Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WELL
Your C.O.C. #: 686533-02-01, 115058

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/10/22
Report #: R5451010
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B8Q9429
Received: 2018/10/12, 09:20

Sample Matrix: Water
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	18	N/A	2018/10/18	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	18	2018/10/17	2018/10/18	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	1	2018/10/19	2018/10/19	CAM SOP-00301	EPA 8270 m
Acidity (CaCO3) in water (1)	7	N/A	2018/10/18		SM 22 2310
Alkalinity	7	N/A	2018/10/15	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	7	N/A	2018/10/16	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	3	N/A	2018/10/16		EPA 8260C m
1,3-Dichloropropene Sum	7	N/A	2018/10/18		EPA 8260C m
Chloride by Automated Colourimetry	7	N/A	2018/10/16	CAM SOP-00463	EPA 325.2 m
Conductivity	7	N/A	2018/10/15	CAM SOP-00414	SM 23 2510 m
Chromium (VI) in Water	7	N/A	2018/10/16	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	3	N/A	2018/10/15	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	4	N/A	2018/10/16	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (2)	7	N/A	2018/10/15	CAM SOP-00446	SM 23 5310 B m
Petroleum Hydrocarbons F2-F4 in Water (3)	7	2018/10/16	2018/10/16	CAM SOP-00316	CCME PHC-CWS m
Fluoride	7	2018/10/13	2018/10/15	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	7	N/A	2018/10/17	CAM SOP 00102/00408/00447	SM 2340 B
Mercury	5	2018/10/17	2018/10/17	CAM SOP-00453	EPA 7470A m
Mercury	2	2018/10/17	2018/10/18	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	7	N/A	2018/10/17	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	7	N/A	2018/10/17		
Anion and Cation Sum	7	N/A	2018/10/17		
Total Ammonia-N	7	N/A	2018/10/18	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (4)	7	N/A	2018/10/16	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	5	2018/10/16	2018/10/16	CAM SOP-00309	EPA 8082A m
Polychlorinated Biphenyl in Water	1	2018/10/16	2018/10/17	CAM SOP-00309	EPA 8082A m
Polychlorinated Biphenyl in Water	1	2018/10/17	2018/10/17	CAM SOP-00309	EPA 8082A m
pH	7	N/A	2018/10/15	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	7	N/A	2018/10/15	CAM SOP-00461	EPA 365.1 m

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

Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WELL
Your C.O.C. #: 686533-02-01, 115058

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/10/22
Report #: R5451010
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B8Q9429
Received: 2018/10/12, 09:20

Sample Matrix: Water
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Sat. pH and Langelier Index (@ 20C)	7	N/A	2018/10/17		
Sat. pH and Langelier Index (@ 4C)	7	N/A	2018/10/17		
Sulphate by Automated Colourimetry	7	N/A	2018/10/15	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	7	N/A	2018/10/17		
Total Dissolved Solids	7	2018/10/16	2018/10/17	CAM SOP-00428	SM 23 2540C m
Total Organic Carbon (TOC) (5)	7	N/A	2018/10/17	CAM SOP-00446	SM 23 5310B m
Total Suspended Solids	7	2018/10/15	2018/10/16	CAM SOP-00428	SM 23 2540D m
Turbidity	7	N/A	2018/10/15	CAM SOP-00417	SM 23 2130 B m
Volatile Organic Compounds and F1 PHCs	7	N/A	2018/10/17	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Water	3	N/A	2018/10/16	CAM SOP-00228	EPA 8260C m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing. Maxxam is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
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.

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

Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WELL
Your C.O.C. #: 686533-02-01, 115058

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/10/22
Report #: R5451010
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B8Q9429
Received: 2018/10/12, 09:20

(1) This test was performed by Maxxam Bedford
(2) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
(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

Colby Coutu
Project Manager Assistant
22 Oct 2018 12:34:57

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: RGracian@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 Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		HZR817	HZR819	HZR821		
Sampling Date		2018/10/11 10:40	2018/10/11 10:40	2018/10/11 12:50		
COC Number		686533-02-01	686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-RD04**	**WG-160900764-20181011-KR08**	**WG-160900764-20181011-RD05**	**RDL**	**QC Batch**
Calculated Parameters						
Anion Sum	me/L	5.66	5.67	4.74	N/A	5782088
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	190	180	180	1.0	5782085
Calculated TDS	mg/L	310	310	250	1.0	5782091
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.4	1.5	2.0	1.0	5782085
Cation Sum	me/L	5.55	5.53	4.57	N/A	5782088
Hardness (CaCO3)	mg/L	250	250	200	1.0	5782086
Ion Balance (% Difference)	%	1.05	1.25	1.83	N/A	5782087
Langelier Index (@ 20C)	N/A	0.426	0.444	0.330		5782089
Langelier Index (@ 4C)	N/A	0.176	0.194	0.0800		5782090
Saturation pH (@ 20C)	N/A	7.47	7.48	7.73		5782089
Saturation pH (@ 4C)	N/A	7.72	7.73	7.98		5782090
Inorganics						
Total Ammonia-N	mg/L	0.070	0.055	0.12	0.050	5785151
Conductivity	umho/cm	530	520	420	1.0	5782309
Dissolved Organic Carbon	mg/L	0.77	0.78	0.65	0.50	5782458
Orthophosphate (P)	mg/L	<0.010	<0.010	<0.010	0.010	5782504
pH	pH	7.89	7.92	8.06		5782310
Dissolved Sulphate (SO4)	mg/L	49	51	29	1.0	5782502
Alkalinity (Total as CaCO3)	mg/L	190	190	180	1.0	5782308
Dissolved Chloride (Cl-)	mg/L	30	29	15	1.0	5782500
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	5782301
Nitrate (N)	mg/L	0.43	0.45	<0.10	0.10	5782301
Nitrate + Nitrite (N)	mg/L	0.43	0.46	<0.10	0.10	5782301
Metals						
Dissolved Aluminum (Al)	mg/L	0.011	0.011	<0.0050	0.0050	5782386
Dissolved Antimony (Sb)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	5782386
Dissolved Arsenic (As)	mg/L	0.0015	0.0013	0.0016	0.0010	5782386
Dissolved Barium (Ba)	mg/L	0.11	0.11	0.11	0.0020	5782386
Dissolved Beryllium (Be)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	5782386
Dissolved Boron (B)	mg/L	0.016	0.016	0.031	0.010	5782386

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

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		HZR817	HZR819	HZR821		
Sampling Date		2018/10/11 10:40	2018/10/11 10:40	2018/10/11 12:50		
COC Number		686533-02-01	686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-RD04**	**WG-160900764-20181011-KR08**	**WG-160900764-20181011-RD05**	**RDL**	**QC Batch**
Dissolved Cadmium (Cd)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	5782386
Dissolved Calcium (Ca)	mg/L	45	44	25	0.20	5782386
Dissolved Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	5782386
Dissolved Cobalt (Co)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	5782386
Dissolved Copper (Cu)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	5782386
Dissolved Iron (Fe)	mg/L	<0.10	<0.10	0.11	0.10	5782386
Dissolved Lead (Pb)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	5782386
Dissolved Magnesium (Mg)	mg/L	34	34	33	0.050	5782386
Dissolved Manganese (Mn)	mg/L	0.013	0.014	0.0055	0.0020	5782386
Dissolved Molybdenum (Mo)	mg/L	0.0022	0.0020	0.0016	0.00050	5782386
Dissolved Nickel (Ni)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	5782386
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	0.10	5782386
Dissolved Potassium (K)	mg/L	2.8	2.8	2.4	0.20	5782386
Dissolved Selenium (Se)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	5782386
Dissolved Silicon (Si)	mg/L	11	11	10	0.050	5782386
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	5782386
Dissolved Sodium (Na)	mg/L	10	10	12	0.10	5782386
Dissolved Strontium (Sr)	mg/L	0.44	0.44	0.65	0.0010	5782386
Dissolved Thallium (Tl)	mg/L	<0.000050	<0.000050	<0.000050	0.000050	5782386
Dissolved Titanium (Ti)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	5782386
Dissolved Uranium (U)	mg/L	0.0010	0.0010	<0.00010	0.00010	5782386
Dissolved Vanadium (V)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	5782386
Dissolved Zinc (Zn)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	5782386
Dissolved Zirconium (Zr)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	5782386

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		HZR823	HZR825		
Sampling Date		2018/10/11 12:50	2018/10/11 14:33		
COC Number		686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-DS01**	**WG-160900764-20181011-RD07**	**RDL**	**QC Batch**
Calculated Parameters					
Anion Sum	me/L	4.77	5.44	N/A	5782088
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	180	200	1.0	5782085
Calculated TDS	mg/L	250	290	1.0	5782091
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.9	1.7	1.0	5782085
Cation Sum	me/L	4.51	5.12	N/A	5782088
Hardness (CaCO3)	mg/L	200	230	1.0	5782086
Ion Balance (% Difference)	%	2.82	3.06	N/A	5782087
Langelier Index (@ 20C)	N/A	0.324	0.420		5782089
Langelier Index (@ 4C)	N/A	0.0740	0.169		5782090
Saturation pH (@ 20C)	N/A	7.72	7.53		5782089
Saturation pH (@ 4C)	N/A	7.97	7.78		5782090
Inorganics					
Total Ammonia-N	mg/L	0.12	0.070	0.050	5785151
Conductivity	umho/cm	420	480	1.0	5782309
Dissolved Organic Carbon	mg/L	0.89	0.87	0.50	5782458
Orthophosphate (P)	mg/L	<0.010	<0.010	0.010	5782504
pH	pH	8.04	7.95		5782310
Dissolved Sulphate (SO4)	mg/L	28	37	1.0	5782502
Alkalinity (Total as CaCO3)	mg/L	190	200	1.0	5782308
Dissolved Chloride (Cl-)	mg/L	16	23	1.0	5782500
Nitrite (N)	mg/L	<0.010	<0.010	0.010	5782301
Nitrate (N)	mg/L	<0.10	<0.10	0.10	5782301
Nitrate + Nitrite (N)	mg/L	<0.10	<0.10	0.10	5782301
Metals					
Dissolved Aluminum (Al)	mg/L	<0.0050	0.0091	0.0050	5782386
Dissolved Antimony (Sb)	mg/L	<0.00050	<0.00050	0.00050	5782386
Dissolved Arsenic (As)	mg/L	0.0015	<0.0010	0.0010	5782386
Dissolved Barium (Ba)	mg/L	0.11	0.074	0.0020	5782386
Dissolved Beryllium (Be)	mg/L	<0.00050	<0.00050	0.00050	5782386
Dissolved Boron (B)	mg/L	0.031	0.032	0.010	5782386

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

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		HZR823	HZR825		
Sampling Date		2018/10/11 12:50	2018/10/11 14:33		
COC Number		686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-DS01**	**WG-160900764-20181011-RD07**	**RDL**	**QC Batch**
Dissolved Cadmium (Cd)	mg/L	<0.00010	<0.00010	0.00010	5782386
Dissolved Calcium (Ca)	mg/L	25	34	0.20	5782386
Dissolved Chromium (Cr)	mg/L	<0.0050	<0.0050	0.0050	5782386
Dissolved Cobalt (Co)	mg/L	<0.00050	<0.00050	0.00050	5782386
Dissolved Copper (Cu)	mg/L	<0.0010	<0.0010	0.0010	5782386
Dissolved Iron (Fe)	mg/L	0.11	<0.10	0.10	5782386
Dissolved Lead (Pb)	mg/L	<0.00050	<0.00050	0.00050	5782386
Dissolved Magnesium (Mg)	mg/L	33	34	0.050	5782386
Dissolved Manganese (Mn)	mg/L	0.0052	0.025	0.0020	5782386
Dissolved Molybdenum (Mo)	mg/L	0.0016	0.0045	0.00050	5782386
Dissolved Nickel (Ni)	mg/L	<0.0010	<0.0010	0.0010	5782386
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	0.10	5782386
Dissolved Potassium (K)	mg/L	2.4	3.2	0.20	5782386
Dissolved Selenium (Se)	mg/L	<0.0020	<0.0020	0.0020	5782386
Dissolved Silicon (Si)	mg/L	11	9.8	0.050	5782386
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	5782386
Dissolved Sodium (Na)	mg/L	12	12	0.10	5782386
Dissolved Strontium (Sr)	mg/L	0.64	0.60	0.0010	5782386
Dissolved Thallium (Tl)	mg/L	<0.000050	<0.000050	0.000050	5782386
Dissolved Titanium (Ti)	mg/L	<0.0050	<0.0050	0.0050	5782386
Dissolved Uranium (U)	mg/L	<0.00010	0.0012	0.00010	5782386
Dissolved Vanadium (V)	mg/L	<0.00050	<0.00050	0.00050	5782386
Dissolved Zinc (Zn)	mg/L	<0.0050	<0.0050	0.0050	5782386
Dissolved Zirconium (Zr)	mg/L	<0.0010	<0.0010	0.0010	5782386

