	N/A	2015/04/20	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3983573	N/A	2015/04/19	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3983764	2015/04/15	2015/04/16	Li Peng
pH	AT	3983500	N/A	2015/04/16	Surinder Rai
Orthophosphate	KONE	3983632	N/A	2015/04/16	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3981949	N/A	2015/04/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3981950	N/A	2015/04/22	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3983634	N/A	2015/04/16	Alina Dobreanu
Total Organic Carbon (TOC)	TOCV/NDIR	3985048	N/A	2015/04/16	Anastasia Hamanov
Total Suspended Solids	BAL	3982930	N/A	2015/04/15	Gurpreet Kaur
Turbidity	AT	3983049	N/A	2015/04/16	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3983587	N/A	2015/04/17	Manpreet Sarao

Maxxam ID: ACK471 Dup
Sample ID: WG-160900764-20150413-RD13
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ACK472
Sample ID: WG-160900764-20150413-RDA
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic

Maxxam ID: ACK473
Sample ID: WG-160900764-20150414-RD14
Matrix: Water

Collected: 2015/04/14
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic
Acidity as CaCO3 in liquid		3983195	2015/04/15	2015/04/21	Grace Sison
Alkalinity	AT	3983481	N/A	2015/04/16	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3981952	N/A	2015/04/17	Automated Statchk
1,3-Dichloropropene Sum	CALC	3982629	N/A	2015/04/17	Automated Statchk
Chloride by Automated Colourimetry	KONE	3983626	N/A	2015/04/16	Alina Dobreanu
Conductivity	AT	3983498	N/A	2015/04/16	Surinder Rai
Chromium (VI) in Water	IC	3983032	N/A	2015/04/16	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3983351	N/A	2015/04/17	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3986421	N/A	2015/04/17	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3987104	N/A	2015/04/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986667	2015/04/17	2015/04/18	Barbara Wowk
Fluoride	ISE	3983499	2015/04/15	2015/04/16	Surinder Rai
Hardness (calculated as CaCO3)		3982440	N/A	2015/04/22	Automated Statchk
Mercury in Water by CVAA	CV/AA	3988520	2015/04/20	2015/04/20	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3990249	N/A	2015/04/22	Prempal Bhatti
Ion Balance (% Difference)	CALC	3983771	N/A	2015/04/22	Automated Statchk
Anion and Cation Sum	CALC	3983772	N/A	2015/04/22	Automated Statchk
Total Ammonia-N	LACH/NH4	3984651	N/A	2015/04/17	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3983573	N/A	2015/04/19	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3983764	2015/04/15	2015/04/16	Li Peng
pH	AT	3983500	N/A	2015/04/16	Surinder Rai
Orthophosphate	KONE	3983632	N/A	2015/04/16	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3981949	N/A	2015/04/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3981950	N/A	2015/04/22	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3983634	N/A	2015/04/16	Alina Dobreanu
Total Organic Carbon (TOC)	TOCV/NDIR	3985048	N/A	2015/04/16	Anastasia Hamanov
Total Suspended Solids	BAL	3982930	N/A	2015/04/15	Gurpreet Kaur
Turbidity	AT	3983049	N/A	2015/04/16	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3983587	N/A	2015/04/17	Manpreet Sarao

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ACK474
Sample ID: WG-160900764-20150414-RD14A
Matrix: Water

Collected: 2015/04/14
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic

Maxxam ID: ACK475
Sample ID: WG-160900764-20150414-RD15
Matrix: Water

Collected: 2015/04/14
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic
Acidity as CaCO3 in liquid		3983195	2015/04/15	2015/04/21	Grace Sison
Alkalinity	AT	3983481	N/A	2015/04/16	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3981952	N/A	2015/04/17	Automated Statchk
1,3-Dichloropropene Sum	CALC	3982629	N/A	2015/04/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	3983626	N/A	2015/04/16	Alina Dobreanu
Conductivity	AT	3983498	N/A	2015/04/16	Surinder Rai
Chromium (VI) in Water	IC	3983032	N/A	2015/04/16	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3983351	N/A	2015/04/17	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3986421	N/A	2015/04/17	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3987104	N/A	2015/04/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986667	2015/04/17	2015/04/18	Barbara Wowk
Fluoride	ISE	3983499	2015/04/15	2015/04/16	Surinder Rai
Hardness (calculated as CaCO3)		3982440	N/A	2015/04/22	Automated Statchk
Mercury in Water by CVAA	CV/AA	3988520	2015/04/20	2015/04/20	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3990249	N/A	2015/04/22	Prempal Bhatti
Ion Balance (% Difference)	CALC	3983771	N/A	2015/04/22	Automated Statchk
Anion and Cation Sum	CALC	3983772	N/A	2015/04/22	Automated Statchk
Total Ammonia-N	LACH/NH4	3984639	N/A	2015/04/20	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3983573	N/A	2015/04/19	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3983764	2015/04/15	2015/04/16	Li Peng
pH	AT	3983500	N/A	2015/04/16	Surinder Rai
Orthophosphate	KONE	3983632	N/A	2015/04/16	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3981949	N/A	2015/04/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3981950	N/A	2015/04/22	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3983634	N/A	2015/04/16	Alina Dobreanu
Total Organic Carbon (TOC)	TOCV/NDIR	3985048	N/A	2015/04/16	Anastasia Hamanov
Total Suspended Solids	BAL	3982930	N/A	2015/04/15	Gurpreet Kaur
Turbidity	AT	3983049	N/A	2015/04/16	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3983587	N/A	2015/04/17	Manpreet Sarao

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ACK475 Dup
Sample ID: WG-160900764-20150414-RD15
Matrix: Water

Collected: 2015/04/14
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	3982930	N/A	2015/04/15	Gurpreet Kaur

Maxxam ID: ACK476
Sample ID: WG-160900764-20150414-RD15A
Matrix: Water

Collected: 2015/04/14
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic

Maxxam ID: ACK477
Sample ID: WG-160900764-20150414-RD16
Matrix: Water

Collected: 2015/04/14
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic
Acidity as CaCO3 in liquid		3983195	2015/04/15	2015/04/21	Grace Sison
Alkalinity	AT	3983481	N/A	2015/04/16	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	3981952	N/A	2015/04/17	Automated Statchk
1,3-Dichloropropene Sum	CALC	3982629	N/A	2015/04/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	3983626	N/A	2015/04/16	Alina Dobreanu
Conductivity	AT	3983498	N/A	2015/04/16	Surinder Rai
Chromium (VI) in Water	IC	3983032	N/A	2015/04/16	Sally Coughlin
Free (WAD) Cyanide	TECH/CN	3983351	N/A	2015/04/17	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	3986421	N/A	2015/04/17	Anastasia Hamanov
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	3987104	N/A	2015/04/18	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	3986667	2015/04/17	2015/04/18	Barbara Wowk
Fluoride	ISE	3983499	2015/04/15	2015/04/16	Surinder Rai
Hardness (calculated as CaCO3)		3982440	N/A	2015/04/22	Automated Statchk
Mercury in Water by CVAA	CV/AA	3988520	2015/04/20	2015/04/20	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	3990249	N/A	2015/04/22	Prempal Bhatti
Ion Balance (% Difference)	CALC	3983771	N/A	2015/04/22	Automated Statchk
Anion and Cation Sum	CALC	3983772	N/A	2015/04/22	Automated Statchk
Total Ammonia-N	LACH/NH4	3984639	N/A	2015/04/20	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	3983573	N/A	2015/04/19	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	3983764	2015/04/15	2015/04/16	Li Peng
pH	AT	3983500	N/A	2015/04/16	Surinder Rai
Orthophosphate	KONE	3983632	N/A	2015/04/16	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	3981949	N/A	2015/04/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	3981950	N/A	2015/04/22	Automated Statchk
Sulphate by Automated Colourimetry	KONE	3983634	N/A	2015/04/16	Alina Dobreanu

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND WATER
Your P.O. #: 16400NR
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: ACK477
Sample ID: WG-160900764-20150414-RD16
Matrix: Water

Collected: 2015/04/14
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	3985048	N/A	2015/04/16	Anastasia Hamanov
Total Suspended Solids	BAL	3982930	N/A	2015/04/15	Gurpreet Kaur
Turbidity	AT	3983049	N/A	2015/04/16	Lemeneh Addis
Volatile Organic Compounds in Water	GC/MS	3983587	N/A	2015/04/17	Manpreet Sarao

Maxxam ID: ACK477 Dup
Sample ID: WG-160900764-20150414-RD16
Matrix: Water

Collected: 2015/04/14
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity as CaCO3 in liquid		3983195	2015/04/15	2015/04/21	Grace Sison

Maxxam ID: ACK478
Sample ID: WG-160900764-20150414-RD16A
Matrix: Water

Collected: 2015/04/14
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic

Maxxam ID: ACK863
Sample ID: FILTERED BLANK
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	3981281	N/A	2015/04/22	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic

Maxxam ID: ACK864
Sample ID: FILTERED SPIKE
Matrix: Water

Collected: 2015/04/13
Shipped:
Received: 2015/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	3986243	2015/04/20	2015/04/21	Milijana Avramovic

Maxxam Job #: B565881
Report Date: 2015/04/23

Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND
WATER
Your P.O. #: 16400NR
Sampler Initials: RD

GENERAL COMMENTS

Sample ACK864-01 : ABN analysis:Data are reported as percentage recoveries.

Results relate only to the items tested.