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		HZR825			HZR827		
Sampling Date		2018/10/11 14:33			2018/10/11 15:45		
COC Number		686533-02-01			115058		
	UNITS	**WG-160900764-20181011-RD07 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20181011-RD06**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L				7.62	N/A	5782088
Bicarb. Alkalinity (calc. as CaCO3)	mg/L				200	1.0	5782085
Calculated TDS	mg/L				440	1.0	5782091
Carb. Alkalinity (calc. as CaCO3)	mg/L				1.5	1.0	5782085
Cation Sum	me/L				7.41	N/A	5782088
Hardness (CaCO3)	mg/L				350	1.0	5782086
Ion Balance (% Difference)	%				1.44	N/A	5782087
Langelier Index (@ 20C)	N/A				0.696		5782089
Langelier Index (@ 4C)	N/A				0.447		5782090
Saturation pH (@ 20C)	N/A				7.20		5782089
Saturation pH (@ 4C)	N/A				7.45		5782090
Inorganics							
Total Ammonia-N	mg/L				0.058	0.050	5785151
Conductivity	umho/cm				690	1.0	5782309
Dissolved Organic Carbon	mg/L	0.82	0.50	5782458	0.98	0.50	5782458
Orthophosphate (P)	mg/L				<0.010	0.010	5782504
pH	pH				7.90		5782310
Dissolved Sulphate (SO4)	mg/L				100	1.0	5782502
Alkalinity (Total as CaCO3)	mg/L				210	1.0	5782308
Dissolved Chloride (Cl-)	mg/L				24	1.0	5782500
Nitrite (N)	mg/L				0.057	0.010	5782301
Nitrate (N)	mg/L				9.25	0.10	5782301
Nitrate + Nitrite (N)	mg/L				9.30	0.10	5782301
Metals							
Dissolved Aluminum (Al)	mg/L				<0.0050	0.0050	5782386
Dissolved Antimony (Sb)	mg/L				<0.00050	0.00050	5782386
Dissolved Arsenic (As)	mg/L				<0.0010	0.0010	5782386
Dissolved Barium (Ba)	mg/L				0.067	0.0020	5782386
Dissolved Beryllium (Be)	mg/L				<0.00050	0.00050	5782386

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

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		HZR825			HZR827		
Sampling Date		2018/10/11 14:33			2018/10/11 15:45		
COC Number		686533-02-01			115058		
	UNITS	**WG-160900764-20181011-RD07 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20181011-RD06**	**RDL**	**QC Batch**
Dissolved Boron (B)	mg/L				0.015	0.010	5782386
Dissolved Cadmium (Cd)	mg/L				<0.00010	0.00010	5782386
Dissolved Calcium (Ca)	mg/L				86	0.20	5782386
Dissolved Chromium (Cr)	mg/L				<0.0050	0.0050	5782386
Dissolved Cobalt (Co)	mg/L				<0.00050	0.00050	5782386
Dissolved Copper (Cu)	mg/L				<0.0010	0.0010	5782386
Dissolved Iron (Fe)	mg/L				<0.10	0.10	5782386
Dissolved Lead (Pb)	mg/L				<0.00050	0.00050	5782386
Dissolved Magnesium (Mg)	mg/L				34	0.050	5782386
Dissolved Manganese (Mn)	mg/L				0.0033	0.0020	5782386
Dissolved Molybdenum (Mo)	mg/L				0.0038	0.00050	5782386
Dissolved Nickel (Ni)	mg/L				<0.0010	0.0010	5782386
Dissolved Phosphorus (P)	mg/L				<0.10	0.10	5782386
Dissolved Potassium (K)	mg/L				3.8	0.20	5782386
Dissolved Selenium (Se)	mg/L				<0.0020	0.0020	5782386
Dissolved Silicon (Si)	mg/L				6.6	0.050	5782386
Dissolved Silver (Ag)	mg/L				<0.00010	0.00010	5782386
Dissolved Sodium (Na)	mg/L				5.8	0.10	5782386
Dissolved Strontium (Sr)	mg/L				0.34	0.0010	5782386
Dissolved Thallium (Tl)	mg/L				<0.000050	0.000050	5782386
Dissolved Titanium (Ti)	mg/L				<0.0050	0.0050	5782386
Dissolved Uranium (U)	mg/L				0.0031	0.00010	5782386
Dissolved Vanadium (V)	mg/L				<0.00050	0.00050	5782386
Dissolved Zinc (Zn)	mg/L				<0.0050	0.0050	5782386
Dissolved Zirconium (Zr)	mg/L				<0.0010	0.0010	5782386

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

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		HZR829		
Sampling Date		2018/10/11 16:20		
COC Number		115058		
	UNITS	**WG-160900764-20181011-RD08**	**RDL**	**QC Batch**
Calculated Parameters				
Anion Sum	me/L	13.6	N/A	5782088
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	150	1.0	5782085
Calculated TDS	mg/L	890	1.0	5782091
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.2	1.0	5782085
Cation Sum	me/L	14.2	N/A	5782088
Hardness (CaCO3)	mg/L	340	1.0	5782086
Ion Balance (% Difference)	%	1.96	N/A	5782087
Langelier Index (@ 20C)	N/A	0.473		5782089
Langelier Index (@ 4C)	N/A	0.227		5782090
Saturation pH (@ 20C)	N/A	7.43		5782089
Saturation pH (@ 4C)	N/A	7.68		5782090
Inorganics				
Total Ammonia-N	mg/L	0.051	0.050	5785151
Conductivity	umho/cm	1300	1.0	5782309
Dissolved Organic Carbon	mg/L	1.9	0.50	5782458
Orthophosphate (P)	mg/L	<0.010	0.010	5782504
pH	pH	7.90		5782310
Dissolved Sulphate (SO4)	mg/L	480	5.0	5782502
Alkalinity (Total as CaCO3)	mg/L	150	1.0	5782308
Dissolved Chloride (Cl-)	mg/L	19	1.0	5782500
Nitrite (N)	mg/L	<0.010	0.010	5782301
Nitrate (N)	mg/L	<0.10	0.10	5782301
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	5782301
Metals				
Dissolved Aluminum (Al)	mg/L	<0.0050	0.0050	5782386
Dissolved Antimony (Sb)	mg/L	<0.00050	0.00050	5782386
Dissolved Arsenic (As)	mg/L	<0.0010	0.0010	5782386
Dissolved Barium (Ba)	mg/L	0.019	0.0020	5782386
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	5782386
Dissolved Boron (B)	mg/L	0.27	0.010	5782386

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

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		HZR829		
Sampling Date		2018/10/11 16:20		
COC Number		115058		
	UNITS	**WG-160900764-20181011-RD08**	**RDL**	**QC Batch**
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	5782386
Dissolved Calcium (Ca)	mg/L	82	0.20	5782386
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	5782386
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	5782386
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	5782386
Dissolved Iron (Fe)	mg/L	<0.10	0.10	5782386
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	5782386
Dissolved Magnesium (Mg)	mg/L	33	0.050	5782386
Dissolved Manganese (Mn)	mg/L	<0.0020	0.0020	5782386
Dissolved Molybdenum (Mo)	mg/L	0.082	0.00050	5782386
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	5782386
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	5782386
Dissolved Potassium (K)	mg/L	4.5	0.20	5782386
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	5782386
Dissolved Silicon (Si)	mg/L	3.8	0.050	5782386
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	5782386
Dissolved Sodium (Na)	mg/L	170	0.10	5782386
Dissolved Strontium (Sr)	mg/L	1.4	0.0010	5782386
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	5782386
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	5782386
Dissolved Uranium (U)	mg/L	0.0044	0.00010	5782386
Dissolved Vanadium (V)	mg/L	<0.00050	0.00050	5782386
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	5782386
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	5782386

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

RESULTS OF ANALYSES OF WATER

Maxxam ID		HZR817		HZR819			HZR819		
Sampling Date		2018/10/11 10:40		2018/10/11 10:40			2018/10/11 10:40		
COC Number		686533-02-01		686533-02-01			686533-02-01		
	UNITS	**WG-160900764-20181011-RD04**	**QC Batch**	**WG-160900764-20181011-KR08**	**RDL**	**QC Batch**	**WG-160900764-20181011-KR08 Lab-Dup**	**RDL**	**QC Batch**
Inorganics									
Acidity	mg/L	5.2	5789563	5.8	5.0	5789563			
Total Dissolved Solids	mg/L	210	5783404	230	10	5783404			
Fluoride (F-)	mg/L	0.21	5782307	0.19	0.10	5782307			
Total Organic Carbon (TOC)	mg/L	0.87	5785265	0.82	0.50	5785265			
Total Suspended Solids	mg/L	<10	5783396	<10	10	5783396	<10	10	5783396
Turbidity	NTU	0.4	5782255	0.4	0.1	5782255			
WAD Cyanide (Free)	ug/L	<1	5783626	<1	1	5785257	<1	1	5785257

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

Maxxam ID		HZR821		HZR823			HZR823		
Sampling Date		2018/10/11 12:50		2018/10/11 12:50			2018/10/11 12:50		
COC Number		686533-02-01		686533-02-01			686533-02-01		
	UNITS	**WG-160900764-20181011-RD05**	**QC Batch**	**WG-160900764-20181011-DS01**	**RDL**	**QC Batch**	**WG-160900764-20181011-DS01 Lab-Dup**	**RDL**	**QC Batch**
Inorganics									
Acidity	mg/L	<5.0	5789563	<5.0	5.0	5789563			
Total Dissolved Solids	mg/L	205	5783404	175	10	5783404	150	10	5783404
Fluoride (F-)	mg/L	0.27	5782307	0.27	0.10	5782307			
Total Organic Carbon (TOC)	mg/L	0.70	5785265	0.71	0.50	5785265			
Total Suspended Solids	mg/L	<10	5783396	10	10	5783396			
Turbidity	NTU	3.4	5782255	5.1	0.1	5782255			
WAD Cyanide (Free)	ug/L	<1	5785257	<1	1	5783559			

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

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

RESULTS OF ANALYSES OF WATER

Maxxam ID		HZR825	HZR827		HZR829		
Sampling Date		2018/10/11 14:33	2018/10/11 15:45		2018/10/11 16:20		
COC Number		686533-02-01	115058		115058		
	UNITS	**WG-160900764-20181011-RD07**	**WG-160900764-20181011-RD06**	**QC Batch**	**WG-160900764-20181011-RD08**	**RDL**	**QC Batch**
Inorganics							
Acidity	mg/L	<5.0	6.8	5789563	8.4	5.0	5789563
Total Dissolved Solids	mg/L	155	410	5783404	860	10	5783404
Fluoride (F-)	mg/L	0.28	0.13	5782307	0.40	0.10	5782307
Total Organic Carbon (TOC)	mg/L	0.98	1.1	5785265	2.0	0.50	5785265
Total Suspended Solids	mg/L	24	<10	5783396	260	10	5783396
Turbidity	NTU	9.4	1.2	5782255	9.2	0.1	5782255
WAD Cyanide (Free)	ug/L	<1	<1	5785257	<1	1	5783559

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		HZR817	HZR819		HZR821		
Sampling Date		2018/10/11 10:40	2018/10/11 10:40		2018/10/11 12:50		
COC Number		686533-02-01	686533-02-01		686533-02-01		
	UNITS	**WG-160900764-20181011-RD04**	**WG-160900764-20181011-KR08**	**QC Batch**	**WG-160900764-20181011-RD05**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	<0.50	<0.50	5783907	<0.50	0.50	5783907
Mercury (Hg)	ug/L	<0.1	<0.1	5787416	<0.1	0.1	5788502

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HZR823		HZR825	HZR827		
Sampling Date		2018/10/11 12:50		2018/10/11 14:33	2018/10/11 15:45		
COC Number		686533-02-01		686533-02-01	115058		
	UNITS	**WG-160900764-20181011-DS01**	**QC Batch**	**WG-160900764-20181011-RD07**	**WG-160900764-20181011-RD06**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	<0.50	5783907	<0.50	<0.50	0.50	5783907
Mercury (Hg)	ug/L	<0.1	5788502	<0.1	<0.1	0.1	5787416

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HZR829		
Sampling Date		2018/10/11 16:20		
COC Number		115058		
	UNITS	**WG-160900764-20181011-RD08**	**RDL**	**QC Batch**
Metals				
Chromium (VI)	ug/L	<0.50	0.50	5783907
Mercury (Hg)	ug/L	<0.1	0.1	5787416

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 PCBS (WATER)

Maxxam ID		HZR817	HZR819	HZR821		
Sampling Date		2018/10/11 10:40	2018/10/11 10:40	2018/10/11 12:50		
COC Number		686533-02-01	686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-RD04**	**WG-160900764-20181011-KR08**	**WG-160900764-20181011-RD05**	**RDL**	**QC Batch**
PCBs						
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	0.05	5785797
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	0.05	5785797
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	0.05	5785797
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	0.05	5785797
Total PCB	ug/L	<0.05	<0.05	<0.05	0.05	5785797
Surrogate Recovery (%)						
Decachlorobiphenyl	%	87	74	86		5785797

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HZR823		HZR825	HZR827		
Sampling Date		2018/10/11 12:50		2018/10/11 14:33	2018/10/11 15:45		
COC Number		686533-02-01		686533-02-01	115058		
	UNITS	**WG-160900764-20181011-DS01**	**QC Batch**	**WG-160900764-20181011-RD07**	**WG-160900764-20181011-RD06**	**RDL**	**QC Batch**
PCBs							
Aroclor 1242	ug/L	<0.05	5787707	<0.05	<0.05	0.05	5785797
Aroclor 1248	ug/L	<0.05	5787707	<0.05	<0.05	0.05	5785797
Aroclor 1254	ug/L	<0.05	5787707	<0.05	<0.05	0.05	5785797
Aroclor 1260	ug/L	<0.05	5787707	<0.05	<0.05	0.05	5785797
Total PCB	ug/L	<0.05	5787707	<0.05	<0.05	0.05	5785797
Surrogate Recovery (%)							
Decachlorobiphenyl	%	82	5787707	90	79		5785797