Maxxam Job #: B565881
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd - Clarington
Client Project #: 160900764

CLARINGTON TS-SURFACE WATER/ GROUND
Site Location: WATER
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3983587	4-Bromofluorobenzene	2015/04/16	93	70 - 130	96	70 - 130	94	%				
3983587	D4-1,2-Dichloroethane	2015/04/16	101	70 - 130	101	70 - 130	103	%				
3983587	D8-Toluene	2015/04/16	102	70 - 130	102	70 - 130	96	%				
3983764	Decachlorobiphenyl	2015/04/15	103	60 - 130	98	60 - 130	104	%				
3986243	2,4,6-Tribromophenol	2015/04/20	95	50 - 130	94	50 - 130	69	%				
3986243	2-Fluorobiphenyl	2015/04/20	71	50 - 130	75	50 - 130	63	%				
3986243	D14-Terphenyl (FS)	2015/04/20	84	50 - 130	84	50 - 130	85	%				
3986243	D5-Nitrobenzene	2015/04/20	86	50 - 130	85	50 - 130	70	%				
3986667	o-Terphenyl	2015/04/17	104	60 - 130	102	60 - 130	99	%				
3987104	1,4-Difluorobenzene	2015/04/18	105	70 - 130	108	70 - 130	108	%				
3987104	4-Bromofluorobenzene	2015/04/18	96	70 - 130	100	70 - 130	95	%				
3987104	D10-Ethylbenzene	2015/04/18	88	70 - 130	90	70 - 130	78	%				
3987104	D4-1,2-Dichloroethane	2015/04/18	90	70 - 130	96	70 - 130	99	%				
3982930	Total Suspended Solids	2015/04/15					<10	mg/L	NC	25	99	85 - 115
3983032	Chromium (VI)	2015/04/16	95	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
3983049	Turbidity	2015/04/16			98	85 - 115	<0.2	NTU	4.7	20		
3983195	Acidity as CaCO3	2015/04/21					<10	mg/L	NC	25		
3983351	Free Cyanide	2015/04/17	104	80 - 120	103	80 - 120	<2	ug/L	NC	20		
3983481	Alkalinity (Total as CaCO3)	2015/04/16			94	85 - 115	<1.0	mg/L	2.7	25		
3983498	Conductivity	2015/04/16			102	85 - 115	<1.0	umho/cm	0.19	25		
3983499	Fluoride (F-)	2015/04/16	104	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
3983500	pH	2015/04/16			102	98 - 103			0.054	N/A		
3983573	Nitrate (N)	2015/04/19	100	80 - 120	98	80 - 120	<0.10	mg/L	NC	25		
3983573	Nitrite (N)	2015/04/19	107	80 - 120	103	80 - 120	<0.010	mg/L	NC	25		
3983587	1,1,1,2-Tetrachloroethane	2015/04/17	104	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3983587	1,1,1-Trichloroethane	2015/04/17	102	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
3983587	1,1,2,2-Tetrachloroethane	2015/04/17	105	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
3983587	1,1,2-Trichloroethane	2015/04/17	102	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
3983587	1,1-Dichloroethane	2015/04/17	106	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		

Maxxam Job #: B565881
Report Date: 2015/04/23

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764

CLARINGTON TS-SURFACE WATER/ GROUND

Site Location: WATER

Your P.O. #: 16400NR

Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3983587	1,1-Dichloroethylene	2015/04/17	113	70 - 130	109	70 - 130	<0.20	ug/L	NC	30		
3983587	1,2-Dichlorobenzene	2015/04/17	107	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
3983587	1,2-Dichloroethane	2015/04/17	103	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3983587	1,2-Dichloropropane	2015/04/17	103	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
3983587	1,3-Dichlorobenzene	2015/04/17	106	70 - 130	102	70 - 130	<0.50	ug/L	NC	30		
3983587	1,4-Dichlorobenzene	2015/04/17	104	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
3983587	Acetone (2-Propanone)	2015/04/17	101	60 - 140	109	60 - 140	<10	ug/L	NC	30		
3983587	Benzene	2015/04/17	102	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
3983587	Bromodichloromethane	2015/04/17	101	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
3983587	Bromoform	2015/04/17	99	70 - 130	98	70 - 130	<1.0	ug/L	NC	30		
3983587	Bromomethane	2015/04/17	99	60 - 140	97	60 - 140	<0.50	ug/L	NC	30		
3983587	Carbon Tetrachloride	2015/04/17	106	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
3983587	Chlorobenzene	2015/04/17	102	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
3983587	Chloroform	2015/04/17	105	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
3983587	cis-1,2-Dichloroethylene	2015/04/17	103	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
3983587	cis-1,3-Dichloropropene	2015/04/17	82	70 - 130	81	70 - 130	<0.30	ug/L	NC	30		
3983587	Dibromochloromethane	2015/04/17	104	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
3983587	Dichlorodifluoromethane (FREON 12)	2015/04/17	103	60 - 140	98	60 - 140	<1.0	ug/L	NC	30		
3983587	Ethylbenzene	2015/04/17	98	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
3983587	Ethylene Dibromide	2015/04/17	100	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
3983587	Hexane	2015/04/17	104	70 - 130	102	70 - 130	<1.0	ug/L	NC	30		
3983587	Methyl Ethyl Ketone (2-Butanone)	2015/04/17	101	60 - 140	107	60 - 140	<10	ug/L	NC	30		
3983587	Methyl Isobutyl Ketone	2015/04/17	99	70 - 130	102	70 - 130	<5.0	ug/L	NC	30		
3983587	Methyl t-butyl ether (MTBE)	2015/04/17	94	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
3983587	Methylene Chloride(Dichloromethane)	2015/04/17	109	70 - 130	106	70 - 130	<2.0	ug/L	NC	30		
3983587	o-Xylene	2015/04/17	93	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
3983587	p+m-Xylene	2015/04/17	96	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
3983587	Styrene	2015/04/17	103	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
3983587	Tetrachloroethylene	2015/04/17	109	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
3983587	Toluene	2015/04/17	98	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764