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 PCBS (WATER)

Maxxam ID		HZR829		
Sampling Date		2018/10/11 16:20		
COC Number		115058		
	UNITS	**WG-160900764-20181011-RD08**	**RDL**	**QC Batch**
PCBs				
Aroclor 1242	ug/L	<0.05	0.05	5785797
Aroclor 1248	ug/L	<0.05	0.05	5785797
Aroclor 1254	ug/L	<0.05	0.05	5785797
Aroclor 1260	ug/L	<0.05	0.05	5785797
Total PCB	ug/L	<0.05	0.05	5785797
Surrogate Recovery (%)				
Decachlorobiphenyl	%	78		5785797

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		HZR817	HZR819			HZR819		
Sampling Date		2018/10/11 10:40	2018/10/11 10:40			2018/10/11 10:40		
COC Number		686533-02-01	686533-02-01			686533-02-01		
	UNITS	**WG-160900764-20181011-RD04**	**WG-160900764-20181011-KR08**	**RDL**	**QC Batch**	**WG-160900764-20181011-KR08 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	5781994			
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	10	5780922			
Benzene	ug/L	<0.20	<0.20	0.20	5780922			
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	5780922			
Bromoform	ug/L	<1.0	<1.0	1.0	5780922			
Bromomethane	ug/L	<0.50	<0.50	0.50	5780922			
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	5780922			
Chlorobenzene	ug/L	<0.20	<0.20	0.20	5780922			
Chloroform	ug/L	<0.20	<0.20	0.20	5780922			
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	5780922			
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5780922			
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5780922			
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5780922			
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	5780922			
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	5780922			
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	5780922			
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	5780922			
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5780922			
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5780922			
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	5780922			
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	5780922			
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	5780922			
Ethylbenzene	ug/L	<0.20	<0.20	0.20	5780922			
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	5780922			
Hexane	ug/L	<1.0	<1.0	1.0	5780922			
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	5780922			
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	5780922			
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	5780922			
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	5780922			

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

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		HZR817	HZR819			HZR819		
Sampling Date		2018/10/11 10:40	2018/10/11 10:40			2018/10/11 10:40		
COC Number		686533-02-01	686533-02-01			686533-02-01		
	UNITS	**WG-160900764-20181011-RD04**	**WG-160900764-20181011-KR08**	**RDL**	**QC Batch**	**WG-160900764-20181011-KR08 Lab-Dup**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	0.50	5780922			
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5780922			
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5780922			
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	5780922			
Toluene	ug/L	<0.20	<0.20	0.20	5780922			
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	5780922			
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	5780922			
Trichloroethylene	ug/L	<0.20	<0.20	0.20	5780922			
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	5780922			
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	5780922			
p+m-Xylene	ug/L	<0.20	<0.20	0.20	5780922			
o-Xylene	ug/L	<0.20	<0.20	0.20	5780922			
Total Xylenes	ug/L	<0.20	<0.20	0.20	5780922			
F1 (C6-C10)	ug/L	<25	<25	25	5780922			
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	5780922			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	5785169	<100	100	5785169
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	5785169	<200	200	5785169
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	5785169	<200	200	5785169
Reached Baseline at C50	ug/L	Yes	Yes		5785169	Yes		5785169
Surrogate Recovery (%)								
o-Terphenyl	%	96	106		5785169	99		5785169
4-Bromofluorobenzene	%	96	96		5780922			
D4-1,2-Dichloroethane	%	104	105		5780922			
D8-Toluene	%	102	102		5780922			

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

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		HZR821	HZR823	HZR825		
Sampling Date		2018/10/11 12:50	2018/10/11 12:50	2018/10/11 14:33		
COC Number		686533-02-01	686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-RD05**	**WG-160900764-20181011-DS01**	**WG-160900764-20181011-RD07**	**RDL**	**QC Batch**
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	5781994
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	5780922
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	5780922
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5780922
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	5780922
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	5780922
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	5780922
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	5780922
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	5780922
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5780922
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5780922
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5780922
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5780922
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	5780922
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5780922
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5780922
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5780922
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5780922
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5780922
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	5780922
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	5780922
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	5780922
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	5780922
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	5780922
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	5780922
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	5780922
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	5780922
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	5780922
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	5780922

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		HZR821	HZR823	HZR825		
Sampling Date		2018/10/11 12:50	2018/10/11 12:50	2018/10/11 14:33		
COC Number		686533-02-01	686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-RD05**	**WG-160900764-20181011-DS01**	**WG-160900764-20181011-RD07**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	5780922
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5780922
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5780922
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5780922
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	5780922
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5780922
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5780922
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5780922
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	5780922
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	5780922
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5780922
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5780922
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	5780922
F1 (C6-C10)	ug/L	<25	<25	<25	25	5780922
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	5780922
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	5785169
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	5785169
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	5785169
Reached Baseline at C50	ug/L	Yes	Yes	Yes		5785169
Surrogate Recovery (%)						
o-Terphenyl	%	97	98	106		5785169
4-Bromofluorobenzene	%	96	95	95		5780922
D4-1,2-Dichloroethane	%	104	104	107		5780922
D8-Toluene	%	102	102	101		5780922

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		HZR827	HZR829		
Sampling Date		2018/10/11 15:45	2018/10/11 16:20		
COC Number		115058	115058		
	UNITS	**WG-160900764-20181011-RD06**	**WG-160900764-20181011-RD08**	**RDL**	**QC Batch**
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	5781994
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	5780922
Benzene	ug/L	<0.20	<0.20	0.20	5780922
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	5780922
Bromoform	ug/L	<1.0	<1.0	1.0	5780922
Bromomethane	ug/L	<0.50	<0.50	0.50	5780922
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	5780922
Chlorobenzene	ug/L	<0.20	<0.20	0.20	5780922
Chloroform	ug/L	<0.20	<0.20	0.20	5780922
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	5780922
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5780922
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5780922
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5780922
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	5780922
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	5780922
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	5780922
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	5780922
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5780922
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5780922
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	5780922
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	5780922
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	5780922
Ethylbenzene	ug/L	<0.20	<0.20	0.20	5780922
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	5780922
Hexane	ug/L	<1.0	<1.0	1.0	5780922
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	5780922
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	42	10	5780922
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	5780922
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	5780922

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		HZR827	HZR829		
Sampling Date		2018/10/11 15:45	2018/10/11 16:20		
COC Number		115058	115058		
	UNITS	**WG-160900764-20181011-RD06**	**WG-160900764-20181011-RD08**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	0.50	5780922
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5780922
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5780922
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	5780922
Toluene	ug/L	<0.20	<0.20	0.20	5780922
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	5780922
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	5780922
Trichloroethylene	ug/L	<0.20	<0.20	0.20	5780922
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	5780922
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	5780922
p+m-Xylene	ug/L	<0.20	<0.20	0.20	5780922
o-Xylene	ug/L	<0.20	<0.20	0.20	5780922
Total Xylenes	ug/L	<0.20	<0.20	0.20	5780922
F1 (C6-C10)	ug/L	<25	<25	25	5780922
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	5780922
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	5785169
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	5785169
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	5785169
Reached Baseline at C50	ug/L	Yes	Yes		5785169
Surrogate Recovery (%)					
o-Terphenyl	%	98	98		5785169
4-Bromofluorobenzene	%	95	95		5780922
D4-1,2-Dichloroethane	%	105	106		5780922
D8-Toluene	%	102	102		5780922

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR817			HZR817		
Sampling Date		2018/10/11 10:40			2018/10/11 10:40		
COC Number		686533-02-01			686533-02-01		
	UNITS	**WG-160900764-20181011-RD04**	**RDL**	**QC Batch**	**WG-160900764-20181011-RD04 Lab-Dup**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	0.1	5788241	<0.1	0.1	5788241
1-Methylnaphthalene	ug/L	<0.2	0.2	5788241	<0.2	0.2	5788241
2,4,5-Trichlorophenol	ug/L	<0.2	0.2	5788241	<0.2	0.2	5788241
2,4,6-Trichlorophenol	ug/L	<0.2	0.2	5788241	<0.2	0.2	5788241
2,4-Dichlorophenol	ug/L	<0.1	0.1	5788241	<0.1	0.1	5788241
2,4-Dimethylphenol	ug/L	<0.5	0.5	5788241	<0.5	0.5	5788241
2,4-Dinitrophenol	ug/L	<2	2	5788241	<2	2	5788241
2,4-Dinitrotoluene	ug/L	<0.3	0.3	5788241	<0.3	0.3	5788241
2,6-Dinitrotoluene	ug/L	<0.3	0.3	5788241	<0.3	0.3	5788241
2-Chlorophenol	ug/L	<0.1	0.1	5788241	<0.1	0.1	5788241
2-Methylnaphthalene	ug/L	<0.2	0.2	5788241	<0.2	0.2	5788241
3,3'-Dichlorobenzidine	ug/L	<0.5	0.5	5788241	<0.5	0.5	5788241
Acenaphthene	ug/L	<0.2	0.2	5788241	<0.2	0.2	5788241
Acenaphthylene	ug/L	<0.2	0.2	5788241	<0.2	0.2	5788241
Anthracene	ug/L	<0.05	0.05	5788241	<0.05	0.05	5788241
Benzo(a)anthracene	ug/L	<0.05	0.05	5788241	<0.05	0.05	5788241
Benzo(a)pyrene	ug/L	<0.01	0.01	5788241	<0.01	0.01	5788241
Benzo(b/j)fluoranthene	ug/L	<0.05	0.05	5788241	<0.05	0.05	5788241
Benzo(g,h,i)perylene	ug/L	<0.05	0.05	5788241	<0.05	0.05	5788241
Benzo(k)fluoranthene	ug/L	<0.05	0.05	5788241	<0.05	0.05	5788241
Biphenyl	ug/L	<0.1	0.1	5788241	<0.1	0.1	5788241
Bis(2-chloroethyl)ether	ug/L	<0.5	0.5	5788241	<0.5	0.5	5788241
Bis(2-chloroisopropyl)ether	ug/L	<0.5	0.5	5788241	<0.5	0.5	5788241
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	5788241	<1	1	5788241
Chrysene	ug/L	<0.05	0.05	5788241	<0.05	0.05	5788241
Dibenz(a,h)anthracene	ug/L	<0.1	0.1	5788241	<0.1	0.1	5788241
Diethyl phthalate	ug/L	<0.1	0.1	5788241	<0.1	0.1	5788241
Dimethyl phthalate	ug/L	<0.1	0.1	5788241	<0.1	0.1	5788241
Fluoranthene	ug/L	<0.2	0.2	5788241	<0.2	0.2	5788241
Fluorene	ug/L	<0.2	0.2	5788241	<0.2	0.2	5788241

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

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR817			HZR817		
Sampling Date		2018/10/11 10:40			2018/10/11 10:40		
COC Number		686533-02-01			686533-02-01		
	UNITS	**WG-160900764-20181011-RD04**	**RDL**	**QC Batch**	**WG-160900764-20181011-RD04 Lab-Dup**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	0.1	5788241	<0.1	0.1	5788241
Naphthalene	ug/L	<0.2	0.2	5788241	<0.2	0.2	5788241
p-Chloroaniline	ug/L	<1	1	5788241	<1	1	5788241
Pentachlorophenol	ug/L	<0.1	0.1	5788241	<0.1	0.1	5788241
Phenanthrene	ug/L	<0.1	0.1	5788241	<0.1	0.1	5788241
Phenol	ug/L	<0.5	0.5	5788241	<0.5	0.5	5788241
Pyrene	ug/L	<0.05	0.05	5788241	<0.05	0.05	5788241
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	0.28	5782084			
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	47 (1)		5788241	52		5788241
2-Fluorobiphenyl	%	46 (1)		5788241	48 (1)		5788241
D14-Terphenyl (FS)	%	96		5788241	96		5788241
D5-Nitrobenzene	%	64		5788241	69		5788241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR818	HZR819	HZR820	HZR821		
Sampling Date		2018/10/11 10:40	2018/10/11 10:40	2018/10/11 10:40	2018/10/11 12:50		
COC Number		686533-02-01	686533-02-01	686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-RD04A**	**WG-160900764-20181011-KR08**	**WG-160900764-20181011-KR08A**	**WG-160900764-20181011-RD05**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5788241
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	5788241
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5788241
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5788241
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5788241
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	5788241
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5788241
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5788241
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	5788241
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR818	HZR819	HZR820	HZR821		
Sampling Date		2018/10/11 10:40	2018/10/11 10:40	2018/10/11 10:40	2018/10/11 12:50		
COC Number		686533-02-01	686533-02-01	686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-RD04A**	**WG-160900764-20181011-KR08**	**WG-160900764-20181011-KR08A**	**WG-160900764-20181011-RD05**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	5788241
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5788241
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	5782084
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	43 (1)	67	54	48 (1)		5788241
2-Fluorobiphenyl	%	62	54	53	46 (1)		5788241
D14-Terphenyl (FS)	%	9.5 (1)	97	20 (1)	96		5788241
D5-Nitrobenzene	%	66	76	67	66		5788241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR822	HZR823	HZR824		
Sampling Date		2018/10/11 12:50	2018/10/11 12:50	2018/10/11 12:50		
COC Number		686533-02-01	686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-RD05A**	**WG-160900764-20181011-DS01**	**WG-160900764-20181011-DS01A**	**RDL**	**QC Batch**
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	5788241
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5788241
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	5788241
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	5788241
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5788241
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	5788241
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	5788241
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	5788241
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	5788241
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5788241
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5788241
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	5788241
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	5788241
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	5788241
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	5788241
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	5788241
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	5788241
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	5788241
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	5788241
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	5788241
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	5788241
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	5788241
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	5788241
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	5788241
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	5788241
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	5788241
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	5788241
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	5788241
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	5788241
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	5788241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR822	HZR823	HZR824		
Sampling Date		2018/10/11 12:50	2018/10/11 12:50	2018/10/11 12:50		
COC Number		686533-02-01	686533-02-01	686533-02-01		
	UNITS	**WG-160900764-20181011-RD05A**	**WG-160900764-20181011-DS01**	**WG-160900764-20181011-DS01A**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	0.1	5788241
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5788241
p-Chloroaniline	ug/L	<1	<1	<1	1	5788241
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5788241
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	5788241
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	5788241
Pyrene	ug/L	<0.05	<0.05	<0.05	0.05	5788241
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	0.28	5782084
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	50	63	74		5788241
2-Fluorobiphenyl	%	47 (1)	54	55		5788241
D14-Terphenyl (FS)	%	8.4 (1)	97	15 (1)		5788241
D5-Nitrobenzene	%	62	76	68		5788241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR825		HZR826	HZR827		
Sampling Date		2018/10/11 14:33		2018/10/11 14:33	2018/10/11 15:45		
COC Number		686533-02-01		686533-02-01	115058		
	UNITS	**WG-160900764-20181011-RD07**	**QC Batch**	**WG-160900764-20181011-RD07A**	**WG-160900764-20181011-RD06**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	5792235	<0.1	<0.1	0.1	5788241
1-Methylnaphthalene	ug/L	<0.2	5792235	<0.2	<0.2	0.2	5788241
2,4,5-Trichlorophenol	ug/L	<0.2	5792235	<0.2	<0.2	0.2	5788241
2,4,6-Trichlorophenol	ug/L	<0.2	5792235	<0.2	<0.2	0.2	5788241
2,4-Dichlorophenol	ug/L	<0.1	5792235	<0.1	<0.1	0.1	5788241
2,4-Dimethylphenol	ug/L	<0.5	5792235	<0.5	<0.5	0.5	5788241
2,4-Dinitrophenol	ug/L	<2	5792235	<2	<2	2	5788241
2,4-Dinitrotoluene	ug/L	<0.3	5792235	<0.3	<0.3	0.3	5788241
2,6-Dinitrotoluene	ug/L	<0.3	5792235	<0.3	<0.3	0.3	5788241
2-Chlorophenol	ug/L	<0.1	5792235	<0.1	<0.1	0.1	5788241
2-Methylnaphthalene	ug/L	<0.2	5792235	<0.2	<0.2	0.2	5788241
3,3'-Dichlorobenzidine	ug/L	<0.5	5792235	<0.5	<0.5	0.5	5788241
Acenaphthene	ug/L	<0.2	5792235	<0.2	<0.2	0.2	5788241
Acenaphthylene	ug/L	<0.2	5792235	<0.2	<0.2	0.2	5788241
Anthracene	ug/L	<0.05	5792235	<0.05	<0.05	0.05	5788241
Benzo(a)anthracene	ug/L	<0.05	5792235	<0.05	<0.05	0.05	5788241
Benzo(a)pyrene	ug/L	<0.01	5792235	<0.01	<0.01	0.01	5788241
Benzo(b/j)fluoranthene	ug/L	<0.05	5792235	<0.05	<0.05	0.05	5788241
Benzo(g,h,i)perylene	ug/L	<0.05	5792235	<0.05	<0.05	0.05	5788241
Benzo(k)fluoranthene	ug/L	<0.05	5792235	<0.05	<0.05	0.05	5788241
Biphenyl	ug/L	<0.1	5792235	<0.1	<0.1	0.1	5788241
Bis(2-chloroethyl)ether	ug/L	<0.5	5792235	<0.5	<0.5	0.5	5788241
Bis(2-chloroisopropyl)ether	ug/L	<0.5	5792235	<0.5	<0.5	0.5	5788241
Bis(2-ethylhexyl)phthalate	ug/L	<1	5792235	<1	<1	1	5788241
Chrysene	ug/L	<0.05	5792235	<0.05	<0.05	0.05	5788241
Dibenz(a,h)anthracene	ug/L	<0.1	5792235	<0.1	<0.1	0.1	5788241
Diethyl phthalate	ug/L	<0.1	5792235	<0.1	<0.1	0.1	5788241
Dimethyl phthalate	ug/L	<0.1	5792235	<0.1	<0.1	0.1	5788241
Fluoranthene	ug/L	<0.2	5792235	<0.2	<0.2	0.2	5788241
Fluorene	ug/L	<0.2	5792235	<0.2	<0.2	0.2	5788241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR825		HZR826	HZR827		
Sampling Date		2018/10/11 14:33		2018/10/11 14:33	2018/10/11 15:45		
COC Number		686533-02-01		686533-02-01	115058		
	UNITS	**WG-160900764-20181011-RD07**	**QC Batch**	**WG-160900764-20181011-RD07A**	**WG-160900764-20181011-RD06**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	5792235	<0.1	<0.1	0.1	5788241
Naphthalene	ug/L	<0.2	5792235	<0.2	<0.2	0.2	5788241
p-Chloroaniline	ug/L	<1	5792235	<1	<1	1	5788241
Pentachlorophenol	ug/L	<0.1	5792235	<0.1	<0.1	0.1	5788241
Phenanthrene	ug/L	<0.1	5792235	<0.1	<0.1	0.1	5788241
Phenol	ug/L	<0.5	5792235	<0.5	<0.5	0.5	5788241
Pyrene	ug/L	<0.05	5792235	<0.05	<0.05	0.05	5788241
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	5782084	<0.28	<0.28	0.28	5782084
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	67	5792235	56	44 (1)		5788241
2-Fluorobiphenyl	%	40 (1)	5792235	47 (1)	38 (1)		5788241
D14-Terphenyl (FS)	%	99	5792235	5.8 (1)	96		5788241
D5-Nitrobenzene	%	50	5792235	61	51		5788241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR828	HZR829	HZR830	HZR831		
Sampling Date		2018/10/11 15:45	2018/10/11 16:20	2018/10/11 16:20	2018/10/11 14:55		
COC Number		115058	115058	115058	115058		
	UNITS	**WG-160900764-20181011-RD06A**	**WG-160900764-20181011-RD08**	**WG-160900764-20181011-RD08A**	**EQUIPMENT BLANK**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5788241
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	5788241
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5788241
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5788241
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5788241
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Benzo(a)pyrene	ug/L	<0.01	0.02	<0.01	<0.01	0.01	5788241
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5788241
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5788241
Bis(2-ethylhexyl)phthalate	ug/L	<1	3	<1	<1	1	5788241
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR828	HZR829	HZR830	HZR831		
Sampling Date		2018/10/11 15:45	2018/10/11 16:20	2018/10/11 16:20	2018/10/11 14:55		
COC Number		115058	115058	115058	115058		
	UNITS	**WG-160900764-20181011-RD06A**	**WG-160900764-20181011-RD08**	**WG-160900764-20181011-RD08A**	**EQUIPMENT BLANK**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5788241
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	5788241
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5788241
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5788241
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5788241
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	5782084
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	35 (1)	43 (1)	64	48 (1)		5788241
2-Fluorobiphenyl	%	54	57	67	70		5788241
D14-Terphenyl (FS)	%	9.1 (1)	101	7.0 (1)	101		5788241
D5-Nitrobenzene	%	62	72	77	70		5788241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR832	HZR833	HZZ934			HZZ935		
Sampling Date		2018/10/11 16:00	2018/10/11	2018/10/11			2018/10/11		
COC Number		115058	115058	115058			115058		
	UNITS	FIELD BLANK	TRIP BLANK	FILTERED BLANK	RDL	QC Batch	FILTERED SPIKE	RDL	QC Batch
Semivolatile Organics									
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	5788241	42 (1)	1	5788241
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5788241	72	1	5788241
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	5788241	93	1	5788241
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	5788241	79	1	5788241
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5788241	83	1	5788241
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	5788241	30 (1)	1	5788241
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	5788241	77	1	5788241
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	5788241	99	1	5788241
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	5788241	93	1	5788241
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5788241	72	1	5788241
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5788241	67	1	5788241
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	5788241	87	1	5788241
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	5788241	67	1	5788241
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	5788241	74	1	5788241
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	5788241	23 (1)	1	5788241
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	5788241	14 (1)	1	5788241
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	5788241	11 (1)	1	5788241
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	5788241	12 (1)	1	5788241
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	5788241	7 (1)	1	5788241
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	5788241	14 (1)	1	5788241
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	5788241	66	1	5788241
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	5788241	74	1	5788241
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	5788241	74	1	5788241
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	5788241	12 (1)	1	5788241
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	5788241	12 (1)	1	5788241
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	5788241	7 (1)	1	5788241
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	5788241	100	1	5788241
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	5788241	100	1	5788241
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	5788241	28 (1)	1	5788241

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZR832	HZR833	HZZ934			HZZ935		
Sampling Date		2018/10/11 16:00	2018/10/11	2018/10/11			2018/10/11		
COC Number		115058	115058	115058			115058		
	UNITS	**FIELD BLANK**	**TRIP BLANK**	**FILTERED BLANK**	**RDL**	**QC Batch**	**FILTERED SPIKE**	**RDL**	**QC Batch**
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	5788241	48 (1)	1	5788241
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	0.1	5788241	7 (1)	1	5788241
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5788241	87	1	5788241
p-Chloroaniline	ug/L	<1	<1	<1	1	5788241	79	1	5788241
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5788241	69	1	5788241
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	5788241	40 (1)	1	5788241
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	5788241	31	1	5788241
Pyrene	ug/L	<0.05	<0.05	<0.05	0.05	5788241	27 (1)	1	5788241
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	0.28	5782084			
Surrogate Recovery (%)									
2,4,6-Tribromophenol	%	53	31 (2)	21 (2)		5788241	84		5788241
2-Fluorobiphenyl	%	76	74	58		5788241	62		5788241
D14-Terphenyl (FS)	%	101	101	12 (2)		5788241	46 (2)		5788241
D5-Nitrobenzene	%	73	74	71		5788241	75		5788241

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

(2) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 VOCS BY HS (WATER)

Maxxam ID		HZR831	HZR832	HZR833		
Sampling Date		2018/10/11 14:55	2018/10/11 16:00	2018/10/11		
COC Number		115058	115058	115058		
	UNITS	**EQUIPMENT BLANK**	**FIELD BLANK**	**TRIP BLANK**	**RDL**	**QC Batch**
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	5781994
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	5782580
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	5782580
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5782580
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	5782580
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	5782580
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	5782580
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	5782580
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	5782580
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5782580
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5782580
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5782580
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5782580
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	5782580
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5782580
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5782580
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5782580
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5782580
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5782580
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	5782580
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	5782580
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	5782580
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	5782580
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	5782580
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	5782580
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	5782580
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	5782580
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	5782580
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	5782580

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

O.REG 153 VOCS BY HS (WATER)

Maxxam ID		HZR831	HZR832	HZR833		
Sampling Date		2018/10/11 14:55	2018/10/11 16:00	2018/10/11		
COC Number		115058	115058	115058		
	UNITS	**EQUIPMENT BLANK**	**FIELD BLANK**	**TRIP BLANK**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	5782580
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5782580
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5782580
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5782580
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	5782580
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5782580
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5782580
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5782580
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	5782580
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	5782580
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5782580
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5782580
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	5782580
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	90	89	89		5782580
D4-1,2-Dichloroethane	%	109	108	108		5782580
D8-Toluene	%	96	97	97		5782580

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZR817
Sample ID: WG-160900764-20181011-RD04
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic
Acidity (CaCO3) in water	MT	5789563	N/A	2018/10/18	Brent Boudreau
Alkalinity	AT	5782308	N/A	2018/10/15	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5782085	N/A	2018/10/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	5781994	N/A	2018/10/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	5782500	N/A	2018/10/16	Deonarine Ramnarine
Conductivity	AT	5782309	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5783907	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783626	N/A	2018/10/15	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5782458	N/A	2018/10/15	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5785169	2018/10/16	2018/10/16	Anna Stuglik Rolland
Fluoride	ISE	5782307	2018/10/13	2018/10/15	Surinder Rai
Hardness (calculated as CaCO3)		5782086	N/A	2018/10/17	Automated Statchk
Mercury	CV/AA	5787416	2018/10/17	2018/10/17	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5782386	N/A	2018/10/17	Arefa Dabhad
Ion Balance (% Difference)	CALC	5782087	N/A	2018/10/17	Automated Statchk
Anion and Cation Sum	CALC	5782088	N/A	2018/10/17	Automated Statchk
Total Ammonia-N	LACH/NH4	5785151	N/A	2018/10/18	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5782301	N/A	2018/10/16	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5785797	2018/10/16	2018/10/16	Dawn Alarie
pH	AT	5782310	N/A	2018/10/15	Surinder Rai
Orthophosphate	KONE	5782504	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5782089	N/A	2018/10/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5782090	N/A	2018/10/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5782502	N/A	2018/10/15	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5782091	N/A	2018/10/17	Automated Statchk
Total Dissolved Solids	BAL	5783404	2018/10/16	2018/10/17	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5785265	N/A	2018/10/17	Nimarta Singh
Total Suspended Solids	BAL	5783396	2018/10/15	2018/10/16	Niket Kumar Patel
Turbidity	AT	5782255	N/A	2018/10/15	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5780922	N/A	2018/10/17	Karen Hughes