CLARINGTON TS-SURFACE WATER/ GROUND
Site Location: WATER
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3983587	Total Xylenes	2015/04/17					<0.20	ug/L	NC	30		
3983587	trans-1,2-Dichloroethylene	2015/04/17	105	70 - 130	102	70 - 130	<0.50	ug/L	NC	30		
3983587	trans-1,3-Dichloropropene	2015/04/17	81	70 - 130	81	70 - 130	<0.40	ug/L	NC	30		
3983587	Trichloroethylene	2015/04/17	103	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
3983587	Trichlorofluoromethane (FREON 11)	2015/04/17	103	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
3983587	Vinyl Chloride	2015/04/17	103	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
3983626	Dissolved Chloride (Cl)	2015/04/16	NC	80 - 120	103	80 - 120	<1	mg/L	0.16	20		
3983632	Orthophosphate (P)	2015/04/16	111	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
3983634	Dissolved Sulphate (SO4)	2015/04/16	NC	75 - 125	100	80 - 120	<1	mg/L	0.48	20		
3983764	Aroclor 1242	2015/04/16					<0.05	ug/L	NC	30		
3983764	Aroclor 1248	2015/04/16					<0.05	ug/L	NC	30		
3983764	Aroclor 1254	2015/04/16					<0.05	ug/L	NC	30		
3983764	Aroclor 1260	2015/04/16	105	60 - 130	85	60 - 130	<0.05	ug/L	NC	30		
3983764	Total PCB	2015/04/16	105	60 - 130	85	60 - 130	<0.05	ug/L	NC	40		
3984585	Dissolved Calcium (Ca)	2015/04/16	NC	80 - 120	103	80 - 120	<0.05	mg/L				
3984585	Dissolved Magnesium (Mg)	2015/04/16	NC	80 - 120	99	80 - 120	<0.05	mg/L				
3984585	Dissolved Potassium (K)	2015/04/16	NC	80 - 120	101	80 - 120	<1	mg/L				
3984585	Dissolved Sodium (Na)	2015/04/16	NC	80 - 120	101	80 - 120	<0.5	mg/L	0.73	25		
3984639	Total Ammonia-N	2015/04/20	98	80 - 120	96	85 - 115	<0.050	mg/L	NC	20		
3984651	Total Ammonia-N	2015/04/17	94	80 - 120	97	85 - 115	<0.050	mg/L	NC	20		
3985048	Total Organic Carbon (TOC)	2015/04/16	NC	80 - 120	98	80 - 120	<0.20	mg/L	2.2	20		
3986209	Mercury (Hg)	2015/04/17	110	80 - 120	105	80 - 120	<0.00010	mg/L	NC	20		
3986243	1,2,4-Trichlorobenzene	2015/04/21	62	40 - 130	65	40 - 130	<0.1	ug/L	NC	30		
3986243	1-Methylnaphthalene	2015/04/21	89	50 - 130	87	50 - 130	<0.2	ug/L	NC	30		
3986243	2,4,5-Trichlorophenol	2015/04/21	104	50 - 130	103	50 - 130	<0.2	ug/L	NC	30		
3986243	2,4,6-Trichlorophenol	2015/04/21	102	50 - 130	102	50 - 130	<0.2	ug/L	NC	30		
3986243	2,4-Dichlorophenol	2015/04/21	92	50 - 130	91	50 - 130	<0.1	ug/L	NC	30		
3986243	2,4-Dimethylphenol	2015/04/21	43	30 - 130	60	30 - 130	<0.5	ug/L	NC	30		
3986243	2,4-Dinitrophenol	2015/04/21	101	30 - 130	80	30 - 130	<2	ug/L	NC	30		
3986243	2,4-Dinitrotoluene	2015/04/21	97	50 - 130	96	50 - 130	<0.3	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764