Maxxam ID: HZR817 Dup
Sample ID: WG-160900764-20181011-RD04
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZR818
Sample ID: WG-160900764-20181011-RD04A
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic

Maxxam ID: HZR819
Sample ID: WG-160900764-20181011-KR08
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic
Acidity (CaCO3) in water	MT	5789563	N/A	2018/10/18	Brent Boudreau
Alkalinity	AT	5782308	N/A	2018/10/15	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5782085	N/A	2018/10/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	5781994	N/A	2018/10/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	5782500	N/A	2018/10/16	Deonarine Ramnarine
Conductivity	AT	5782309	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5783907	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5785257	N/A	2018/10/16	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5782458	N/A	2018/10/15	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5785169	2018/10/16	2018/10/16	Anna Stuglik Rolland
Fluoride	ISE	5782307	2018/10/13	2018/10/15	Surinder Rai
Hardness (calculated as CaCO3)		5782086	N/A	2018/10/17	Automated Statchk
Mercury	CV/AA	5787416	2018/10/17	2018/10/17	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5782386	N/A	2018/10/17	Arefa Dabhad
Ion Balance (% Difference)	CALC	5782087	N/A	2018/10/17	Automated Statchk
Anion and Cation Sum	CALC	5782088	N/A	2018/10/17	Automated Statchk
Total Ammonia-N	LACH/NH4	5785151	N/A	2018/10/18	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5782301	N/A	2018/10/16	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5785797	2018/10/16	2018/10/16	Dawn Alarie
pH	AT	5782310	N/A	2018/10/15	Surinder Rai
Orthophosphate	KONE	5782504	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5782089	N/A	2018/10/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5782090	N/A	2018/10/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5782502	N/A	2018/10/15	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5782091	N/A	2018/10/17	Automated Statchk
Total Dissolved Solids	BAL	5783404	2018/10/16	2018/10/17	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5785265	N/A	2018/10/17	Nimarta Singh
Total Suspended Solids	BAL	5783396	2018/10/15	2018/10/16	Niket Kumar Patel
Turbidity	AT	5782255	N/A	2018/10/15	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5780922	N/A	2018/10/17	Karen Hughes

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZR819 Dup
Sample ID: WG-160900764-20181011-KR08
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5785257	N/A	2018/10/16	Louise Harding
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5785169	2018/10/16	2018/10/16	Anna Stuglik Rolland
Total Suspended Solids	BAL	5783396	2018/10/15	2018/10/16	Niket Kumar Patel

Maxxam ID: HZR820
Sample ID: WG-160900764-20181011-KR08A
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic

Maxxam ID: HZR821
Sample ID: WG-160900764-20181011-RD05
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic
Acidity (CaCO3) in water	MT	5789563	N/A	2018/10/18	Brent Boudreau
Alkalinity	AT	5782308	N/A	2018/10/15	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5782085	N/A	2018/10/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	5781994	N/A	2018/10/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	5782500	N/A	2018/10/16	Deonarine Ramnarine
Conductivity	AT	5782309	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5783907	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5785257	N/A	2018/10/16	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5782458	N/A	2018/10/15	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5785169	2018/10/16	2018/10/16	Anna Stuglik Rolland
Fluoride	ISE	5782307	2018/10/13	2018/10/15	Surinder Rai
Hardness (calculated as CaCO3)		5782086	N/A	2018/10/17	Automated Statchk
Mercury	CV/AA	5788502	2018/10/17	2018/10/18	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5782386	N/A	2018/10/17	Arefa Dabhad
Ion Balance (% Difference)	CALC	5782087	N/A	2018/10/17	Automated Statchk
Anion and Cation Sum	CALC	5782088	N/A	2018/10/17	Automated Statchk
Total Ammonia-N	LACH/NH4	5785151	N/A	2018/10/18	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5782301	N/A	2018/10/16	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5785797	2018/10/16	2018/10/16	Dawn Alarie
pH	AT	5782310	N/A	2018/10/15	Surinder Rai
Orthophosphate	KONE	5782504	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5782089	N/A	2018/10/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5782090	N/A	2018/10/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5782502	N/A	2018/10/15	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5782091	N/A	2018/10/17	Automated Statchk

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZR821
Sample ID: WG-160900764-20181011-RD05
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	5783404	2018/10/16	2018/10/17	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5785265	N/A	2018/10/17	Nimarta Singh
Total Suspended Solids	BAL	5783396	2018/10/15	2018/10/16	Niket Kumar Patel
Turbidity	AT	5782255	N/A	2018/10/15	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5780922	N/A	2018/10/17	Karen Hughes

Maxxam ID: HZR822
Sample ID: WG-160900764-20181011-RD05A
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic

Maxxam ID: HZR823
Sample ID: WG-160900764-20181011-DS01
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic
Acidity (CaCO3) in water	MT	5789563	N/A	2018/10/18	Brent Boudreau
Alkalinity	AT	5782308	N/A	2018/10/15	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5782085	N/A	2018/10/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	5781994	N/A	2018/10/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	5782500	N/A	2018/10/16	Deonarine Ramnarine
Conductivity	AT	5782309	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5783907	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783559	N/A	2018/10/15	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5782458	N/A	2018/10/15	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5785169	2018/10/16	2018/10/16	Anna Stuglik Rolland
Fluoride	ISE	5782307	2018/10/13	2018/10/15	Surinder Rai
Hardness (calculated as CaCO3)		5782086	N/A	2018/10/17	Automated Statchk
Mercury	CV/AA	5788502	2018/10/17	2018/10/18	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5782386	N/A	2018/10/17	Arefa Dabhad
Ion Balance (% Difference)	CALC	5782087	N/A	2018/10/17	Automated Statchk
Anion and Cation Sum	CALC	5782088	N/A	2018/10/17	Automated Statchk
Total Ammonia-N	LACH/NH4	5785151	N/A	2018/10/18	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5782301	N/A	2018/10/16	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5787707	2018/10/17	2018/10/17	Dawn Alarie
pH	AT	5782310	N/A	2018/10/15	Surinder Rai
Orthophosphate	KONE	5782504	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5782089	N/A	2018/10/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5782090	N/A	2018/10/17	Automated Statchk

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZR823
Sample ID: WG-160900764-20181011-DS01
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sulphate by Automated Colourimetry	KONE	5782502	N/A	2018/10/15	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5782091	N/A	2018/10/17	Automated Statchk
Total Dissolved Solids	BAL	5783404	2018/10/16	2018/10/17	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5785265	N/A	2018/10/17	Nimarta Singh
Total Suspended Solids	BAL	5783396	2018/10/15	2018/10/16	Niket Kumar Patel
Turbidity	AT	5782255	N/A	2018/10/15	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5780922	N/A	2018/10/17	Karen Hughes

Maxxam ID: HZR823 Dup
Sample ID: WG-160900764-20181011-DS01
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	5783404	2018/10/16	2018/10/17	Jingwei (Alvin) Shi

Maxxam ID: HZR824
Sample ID: WG-160900764-20181011-DS01A
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic

Maxxam ID: HZR825
Sample ID: WG-160900764-20181011-RD07
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5792235	2018/10/19	2018/10/19	Milijana Avramovic
Acidity (CaCO3) in water	MT	5789563	N/A	2018/10/18	Brent Boudreau
Alkalinity	AT	5782308	N/A	2018/10/15	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5782085	N/A	2018/10/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	5781994	N/A	2018/10/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	5782500	N/A	2018/10/16	Deonarine Ramnarine
Conductivity	AT	5782309	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5783907	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5785257	N/A	2018/10/16	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5782458	N/A	2018/10/15	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5785169	2018/10/16	2018/10/16	Anna Stuglik Rolland
Fluoride	ISE	5782307	2018/10/13	2018/10/15	Surinder Rai
Hardness (calculated as CaCO3)		5782086	N/A	2018/10/17	Automated Statchk
Mercury	CV/AA	5787416	2018/10/17	2018/10/17	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5782386	N/A	2018/10/17	Arefa Dabhad

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZR825
Sample ID: WG-160900764-20181011-RD07
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Ion Balance (% Difference)	CALC	5782087	N/A	2018/10/17	Automated Statchk
Anion and Cation Sum	CALC	5782088	N/A	2018/10/17	Automated Statchk
Total Ammonia-N	LACH/NH4	5785151	N/A	2018/10/18	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5782301	N/A	2018/10/16	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5785797	2018/10/16	2018/10/16	Dawn Alarie
pH	AT	5782310	N/A	2018/10/15	Surinder Rai
Orthophosphate	KONE	5782504	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5782089	N/A	2018/10/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5782090	N/A	2018/10/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5782502	N/A	2018/10/15	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5782091	N/A	2018/10/17	Automated Statchk
Total Dissolved Solids	BAL	5783404	2018/10/16	2018/10/17	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5785265	N/A	2018/10/17	Nimarta Singh
Total Suspended Solids	BAL	5783396	2018/10/15	2018/10/16	Niket Kumar Patel
Turbidity	AT	5782255	N/A	2018/10/15	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5780922	N/A	2018/10/17	Karen Hughes

Maxxam ID: HZR825 Dup
Sample ID: WG-160900764-20181011-RD07
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5782458	N/A	2018/10/15	Nimarta Singh

Maxxam ID: HZR826
Sample ID: WG-160900764-20181011-RD07A
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic

Maxxam ID: HZR827
Sample ID: WG-160900764-20181011-RD06
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic
Acidity (CaCO3) in water	MT	5789563	N/A	2018/10/18	Brent Boudreau
Alkalinity	AT	5782308	N/A	2018/10/15	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5782085	N/A	2018/10/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	5781994	N/A	2018/10/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	5782500	N/A	2018/10/16	Deonarine Ramnarine

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZR827
Sample ID: WG-160900764-20181011-RD06
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	5782309	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5783907	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5785257	N/A	2018/10/16	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5782458	N/A	2018/10/15	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5785169	2018/10/16	2018/10/16	Anna Stuglik Rolland
Fluoride	ISE	5782307	2018/10/13	2018/10/15	Surinder Rai
Hardness (calculated as CaCO3)		5782086	N/A	2018/10/17	Automated Statchk
Mercury	CV/AA	5787416	2018/10/17	2018/10/17	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5782386	N/A	2018/10/17	Arefa Dabhad
Ion Balance (% Difference)	CALC	5782087	N/A	2018/10/17	Automated Statchk
Anion and Cation Sum	CALC	5782088	N/A	2018/10/17	Automated Statchk
Total Ammonia-N	LACH/NH4	5785151	N/A	2018/10/18	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5782301	N/A	2018/10/16	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5785797	2018/10/16	2018/10/16	Dawn Alarie
pH	AT	5782310	N/A	2018/10/15	Surinder Rai
Orthophosphate	KONE	5782504	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5782089	N/A	2018/10/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5782090	N/A	2018/10/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5782502	N/A	2018/10/15	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5782091	N/A	2018/10/17	Automated Statchk
Total Dissolved Solids	BAL	5783404	2018/10/16	2018/10/17	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5785265	N/A	2018/10/17	Nimarta Singh
Total Suspended Solids	BAL	5783396	2018/10/15	2018/10/16	Niket Kumar Patel
Turbidity	AT	5782255	N/A	2018/10/15	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5780922	N/A	2018/10/17	Karen Hughes

Maxxam ID: HZR828
Sample ID: WG-160900764-20181011-RD06A
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic

Maxxam ID: HZR829
Sample ID: WG-160900764-20181011-RD08
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic
Acidity (CaCO3) in water	MT	5789563	N/A	2018/10/18	Brent Boudreau
Alkalinity	AT	5782308	N/A	2018/10/15	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5782085	N/A	2018/10/16	Automated Statchk