CLARINGTON TS-SURFACE WATER/ GROUND

Site Location: WATER
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3986243	2,6-Dinitrotoluene	2015/04/21	98	50 - 130	96	50 - 130	<0.3	ug/L	NC	30		
3986243	2-Chlorophenol	2015/04/21	82	50 - 130	80	50 - 130	<0.1	ug/L	NC	30		
3986243	2-Methylnaphthalene	2015/04/21	81	50 - 130	79	50 - 130	<0.2	ug/L	NC	30		
3986243	3,3'-Dichlorobenzidine	2015/04/21	61	30 - 130	99	30 - 130	<0.5	ug/L	NC	30		
3986243	Acenaphthene	2015/04/21	98	50 - 130	97	50 - 130	<0.2	ug/L	NC	30		
3986243	Acenaphthylene	2015/04/21	95	50 - 130	94	50 - 130	<0.2	ug/L	NC	30		
3986243	Anthracene	2015/04/21	99	50 - 130	98	50 - 130	<0.05	ug/L	NC	30		
3986243	Benzo(a)anthracene	2015/04/21	108	50 - 130	108	50 - 130	<0.05	ug/L	NC	30		
3986243	Benzo(a)pyrene	2015/04/21	115	50 - 130	101	50 - 130	<0.01	ug/L	NC	30		
3986243	Benzo(b/j)fluoranthene	2015/04/21	112	50 - 130	112	50 - 130	<0.05	ug/L	NC	30		
3986243	Benzo(g,h,i)perylene	2015/04/21	99	50 - 130	104	50 - 130	<0.05	ug/L	NC	30		
3986243	Benzo(k)fluoranthene	2015/04/21	111	50 - 130	110	50 - 130	<0.05	ug/L	NC	30		
3986243	Biphenyl	2015/04/21	89	50 - 130	89	50 - 130	<0.1	ug/L	NC	30		
3986243	Bis(2-chloroethyl)ether	2015/04/21	95	50 - 130	91	50 - 130	<0.5	ug/L	NC	30		
3986243	Bis(2-chloroisopropyl)ether	2015/04/21	84	50 - 130	82	50 - 130	<0.5	ug/L	NC	30		
3986243	Bis(2-ethylhexyl)phthalate	2015/04/21	109	50 - 130	109	50 - 130	<1	ug/L	NC	30		
3986243	Chrysene	2015/04/21	112	50 - 130	113	50 - 130	<0.05	ug/L	NC	30		
3986243	Dibenz(a,h)anthracene	2015/04/21	105	50 - 130	109	50 - 130	<0.1	ug/L	NC	30		
3986243	Diethyl phthalate	2015/04/21	103	50 - 130	105	50 - 130	<0.1	ug/L	NC	30		
3986243	Dimethyl phthalate	2015/04/21	103	50 - 130	103	50 - 130	<0.1	ug/L	NC	30		
3986243	Fluoranthene	2015/04/21	109	50 - 130	109	50 - 130	<0.2	ug/L	NC	30		
3986243	Fluorene	2015/04/21	102	50 - 130	101	50 - 130	<0.2	ug/L	NC	30		
3986243	Indeno(1,2,3-cd)pyrene	2015/04/21	106	50 - 130	110	50 - 130	<0.1	ug/L	NC	30		
3986243	Naphthalene	2015/04/21	76	50 - 130	75	50 - 130	<0.2	ug/L	NC	30		
3986243	p-Chloroaniline	2015/04/21	76	30 - 130	97	30 - 130	<1	ug/L	NC	30		
3986243	Pentachlorophenol	2015/04/21	89	50 - 130	83	50 - 130	<0.1	ug/L	NC	30		
3986243	Phenanthrene	2015/04/21	103	50 - 130	102	50 - 130	<0.1	ug/L	NC	30		
3986243	Phenol	2015/04/21	37	30 - 130	35	30 - 130	<0.5	ug/L	NC	30		
3986243	Pyrene	2015/04/21	113	50 - 130	113	50 - 130	<0.05	ug/L	NC	30		
3986421	Dissolved Organic Carbon	2015/04/17	97	80 - 120	99	80 - 120	<0.20	mg/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764

CLARINGTON TS-SURFACE WATER/ GROUND

Site Location: WATER

Your P.O. #: 16400NR

Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3986621	Total Aluminum (Al)	2015/04/20	NC	80 - 120	95	80 - 120	<0.0050	mg/L	3.8	20		
3986621	Total Antimony (Sb)	2015/04/20	101	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
3986621	Total Arsenic (As)	2015/04/20	98	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
3986621	Total Barium (Ba)	2015/04/20	95	80 - 120	94	80 - 120	<0.0020	mg/L	5.0	20		
3986621	Total Beryllium (Be)	2015/04/20	100	80 - 120	94	80 - 120	<0.00050	mg/L	NC	20		
3986621	Total Boron (B)	2015/04/20	96	80 - 120	90	80 - 120	<0.010	mg/L	3.1	20		
3986621	Total Cadmium (Cd)	2015/04/20	98	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
3986621	Total Calcium (Ca)	2015/04/20	NC	80 - 120	96	80 - 120	<0.20	mg/L	3.7	20		
3986621	Total Chromium (Cr)	2015/04/20	95	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
3986621	Total Cobalt (Co)	2015/04/20	96	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
3986621	Total Copper (Cu)	2015/04/20	97	80 - 120	97	80 - 120	<0.0010	mg/L	2.2	20		
3986621	Total Iron (Fe)	2015/04/20	94	80 - 120	97	80 - 120	<0.10	mg/L				
3986621	Total Lead (Pb)	2015/04/20	94	80 - 120	98	80 - 120	<0.00050	mg/L	2.1	20		
3986621	Total Magnesium (Mg)	2015/04/20	93	80 - 120	95	80 - 120	<0.050	mg/L	1.5	20		
3986621	Total Manganese (Mn)	2015/04/20	93	80 - 120	96	80 - 120	<0.0020	mg/L	0.33	20		
3986621	Total Molybdenum (Mo)	2015/04/20	102	80 - 120	99	80 - 120	<0.00050	mg/L	0.55	20		
3986621	Total Nickel (Ni)	2015/04/20	96	80 - 120	97	80 - 120	<0.0010	mg/L	1.4	20		
3986621	Total Phosphorus (P)	2015/04/20	104	80 - 120	105	80 - 120	<0.10	mg/L	NC	20		
3986621	Total Potassium (K)	2015/04/20	94	80 - 120	95	80 - 120	<0.20	mg/L	1.4	20		
3986621	Total Selenium (Se)	2015/04/20	98	80 - 120	103	80 - 120	<0.0020	mg/L	NC	20		
3986621	Total Silicon (Si)	2015/04/20	96	80 - 120	91	80 - 120	<0.050	mg/L	4.5	20		
3986621	Total Silver (Ag)	2015/04/20	97	80 - 120	99	80 - 120	0.00014, RDL=0.00010	mg/L	NC	20		
3986621	Total Sodium (Na)	2015/04/20	NC	80 - 120	97	80 - 120	<0.10	mg/L	1.1	20		
3986621	Total Strontium (Sr)	2015/04/20	NC	80 - 120	96	80 - 120	<0.0010	mg/L	1.6	20		
3986621	Total Thallium (Tl)	2015/04/20	94	80 - 120	98	80 - 120	<0.000050	mg/L	NC	20		
3986621	Total Titanium (Ti)	2015/04/20	93	80 - 120	94	80 - 120	<0.0050	mg/L	NC	20		
3986621	Total Uranium (U)	2015/04/20	98	80 - 120	99	80 - 120	<0.00010	mg/L				
3986621	Total Vanadium (V)	2015/04/20	96	80 - 120	97	80 - 120	<0.00050	mg/L	1.6	20		
3986621	Total Zinc (Zn)	2015/04/20	94	80 - 120	101	80 - 120	<0.0050	mg/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764