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZR829
Sample ID: WG-160900764-20181011-RD08
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	5781994	N/A	2018/10/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	5782500	N/A	2018/10/16	Deonarine Ramnarine
Conductivity	AT	5782309	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5783907	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783559	N/A	2018/10/15	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5782458	N/A	2018/10/15	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5785169	2018/10/16	2018/10/16	Anna Stuglik Rolland
Fluoride	ISE	5782307	2018/10/13	2018/10/15	Surinder Rai
Hardness (calculated as CaCO3)		5782086	N/A	2018/10/17	Automated Statchk
Mercury	CV/AA	5787416	2018/10/17	2018/10/17	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5782386	N/A	2018/10/17	Arefa Dabhad
Ion Balance (% Difference)	CALC	5782087	N/A	2018/10/17	Automated Statchk
Anion and Cation Sum	CALC	5782088	N/A	2018/10/17	Automated Statchk
Total Ammonia-N	LACH/NH4	5785151	N/A	2018/10/18	Charles Opoku-Ware
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5782301	N/A	2018/10/16	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5785797	2018/10/16	2018/10/17	Dawn Alarie
pH	AT	5782310	N/A	2018/10/15	Surinder Rai
Orthophosphate	KONE	5782504	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5782089	N/A	2018/10/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5782090	N/A	2018/10/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5782502	N/A	2018/10/15	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5782091	N/A	2018/10/17	Automated Statchk
Total Dissolved Solids	BAL	5783404	2018/10/16	2018/10/17	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5785265	N/A	2018/10/17	Nimarta Singh
Total Suspended Solids	BAL	5783396	2018/10/15	2018/10/16	Niket Kumar Patel
Turbidity	AT	5782255	N/A	2018/10/15	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5780922	N/A	2018/10/17	Karen Hughes

Maxxam ID: HZR830
Sample ID: WG-160900764-20181011-RD08A
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic

Maxxam ID: HZR831
Sample ID: EQUIPMENT BLANK
Matrix: Water

Collected: 2018/10/11
Shipped:
Received: 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	5781994	N/A	2018/10/16	Automated Statchk

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZR831 **Collected:** 2018/10/11
Sample ID: EQUIPMENT BLANK **Shipped:**
Matrix: Water **Received:** 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds in Water	GC/MS	5782580	N/A	2018/10/16	Rebecca McClean

Maxxam ID: HZR832 **Collected:** 2018/10/11
Sample ID: FIELD BLANK **Shipped:**
Matrix: Water **Received:** 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	5781994	N/A	2018/10/16	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	5782580	N/A	2018/10/16	Rebecca McClean

Maxxam ID: HZR833 **Collected:** 2018/10/11
Sample ID: TRIP BLANK **Shipped:**
Matrix: Water **Received:** 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	5781994	N/A	2018/10/16	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	5782580	N/A	2018/10/16	Rebecca McClean

Maxxam ID: HZZ934 **Collected:** 2018/10/11
Sample ID: FILTERED BLANK **Shipped:**
Matrix: Water **Received:** 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5782084	N/A	2018/10/18	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic

Maxxam ID: HZZ935 **Collected:** 2018/10/11
Sample ID: FILTERED SPIKE **Shipped:**
Matrix: Water **Received:** 2018/10/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	5788241	2018/10/17	2018/10/18	Milijana Avramovic

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

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

GENERAL COMMENTS

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

Package 1	3.3°C
Package 2	2.0°C
Package 3	3.7°C
Package 4	3.7°C
Package 5	2.7°C
Package 6	5.0°C
Package 7	5.0°C

Sample HZR823 [WG-160900764-20181011-DS01] : TOC< DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample HZZ935 [FILTERED SPIKE] : ABN analysis: Data are reported as percentage recoveries.

Results relate only to the items tested.

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5780922	4-Bromofluorobenzene	2018/10/17	92	70 - 130	99	70 - 130	98	%				
5780922	D4-1,2-Dichloroethane	2018/10/17	119	70 - 130	100	70 - 130	99	%				
5780922	D8-Toluene	2018/10/17	106	70 - 130	105	70 - 130	103	%				
5782580	4-Bromofluorobenzene	2018/10/15	96	70 - 130	96	70 - 130	92	%				
5782580	D4-1,2-Dichloroethane	2018/10/15	96	70 - 130	97	70 - 130	100	%				
5782580	D8-Toluene	2018/10/15	106	70 - 130	106	70 - 130	97	%				
5785169	o-Terphenyl	2018/10/16	108	60 - 130	110	60 - 130	100	%				
5785797	Decachlorobiphenyl	2018/10/16	83	60 - 130	83	60 - 130	83	%				
5787707	Decachlorobiphenyl	2018/10/17	95	60 - 130	84	60 - 130	92	%				
5788241	2,4,6-Tribromophenol	2018/10/18	98	50 - 130	102	50 - 130	53	%				
5788241	2-Fluorobiphenyl	2018/10/18	62	50 - 130	64	50 - 130	50	%				
5788241	D14-Terphenyl (FS)	2018/10/18	94	50 - 130	96	50 - 130	98	%				
5788241	D5-Nitrobenzene	2018/10/18	80	50 - 130	90	50 - 130	62	%				
5792235	2,4,6-Tribromophenol	2018/10/19	89	50 - 130	84	50 - 130	75	%				
5792235	2-Fluorobiphenyl	2018/10/19	74	50 - 130	55	50 - 130	78	%				
5792235	D14-Terphenyl (FS)	2018/10/19	100	50 - 130	100	50 - 130	99	%				
5792235	D5-Nitrobenzene	2018/10/19	80	50 - 130	62	50 - 130	78	%				
5780922	1,1,1,2-Tetrachloroethane	2018/10/17	102	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5780922	1,1,1-Trichloroethane	2018/10/17	101	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5780922	1,1,2,2-Tetrachloroethane	2018/10/17	110	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
5780922	1,1,2-Trichloroethane	2018/10/17	120	70 - 130	105	70 - 130	<0.50	ug/L	NC	30		
5780922	1,1-Dichloroethane	2018/10/17	107	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5780922	1,1-Dichloroethylene	2018/10/17	98	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5780922	1,2-Dichlorobenzene	2018/10/17	98	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5780922	1,2-Dichloroethane	2018/10/17	115	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
5780922	1,2-Dichloropropane	2018/10/17	102	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5780922	1,3-Dichlorobenzene	2018/10/17	97	70 - 130	102	70 - 130	<0.50	ug/L	NC	30		
5780922	1,4-Dichlorobenzene	2018/10/17	94	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5780922	Acetone (2-Propanone)	2018/10/17	115	60 - 140	97	60 - 140	<10	ug/L	NC	30		
5780922	Benzene	2018/10/17	102	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5780922	Bromodichloromethane	2018/10/17	104	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5780922	Bromoform	2018/10/17	102	70 - 130	98	70 - 130	<1.0	ug/L	NC	30		
5780922	Bromomethane	2018/10/17	103	60 - 140	95	60 - 140	<0.50	ug/L	NC	30		
5780922	Carbon Tetrachloride	2018/10/17	102	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5780922	Chlorobenzene	2018/10/17	95	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5780922	Chloroform	2018/10/17	109	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5780922	cis-1,2-Dichloroethylene	2018/10/17	107	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5780922	cis-1,3-Dichloropropene	2018/10/17	91	70 - 130	96	70 - 130	<0.30	ug/L	NC	30		
5780922	Dibromochloromethane	2018/10/17	104	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5780922	Dichlorodifluoromethane (FREON 12)	2018/10/17	80	60 - 140	93	60 - 140	<1.0	ug/L	NC	30		
5780922	Ethylbenzene	2018/10/17	84	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5780922	Ethylene Dibromide	2018/10/17	105	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5780922	F1 (C6-C10) - BTEX	2018/10/17					<25	ug/L	NC	30		
5780922	F1 (C6-C10)	2018/10/17	93	60 - 140	94	60 - 140	<25	ug/L	NC	30		
5780922	Hexane	2018/10/17	98	70 - 130	100	70 - 130	<1.0	ug/L	NC	30		
5780922	Methyl Ethyl Ketone (2-Butanone)	2018/10/17	117	60 - 140	104	60 - 140	<10	ug/L	NC	30		
5780922	Methyl Isobutyl Ketone	2018/10/17	109	70 - 130	106	70 - 130	<5.0	ug/L	NC	30		
5780922	Methyl t-butyl ether (MTBE)	2018/10/17	95	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5780922	Methylene Chloride(Dichloromethane)	2018/10/17	101	70 - 130	91	70 - 130	<2.0	ug/L	NC	30		
5780922	o-Xylene	2018/10/17	84	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5780922	p+m-Xylene	2018/10/17	81	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5780922	Styrene	2018/10/17	82	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5780922	Tetrachloroethylene	2018/10/17	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5780922	Toluene	2018/10/17	95	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5780922	Total Xylenes	2018/10/17					<0.20	ug/L	NC	30		
5780922	trans-1,2-Dichloroethylene	2018/10/17	104	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
5780922	trans-1,3-Dichloropropene	2018/10/17	100	70 - 130	102	70 - 130	<0.40	ug/L	NC	30		
5780922	Trichloroethylene	2018/10/17	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5780922	Trichlorofluoromethane (FREON 11)	2018/10/17	103	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
5780922	Vinyl Chloride	2018/10/17	95	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5782255	Turbidity	2018/10/15			100	85 - 115	<0.1	NTU	2.3	20		
5782301	Nitrate (N)	2018/10/16	97	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5782301	Nitrite (N)	2018/10/16	103	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
5782307	Fluoride (F-)	2018/10/15	104	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
5782308	Alkalinity (Total as CaCO3)	2018/10/15			99	85 - 115	<1.0	mg/L	0.33	20		
5782309	Conductivity	2018/10/15			101	85 - 115	<1.0	umho/cm	0	25		
5782310	pH	2018/10/15			101	98 - 103			0.080	N/A		
5782386	Dissolved Aluminum (Al)	2018/10/17	105	80 - 120	100	80 - 120	<0.0050	mg/L				
5782386	Dissolved Antimony (Sb)	2018/10/17	108	80 - 120	101	80 - 120	<0.00050	mg/L				
5782386	Dissolved Arsenic (As)	2018/10/17	104	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
5782386	Dissolved Barium (Ba)	2018/10/17	102	80 - 120	103	80 - 120	<0.0020	mg/L	0.72	20		
5782386	Dissolved Beryllium (Be)	2018/10/17	106	80 - 120	102	80 - 120	<0.00050	mg/L				
5782386	Dissolved Boron (B)	2018/10/17	103	80 - 120	103	80 - 120	<0.010	mg/L	2.0	20		
5782386	Dissolved Cadmium (Cd)	2018/10/17	106	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20		
5782386	Dissolved Calcium (Ca)	2018/10/17	NC	80 - 120	98	80 - 120	<0.20	mg/L	0.24	20		
5782386	Dissolved Chromium (Cr)	2018/10/17	99	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
5782386	Dissolved Cobalt (Co)	2018/10/17	100	80 - 120	100	80 - 120	<0.00050	mg/L				
5782386	Dissolved Copper (Cu)	2018/10/17	101	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
5782386	Dissolved Iron (Fe)	2018/10/17	104	80 - 120	102	80 - 120	<0.10	mg/L	0.37	20		
5782386	Dissolved Lead (Pb)	2018/10/17	99	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
5782386	Dissolved Magnesium (Mg)	2018/10/17	100	80 - 120	101	80 - 120	<0.050	mg/L	0.031	20		
5782386	Dissolved Manganese (Mn)	2018/10/17	103	80 - 120	102	80 - 120	<0.0020	mg/L	1.8	20		
5782386	Dissolved Molybdenum (Mo)	2018/10/17	104	80 - 120	99	80 - 120	<0.00050	mg/L				
5782386	Dissolved Nickel (Ni)	2018/10/17	99	80 - 120	100	80 - 120	<0.0010	mg/L				
5782386	Dissolved Phosphorus (P)	2018/10/17	105	80 - 120	112	80 - 120	<0.10	mg/L				
5782386	Dissolved Potassium (K)	2018/10/17	108	80 - 120	99	80 - 120	<0.20	mg/L	0.71	20		
5782386	Dissolved Selenium (Se)	2018/10/17	105	80 - 120	102	80 - 120	<0.0020	mg/L				
5782386	Dissolved Silicon (Si)	2018/10/17	105	80 - 120	100	80 - 120	<0.050	mg/L				
5782386	Dissolved Silver (Ag)	2018/10/17	92	80 - 120	96	80 - 120	<0.00010	mg/L				
5782386	Dissolved Sodium (Na)	2018/10/17	NC	80 - 120	98	80 - 120	<0.10	mg/L	1.2	20		
5782386	Dissolved Strontium (Sr)	2018/10/17	101	80 - 120	101	80 - 120	<0.0010	mg/L				
5782386	Dissolved Thallium (Tl)	2018/10/17	101	80 - 120	101	80 - 120	<0.000050	mg/L				

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5782386	Dissolved Titanium (Ti)	2018/10/17	102	80 - 120	101	80 - 120	<0.0050	mg/L				
5782386	Dissolved Uranium (U)	2018/10/17	99	80 - 120	98	80 - 120	<0.00010	mg/L				
5782386	Dissolved Vanadium (V)	2018/10/17	104	80 - 120	102	80 - 120	<0.00050	mg/L				
5782386	Dissolved Zinc (Zn)	2018/10/17	101	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
5782386	Dissolved Zirconium (Zr)	2018/10/17	108	80 - 120	101	80 - 120	<0.0010	mg/L				
5782458	Dissolved Organic Carbon	2018/10/15	96	80 - 120	99	80 - 120	<0.50	mg/L	5.6	20		
5782500	Dissolved Chloride (Cl-)	2018/10/16	106	80 - 120	104	80 - 120	<1.0	mg/L	0.32	20		
5782502	Dissolved Sulphate (SO4)	2018/10/15	NC	75 - 125	103	80 - 120	<1.0	mg/L	0.51	20		
5782504	Orthophosphate (P)	2018/10/15	98	75 - 125	99	80 - 120	<0.010	mg/L	7.0	25		
5782580	1,1,1,2-Tetrachloroethane	2018/10/15	96	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5782580	1,1,1-Trichloroethane	2018/10/15	98	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5782580	1,1,2,2-Tetrachloroethane	2018/10/15	97	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
5782580	1,1,2-Trichloroethane	2018/10/15	99	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5782580	1,1-Dichloroethane	2018/10/15	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
5782580	1,1-Dichloroethylene	2018/10/15	101	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5782580	1,2-Dichlorobenzene	2018/10/15	96	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5782580	1,2-Dichloroethane	2018/10/15	94	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5782580	1,2-Dichloropropane	2018/10/15	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
5782580	1,3-Dichlorobenzene	2018/10/15	96	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5782580	1,4-Dichlorobenzene	2018/10/15	96	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5782580	Acetone (2-Propanone)	2018/10/15	90	60 - 140	95	60 - 140	<10	ug/L	NC	30		
5782580	Benzene	2018/10/15	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5782580	Bromodichloromethane	2018/10/15	96	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
5782580	Bromoform	2018/10/15	88	70 - 130	90	70 - 130	<1.0	ug/L	NC	30		
5782580	Bromomethane	2018/10/15	91	60 - 140	92	60 - 140	<0.50	ug/L	NC	30		
5782580	Carbon Tetrachloride	2018/10/15	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
5782580	Chlorobenzene	2018/10/15	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
5782580	Chloroform	2018/10/15	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5782580	cis-1,2-Dichloroethylene	2018/10/15	97	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5782580	cis-1,3-Dichloropropene	2018/10/15	90	70 - 130	92	70 - 130	<0.30	ug/L	NC	30		
5782580	Dibromochloromethane	2018/10/15	94	70 - 130	94	70 - 130	<0.50	ug/L	NC	30		

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5782580	Dichlorodifluoromethane (FREON 12)	2018/10/15	96	60 - 140	95	60 - 140	<1.0	ug/L	NC	30		
5782580	Ethylbenzene	2018/10/15	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
5782580	Ethylene Dibromide	2018/10/15	93	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
5782580	Hexane	2018/10/15	109	70 - 130	106	70 - 130	<1.0	ug/L	NC	30		
5782580	Methyl Ethyl Ketone (2-Butanone)	2018/10/15	95	60 - 140	99	60 - 140	<10	ug/L	NC	30		
5782580	Methyl Isobutyl Ketone	2018/10/15	101	70 - 130	104	70 - 130	<5.0	ug/L	NC	30		
5782580	Methyl t-butyl ether (MTBE)	2018/10/15	96	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5782580	Methylene Chloride(Dichloromethane)	2018/10/15	99	70 - 130	99	70 - 130	<2.0	ug/L	NC	30		
5782580	o-Xylene	2018/10/15	96	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5782580	p+m-Xylene	2018/10/15	101	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5782580	Styrene	2018/10/15	100	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
5782580	Tetrachloroethylene	2018/10/15	93	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
5782580	Toluene	2018/10/15	99	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5782580	Total Xylenes	2018/10/15					<0.20	ug/L	NC	30		
5782580	trans-1,2-Dichloroethylene	2018/10/15	93	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
5782580	trans-1,3-Dichloropropene	2018/10/15	93	70 - 130	95	70 - 130	<0.40	ug/L	NC	30		
5782580	Trichloroethylene	2018/10/15	94	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
5782580	Trichlorofluoromethane (FREON 11)	2018/10/15	95	70 - 130	94	70 - 130	<0.50	ug/L	NC	30		
5782580	Vinyl Chloride	2018/10/15	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
5783396	Total Suspended Solids	2018/10/16					<10	mg/L	NC	25	100	85 - 115
5783404	Total Dissolved Solids	2018/10/17					<10	mg/L	15	25	97	90 - 110
5783559	WAD Cyanide (Free)	2018/10/15	101	80 - 120	101	80 - 120	<1	ug/L	NC	20		
5783626	WAD Cyanide (Free)	2018/10/15	104	80 - 120	106	80 - 120	<1	ug/L	NC	20		
5783907	Chromium (VI)	2018/10/16	102	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
5785151	Total Ammonia-N	2018/10/18	93	75 - 125	97	80 - 120	<0.050	mg/L	NC	20		
5785169	F2 (C10-C16 Hydrocarbons)	2018/10/16	106	50 - 130	108	60 - 130	<100	ug/L	NC	30		
5785169	F3 (C16-C34 Hydrocarbons)	2018/10/16	97	50 - 130	104	60 - 130	<200	ug/L	NC	30		
5785169	F4 (C34-C50 Hydrocarbons)	2018/10/16	95	50 - 130	101	60 - 130	<200	ug/L	NC	30		
5785257	WAD Cyanide (Free)	2018/10/16	96	80 - 120	101	80 - 120	<1	ug/L	NC	20		
5785265	Total Organic Carbon (TOC)	2018/10/16	98	80 - 120	98	80 - 120	<0.50	mg/L	0.24	20		
5785797	Aroclor 1242	2018/10/16					<0.05	ug/L	NC	30		

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5785797	Aroclor 1248	2018/10/16					<0.05	ug/L	NC	30		
5785797	Aroclor 1254	2018/10/16					<0.05	ug/L	NC	30		
5785797	Aroclor 1260	2018/10/16	86	60 - 130	67	60 - 130	<0.05	ug/L	NC	30		
5785797	Total PCB	2018/10/16	86	60 - 130	67	60 - 130	<0.05	ug/L	NC	40		
5787416	Mercury (Hg)	2018/10/17	88	75 - 125	88	80 - 120	<0.1	ug/L	NC	20		
5787707	Aroclor 1242	2018/10/17					<0.05	ug/L				
5787707	Aroclor 1248	2018/10/17					<0.05	ug/L				
5787707	Aroclor 1254	2018/10/17					<0.05	ug/L				
5787707	Aroclor 1260	2018/10/17	101	60 - 130	86	60 - 130	<0.05	ug/L				
5787707	Total PCB	2018/10/17	101	60 - 130	86	60 - 130	<0.05	ug/L	NC	40		
5788241	1,2,4-Trichlorobenzene	2018/10/18	65	50 - 130	58	50 - 130	<0.1	ug/L	NC	30		
5788241	1-Methylnaphthalene	2018/10/18	89	50 - 130	90	50 - 130	<0.2	ug/L	NC	30		
5788241	2,4,5-Trichlorophenol	2018/10/18	86	50 - 130	92	50 - 130	<0.2	ug/L	NC	30		
5788241	2,4,6-Trichlorophenol	2018/10/18	79	50 - 130	87	50 - 130	<0.2	ug/L	NC	30		
5788241	2,4-Dichlorophenol	2018/10/18	71	50 - 130	98	50 - 130	<0.1	ug/L	NC	30		
5788241	2,4-Dimethylphenol	2018/10/18	49	30 - 130	77	30 - 130	<0.5	ug/L	NC	30		
5788241	2,4-Dinitrophenol	2018/10/18	84	30 - 130	107	30 - 130	<2	ug/L	NC	30		
5788241	2,4-Dinitrotoluene	2018/10/18	97	50 - 130	101	50 - 130	<0.3	ug/L	NC	30		
5788241	2,6-Dinitrotoluene	2018/10/18	89	50 - 130	94	50 - 130	<0.3	ug/L	NC	30		
5788241	2-Chlorophenol	2018/10/18	77	50 - 130	86	50 - 130	<0.1	ug/L	NC	30		
5788241	2-Methylnaphthalene	2018/10/18	85	50 - 130	86	50 - 130	<0.2	ug/L	NC	30		
5788241	3,3'-Dichlorobenzidine	2018/10/18	102	30 - 130	106	30 - 130	<0.5	ug/L	NC	30		
5788241	Acenaphthene	2018/10/18	87	50 - 130	89	50 - 130	<0.2	ug/L	NC	30		
5788241	Acenaphthylene	2018/10/18	86	50 - 130	88	50 - 130	<0.2	ug/L	NC	30		
5788241	Anthracene	2018/10/18	92	50 - 130	91	50 - 130	<0.05	ug/L	NC	30		
5788241	Benzo(a)anthracene	2018/10/18	96	50 - 130	95	50 - 130	<0.05	ug/L	NC	30		
5788241	Benzo(a)pyrene	2018/10/18	98	50 - 130	97	50 - 130	<0.01	ug/L	NC	30		
5788241	Benzo(b/j)fluoranthene	2018/10/18	95	50 - 130	95	50 - 130	<0.05	ug/L	NC	30		
5788241	Benzo(g,h,i)perylene	2018/10/18	86	50 - 130	87	50 - 130	<0.05	ug/L	NC	30		
5788241	Benzo(k)fluoranthene	2018/10/18	98	50 - 130	99	50 - 130	<0.05	ug/L	NC	30		
5788241	Biphenyl	2018/10/18	85	50 - 130	86	50 - 130	<0.1	ug/L	NC	30		

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5788241	Bis(2-chloroethyl)ether	2018/10/18	73	50 - 130	81	50 - 130	<0.5	ug/L	NC	30		
5788241	Bis(2-chloroisopropyl)ether	2018/10/18	83	50 - 130	90	50 - 130	<0.5	ug/L	NC	30		
5788241	Bis(2-ethylhexyl)phthalate	2018/10/18	97	50 - 130	99	50 - 130	<1	ug/L	NC	30		
5788241	Chrysene	2018/10/18	101	50 - 130	100	50 - 130	<0.05	ug/L	NC	30		
5788241	Dibenz(a,h)anthracene	2018/10/18	92	50 - 130	93	50 - 130	<0.1	ug/L	NC	30		
5788241	Diethyl phthalate	2018/10/18	107	50 - 130	109	50 - 130	<0.1	ug/L	NC	30		
5788241	Dimethyl phthalate	2018/10/18	106	50 - 130	106	50 - 130	<0.1	ug/L	NC	30		
5788241	Fluoranthene	2018/10/18	101	50 - 130	100	50 - 130	<0.2	ug/L	NC	30		
5788241	Fluorene	2018/10/18	90	50 - 130	94	50 - 130	<0.2	ug/L	NC	30		
5788241	Indeno(1,2,3-cd)pyrene	2018/10/18	89	50 - 130	89	50 - 130	<0.1	ug/L	NC	30		
5788241	Naphthalene	2018/10/18	99	50 - 130	101	50 - 130	<0.2	ug/L	NC	30		
5788241	p-Chloroaniline	2018/10/18	90	30 - 130	100	30 - 130	<1	ug/L	NC	30		
5788241	Pentachlorophenol	2018/10/18	95	50 - 130	99	50 - 130	<0.1	ug/L	NC	30		
5788241	Phenanthrene	2018/10/18	92	50 - 130	92	50 - 130	<0.1	ug/L	NC	30		
5788241	Phenol	2018/10/18	33	30 - 130	37	30 - 130	<0.5	ug/L	NC	30		
5788241	Pyrene	2018/10/18	97	50 - 130	95	50 - 130	<0.05	ug/L	NC	30		
5788502	Mercury (Hg)	2018/10/18	97	75 - 125	96	80 - 120	<0.1	ug/L	NC	20		
5789563	Acidity	2018/10/18	99	80 - 120	100	80 - 120	<5.0	mg/L	NC	25		
5792235	1,2,4-Trichlorobenzene	2018/10/19	65	50 - 130	50	50 - 130	<0.1	ug/L				
5792235	1-Methylnaphthalene	2018/10/19	90	50 - 130	70	50 - 130	<0.2	ug/L	NC	30		
5792235	2,4,5-Trichlorophenol	2018/10/19	93	50 - 130	77	50 - 130	<0.2	ug/L				
5792235	2,4,6-Trichlorophenol	2018/10/19	85	50 - 130	70	50 - 130	<0.2	ug/L				
5792235	2,4-Dichlorophenol	2018/10/19	91	50 - 130	68	50 - 130	<0.1	ug/L				
5792235	2,4-Dimethylphenol	2018/10/19	52	30 - 130	58	30 - 130	<0.5	ug/L				
5792235	2,4-Dinitrophenol	2018/10/19	98	30 - 130	87	30 - 130	<2	ug/L				
5792235	2,4-Dinitrotoluene	2018/10/19	98	50 - 130	96	50 - 130	<0.3	ug/L				
5792235	2,6-Dinitrotoluene	2018/10/19	94	50 - 130	85	50 - 130	<0.3	ug/L				
5792235	2-Chlorophenol	2018/10/19	76	50 - 130	60	50 - 130	<0.1	ug/L				
5792235	2-Methylnaphthalene	2018/10/19	86	50 - 130	67	50 - 130	<0.2	ug/L	NC	30		
5792235	3,3'-Dichlorobenzidine	2018/10/19	88	30 - 130	97	30 - 130	<0.5	ug/L				
5792235	Acenaphthene	2018/10/19	92	50 - 130	74	50 - 130	<0.2	ug/L	NC	30		