CLARINGTON TS-SURFACE WATER/ GROUND

Site Location: WATER

Your P.O. #: 16400NR

Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3986621	Total Zirconium (Zr)	2015/04/20	101	80 - 120	100	80 - 120	<0.0010	mg/L				
3986667	F2 (C10-C16 Hydrocarbons)	2015/04/18	105	50 - 130	101	60 - 130	<100	ug/L	NC	30		
3986667	F3 (C16-C34 Hydrocarbons)	2015/04/18	103	50 - 130	99	60 - 130	<200	ug/L	NC	30		
3986667	F4 (C34-C50 Hydrocarbons)	2015/04/18	103	50 - 130	99	60 - 130	<200	ug/L	NC	30		
3987104	F1 (C6-C10) - BTEX	2015/04/18					<25	ug/L	NC	30		
3987104	F1 (C6-C10)	2015/04/18	76	70 - 130	92	70 - 130	<25	ug/L	NC	30		
3988520	Mercury (Hg)	2015/04/20	108	80 - 120	105	80 - 120	<0.00010	mg/L	NC	20		
3988626	Total Phosphorus	2015/04/20	NC	80 - 120	100	80 - 120	<0.004	mg/L	0.49	20	102	80 - 120
3990249	Dissolved Aluminum (Al)	2015/04/22	110	80 - 120	107	80 - 120	<0.0050	mg/L	NC	20		
3990249	Dissolved Antimony (Sb)	2015/04/22	108	80 - 120	99	80 - 120	<0.00050	mg/L				
3990249	Dissolved Arsenic (As)	2015/04/22	108	80 - 120	102	80 - 120	<0.0010	mg/L				
3990249	Dissolved Barium (Ba)	2015/04/22	96	80 - 120	92	80 - 120	<0.0020	mg/L				
3990249	Dissolved Beryllium (Be)	2015/04/22	99	80 - 120	94	80 - 120	<0.00050	mg/L				
3990249	Dissolved Boron (B)	2015/04/22	94	80 - 120	93	80 - 120	<0.010	mg/L	NC	20		
3990249	Dissolved Cadmium (Cd)	2015/04/22	109	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20		
3990249	Dissolved Calcium (Ca)	2015/04/22	NC	80 - 120	105	80 - 120	<0.20	mg/L	0.98	20		
3990249	Dissolved Chromium (Cr)	2015/04/22	107	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20		
3990249	Dissolved Cobalt (Co)	2015/04/22	106	80 - 120	103	80 - 120	<0.00050	mg/L				
3990249	Dissolved Copper (Cu)	2015/04/22	103	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
3990249	Dissolved Iron (Fe)	2015/04/22	108	80 - 120	104	80 - 120	<0.10	mg/L	0.82	20		
3990249	Dissolved Lead (Pb)	2015/04/22	99	80 - 120	97	80 - 120	<0.00050	mg/L	NC	20		
3990249	Dissolved Magnesium (Mg)	2015/04/22	NC	80 - 120	106	80 - 120	<0.050	mg/L	0.36	20		
3990249	Dissolved Manganese (Mn)	2015/04/22	108	80 - 120	104	80 - 120	<0.0020	mg/L	1.0	20		
3990249	Dissolved Molybdenum (Mo)	2015/04/22	111	80 - 120	101	80 - 120	<0.00050	mg/L				
3990249	Dissolved Nickel (Ni)	2015/04/22	104	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
3990249	Dissolved Phosphorus (P)	2015/04/22	113	80 - 120	104	80 - 120	<0.10	mg/L				
3990249	Dissolved Potassium (K)	2015/04/22	113	80 - 120	109	80 - 120	<0.20	mg/L	0.30	20		
3990249	Dissolved Selenium (Se)	2015/04/22	101	80 - 120	96	80 - 120	<0.0020	mg/L				
3990249	Dissolved Silicon (Si)	2015/04/22	NC	80 - 120	103	80 - 120	<0.050	mg/L				
3990249	Dissolved Silver (Ag)	2015/04/22	75 (1)	80 - 120	101	80 - 120	<0.00010	mg/L				

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd - Clarington
Client Project #: 160900764

CLARINGTON TS-SURFACE WATER/ GROUND
Site Location: WATER
Your P.O. #: 16400NR
Sampler Initials: RD

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3990249	Dissolved Sodium (Na)	2015/04/22	NC	80 - 120	112	80 - 120	<0.10	mg/L	2.0	20		
3990249	Dissolved Strontium (Sr)	2015/04/22	NC	80 - 120	98	80 - 120	<0.0010	mg/L				
3990249	Dissolved Thallium (Tl)	2015/04/22	101	80 - 120	97	80 - 120	<0.000050	mg/L				
3990249	Dissolved Titanium (Ti)	2015/04/22	108	80 - 120	101	80 - 120	<0.0050	mg/L				
3990249	Dissolved Uranium (U)	2015/04/22	98	80 - 120	93	80 - 120	<0.00010	mg/L				
3990249	Dissolved Vanadium (V)	2015/04/22	109	80 - 120	102	80 - 120	<0.00050	mg/L				
3990249	Dissolved Zinc (Zn)	2015/04/22	105	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20		
3990249	Dissolved Zirconium (Zr)	2015/04/22	114	80 - 120	103	80 - 120	<0.0010	mg/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.

Maxxam Job #: B565881
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Stantec Consulting Ltd - Clarington
Client Project #: 160900764
Site Location: CLARINGTON TS-SURFACE WATER/ GROUND
WATER
Your P.O. #: 16400NR
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.



Maxxam Analytics International Corporation of a Maxxam Analytics
6740 Campbell Rd. 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

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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:	Quotation #: B48218	Maxxam Job #:	Bottle Order #:	508387		
Contact Name: Accounts Payable	Contact Name:	Task #:	Project #:	Project Manager:	Krystal Seedial		
Address: 49 Frederick St Kitchener ON N2H 6M7	Address:	Profit Centre:	Site #:	C#508387-01-01			
Phone: (519) 579-4410 Fax: (519) 579-6733	Phone: AS REQUESTED Fax:	Sampled By: RD + DM					
Email: Stantec.Accounts.Payable.Invoices@Stantec.com	Email:						

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
<input checked="" type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw	
<input checked="" type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____	
<input type="checkbox"/> Table _____		<input checked="" type="checkbox"/> PWQO		
		<input type="checkbox"/> Other _____		

Field Filled (please circle):	Metals (Hg/Cr VI)	Acidity, total C.V.I., Cyanide, Fluoride, total Mercury	TDS, TOC, TSS, Turbidity	O Reg 153 Petroleum Hydrocarbons (Water)	O Reg 153 PCBs (Water)	O Reg 153 Volatile Organics (Water)	RCAP - Surface Water (no filter/total metals)	SVOCs	Other Parameters
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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 Filled (please circle):	Metals (Hg/Cr VI)	Acidity, total C.V.I., Cyanide, Fluoride, total Mercury	TDS, TOC, TSS, Turbidity	O Reg 153 Petroleum Hydrocarbons (Water)	O Reg 153 PCBs (Water)	O Reg 153 Volatile Organics (Water)	RCAP - Surface Water (no filter/total metals)	SVOCs	Other Parameters	# of Bottles	Comments
1	WS-160900764-201504 13 - RD100	Apr 13/15	7:36	SW	Y	X	X	X	X	X	X	X	X		20	
2	WS-160900764-201504 13 - RD101	↓	8:42	↓	Y	X	X	X	X	X	X	X	X		20	
3	WS-160900764-201504 13 - RD102	↓	9:24	↓	Y	X	X	X	X	X	X	X	X		20	
4	WS-160900764-201504															
5	WS-160900764-201504															
6	WS-160900764-201504															
7																
8																
9																
10																

14-Apr-15 13:50
Krystal Seedial
B565881
JT3 ENV-644

RELINQUISHED BY: (Signature/Print) <i>Dan Marshall</i>	Date: (YY/MM/DD) 15/04/14	Time 13:40	RECEIVED BY: (Signature/Print) <i>John J. ...</i>	Date: (YY/MM/DD) 2015.04.14	Time 13:50	# jars used and not submitted	Laboratory Use Only				
							Time Sensitive	Temperature (°C) on Receipt 3/14/4 8/14/3 3/2/2 8/6/4	Custody Seal	Yes	No
									Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
									Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>

* 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

6/6/6

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #9197 Stantec Consulting Ltd	Contact Name: Accounts Payable	Company Name: Accounts Payable	Contact Name:	Quotation #: B48218	Task #:	Maxxam Job #:	Bottle Order #:
Address: 49 Frederick St	Address: Kitchener ON N2H 6M7	Address:	Address:	Project #: 160900764	Profit Centre:	COC #:	Project Manager:
Phone: (519) 579-4410	Fax: (519) 579-6733	Phone#:	Fax:	Site #: CLARINGTON TS-MONITORING W	Sampled By: RD + DM		Krystal Seedial
Email: Stantec.Accounts.Payable.Invoices@Stantec.com		Email: AS REQUESTED				C#508378-04-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required		
Regulation 153 (2011)			Other Regulations		Special Instructions	Field Filtered (please circle)	Metals (Hg Cr VI)	Acidity, CVI, Cyanide, Fluoride, Mercury	TDS, TOC, TSS, Turbidity	O Reg 153 Petroleum Hydrocarbons (Water)	O Reg 153 PCBs (Water)	O Reg 153 Volatile Organics (Water)	RCAP - Comprehensive (lead filtered metals)	SVOCs	Lab Filtered SVOCs	Regular (Standard) TAT:	Job Specific Rush TAT (if applies to entire submission)
<input checked="" type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw											Please provide advance notice for rush projects		
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw											Regular (Standard) TAT: (will be applied if Rush TAT is not specified)		
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality											Standard TAT = 5-7 Working days for most tests.		
<input type="checkbox"/> Table			<input type="checkbox"/> PWOD												Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		
			<input type="checkbox"/> Other												Job Specific Rush TAT (if applies to entire submission)		
Include Criteria on Certificate of Analysis (Y/N)?															Date Required _____ Time Required _____		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix											# of Bottles	Comments	
1	WG-160900764-201504 13-RD12	Apr. 13/15	12:30	GW	Y	X	X	X	X	X	X	X	X		21		
2	WG-160900764-201504 13-RD12 A		12:30											X	2		
3	WG-160900764-201504 13-RD13		14:10		Y	X	X	X	X	X	X	X	X		21		
4	WG-160900764-201504 13-RD13A		14:10											X	2		
5	WG-160900764-201504 14-RD14	Apr. 14/15	10:55	GW	Y	X	X	X	X	X	X	X	X		21		
6	WG-160900764-201504 14-RD14 A		10:55											X	2		
7	WG-160900764-201504 14-RD15		10:20		Y	X	X	X	X	X	X	X	X	X	21		
8	WG-160900764-201504 14-RD15A		10:20											X	2		
9	WG-160900764-201504 14-RD16		10:55		Y	X	X	X	X	X	X	X	X		21		
10	WG-160900764-201504 14-RD16A		10:55											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	Laboratory Use Only				
		15/04/14	13:40		2015/04/14	13:50		Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
									3/4/14 8/14/13	Present		
									3/2/14 8/16/14	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

8/3/12 6/6/16
SI 201510414