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5792235	Acenaphthylene	2018/10/19	92	50 - 130	74	50 - 130	<0.2	ug/L	NC	30		
5792235	Anthracene	2018/10/19	91	50 - 130	88	50 - 130	<0.05	ug/L	NC	30		
5792235	Benzo(a)anthracene	2018/10/19	101	50 - 130	100	50 - 130	<0.05	ug/L	NC	30		
5792235	Benzo(a)pyrene	2018/10/19	99	50 - 130	97	50 - 130	<0.01	ug/L	NC	30		
5792235	Benzo(b/j)fluoranthene	2018/10/19	97	50 - 130	96	50 - 130	<0.05	ug/L				
5792235	Benzo(g,h,i)perylene	2018/10/19	103	50 - 130	106	50 - 130	<0.05	ug/L	NC	30		
5792235	Benzo(k)fluoranthene	2018/10/19	114	50 - 130	113	50 - 130	<0.05	ug/L	NC	30		
5792235	Biphenyl	2018/10/19	88	50 - 130	68	50 - 130	<0.1	ug/L	NC	30		
5792235	Bis(2-chloroethyl)ether	2018/10/19	80	50 - 130	62	50 - 130	<0.5	ug/L				
5792235	Bis(2-chloroisopropyl)ether	2018/10/19	85	50 - 130	64	50 - 130	<0.5	ug/L				
5792235	Bis(2-ethylhexyl)phthalate	2018/10/19	98	50 - 130	98	50 - 130	<1	ug/L				
5792235	Chrysene	2018/10/19	103	50 - 130	101	50 - 130	<0.05	ug/L	NC	30		
5792235	Dibenz(a,h)anthracene	2018/10/19	105	50 - 130	106	50 - 130	<0.1	ug/L	NC	30		
5792235	Diethyl phthalate	2018/10/19	101	50 - 130	100	50 - 130	<0.1	ug/L				
5792235	Dimethyl phthalate	2018/10/19	101	50 - 130	96	50 - 130	<0.1	ug/L				
5792235	Fluoranthene	2018/10/19	105	50 - 130	103	50 - 130	<0.2	ug/L	NC	30		
5792235	Fluorene	2018/10/19	94	50 - 130	82	50 - 130	<0.2	ug/L	NC	30		
5792235	Indeno(1,2,3-cd)pyrene	2018/10/19	107	50 - 130	108	50 - 130	<0.1	ug/L	NC	30		
5792235	Naphthalene	2018/10/19	87	50 - 130	65	50 - 130	<0.2	ug/L	NC	30		
5792235	p-Chloroaniline	2018/10/19	85	30 - 130	75	30 - 130	<1	ug/L				
5792235	Pentachlorophenol	2018/10/19	77	50 - 130	84	50 - 130	<0.1	ug/L				
5792235	Phenanthrene	2018/10/19	94	50 - 130	90	50 - 130	<0.1	ug/L	NC	30		
5792235	Phenol	2018/10/19	33	30 - 130	26 (1)	30 - 130	<0.5	ug/L				

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5792235	Pyrene	2018/10/19	110	50 - 130	108	50 - 130	<0.05	ug/L				

N/A = Not Applicable

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

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

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

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

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

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

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

(1) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.

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

Maxxam Job #: B8Q9429
Report Date: 2018/10/22

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WELL
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).

Anastassia Hamanov, Analyst I

Gina Thompson, Inorganics General Chemistry Supervisor

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

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

Maxxam
A Bureau Veritas Group Company

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 2	686533-02-01
Page 2 of 2	115058
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS:

MAXXAM JOB#: B8Q9429

	YES	NO		1	2	3
CUSTODY SEAL			COOLER ID 1			
PRESENT		✓	TEMP	4	3	3
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID 2			
PRESENT		✓	TEMP	2	2	2
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID 3			
PRESENT		✓	TEMP	3	4	4
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID 4			
PRESENT		✓	TEMP	5	2	4
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID 5			
PRESENT		✓	TEMP	2	3	3
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID 6			
PRESENT		✓	TEMP	4	6	5
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID 7			
PRESENT		✓	TEMP	5	5	5
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT						

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

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
[signature]	GYNESHAN [illegible]	2013/10/12	09:20

12-Oct-18 09:20
Ronklin Gracian
B8Q9429
J_L . ENV-420

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5
Page 1 of 1

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

Bottle Types

			Inorganics					Organics											Hydrocarbons							Volatiles				Other
	Sample ID	All	CrVI	CN	General	Hg*	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	RD07	TS																												
2	RD07A	TS																												
3	RD06	TS																												
4	RD08	TS																												
5	RD08A	TS																												
6																														
7																														
8																														
9																														
10																														

Comments: Except for CR, D2SM, HGHC

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print) [signature]

Maxxam
A Bureau Veritas Group Company

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

STANTEC

12-Oct-18 09:20
Ronklin Gracian
B8Q9429
J_L
ENV-420, 583.637.667

Page 1 of 2

Bottle Order #: 686533

Project Manager: Ronklin Gracian

C#686533-02-01

INVOICE INFORMATION:		REPORT INFORMATION(if differs from invoice):		PROJECT INFORMATION:	
Company Name:	#9197 Stantec Consulting Ltd	Company Name:	#18379 Stantec Consulting Ltd	Quotation #:	B48218
Contact Name:	Accounts Payable	Contact Name:	Report - 160900764	Task #:	200.500
Address:	300 Hagey Blvd Suite 100	Address:		Project #:	160900764
	Waterloo ON N2L 0A4		ON	Profit Centre:	1609
Phone:	(519) 579-4410 Fax: (519) 579-6733	Phone:	Fax:	Site #:	Clarington TS - Monitoring Wel
Email:	accounts.payable.invoices@stantec.com	Email:	aaron.warkentin@stantec.com, jamie.koch@stantec.co	Sampled By:	Ryan Long

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

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

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

Special Instructions

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

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

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

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

ANALYSIS REQUESTED (PLEASE BE SPECIFIC):

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / CrVI	Acidity	Cr (VI) & Free CN	Fluoride & Turbidity	Mercury & TOC	TDS & TSS	RCAp - Comprehensive - Field Filter	Reg 153 PCBs	Reg 153 VOCs & F1-F4	SVOCs	Lab Filtered SVOCs	# of Bottles	Comments
1		WG-160900764-201810 11 -RD04	Oct 11/18	1040	GW	Y	X	X	X	X	X	X	X	X	X		18	
2		WG-160900764-201810 11 -RD04A		1040	GW	—										X	2	
3		WG-160900764-201810 11 -RD08		1040	GW	Y	X	X	X	X	X	X	X	X	X		18	
4		WG-160900764-201810 11 -RD08A		1040	GW	—										X	2	
5		WG-160900764-201810 11 -RD05		1250	GW	Y	X	X	X	X	X	X	X	X	X		18	
6		WG-160900764-201810 11 -RD05A		1250	GW	—										X	2	
7		" " -DS01		1250	GW	Y	X	X	X	X	X	X	X	X	X		18	
8		11-DS01A		1250	GW	—										X	2	
9		11-RD07		1433	GW	Y	X	X	X	X	X	X	X	X	X		18	
10		11-RD07A		1433	GW	—										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
	18/10/12	917	Giles Guilsheen	2018/10/12	09:20	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: Refer to AGR
Custody Seal Present / Intact: Yes / No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* 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.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT HTTP://MAXXAM.CA/WP-CONTENT/UPLOADS/ONTARIO-COC.PDF.

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

White: Maxxa Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

Maxxam
A Bureau Veritas Group Company

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/3

CHAIN OF CUSTODY RECORD 115058

Page 2 of 2

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: 9197	Company Name: 18379	Quotation #: B48-18	[X] Regular TAT (5-7 days) Most analyses
Contact Name:	Contact Name:	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	Address:	Project #: 160907764	Rush TAT (Surcharges will be applied): [ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Phone: Fax:	Phone: jamie.kal@stantec.com	Site Location:	
Email: ons.accounts.payable.invoices@stantec.com	Email: ons.analyserkentville@stantec.com	Site #: Clarington TS - MW	Date Required:
		Sampled By: Kylin Bay	Rush Confirmation #:

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

Regulation 153	Other Regulations
[X] Table 1 [ ] Res/Park [ ] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
[ ] Table 2 [ ] Ind/Comm [ ] Coarse	[ ] MISA [ ] Storm Sewer Bylaw
[ ] Table 3 [ ] Agri/ Other	[ ] PWQO Region
[ ] Table ____	[ ] Other (Specify)
FOR RSC (PLEASE CIRCLE) Y / N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: Y / N

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

LABORATORY USE ONLY

CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	

COOLING MEDIA PRESENT: Y / N

Analysis Requested

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) (Metals / Hg / CrVI)	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	Acidity, TSS, TDS	Cr(VI), free Cn	Chloride + Turbidity	Hg + Tot	RCAP Comp	Pest, PCBs + VOC + F1-F4	SVOCs	Lab Filtered SVOCs	HOLD- DO NOT ANALYZE	COMMENTS
1	MW-169 WT&M - 20181011 - RD06	2018/10/11	15:45	GW	18	Y							X	X	X	X	X	X	X			
2	- RD06A		15:45		2															X		
3	- RD08		1620		18	Y							X	X	X	X	X	X	X			
4	- RD08A		1620		2															X		
5	Equipment Blank	2018/10/11	1455	—	5				X										X			
6	Field Blank	"	1600	—	5				X										X			
7	Trip Blank	—	—	—	2				X										X			
8																						
9																						
10																						

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	MAXXAM JOB #
[signature]	2018/10/12	9:17	SEE page one			

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.maxxam.ca/terms. Sample container, preservation, hold time and packages information can be viewed at http://maxxam.ca/wp-content/uploads/Ontario-COC.pdf.

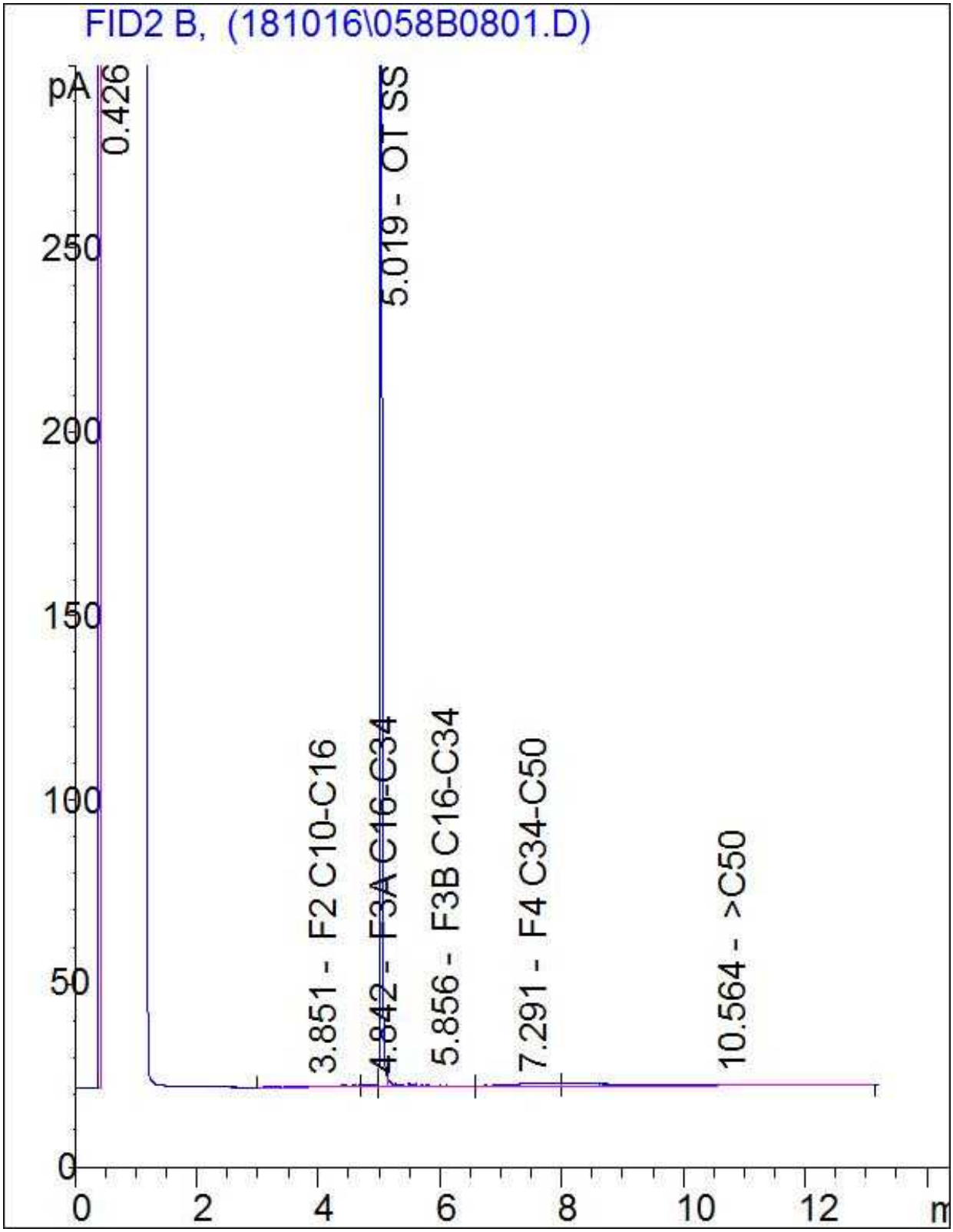
COC-1004 (03/17)

White: Maxxam ~ Yellow: Client

Maxxam Job #: B8Q9429
Report Date: 2018/10/22
Maxxam Sample: HZR817

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WELL
Client ID: WG-160900764-20181011-RD04

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

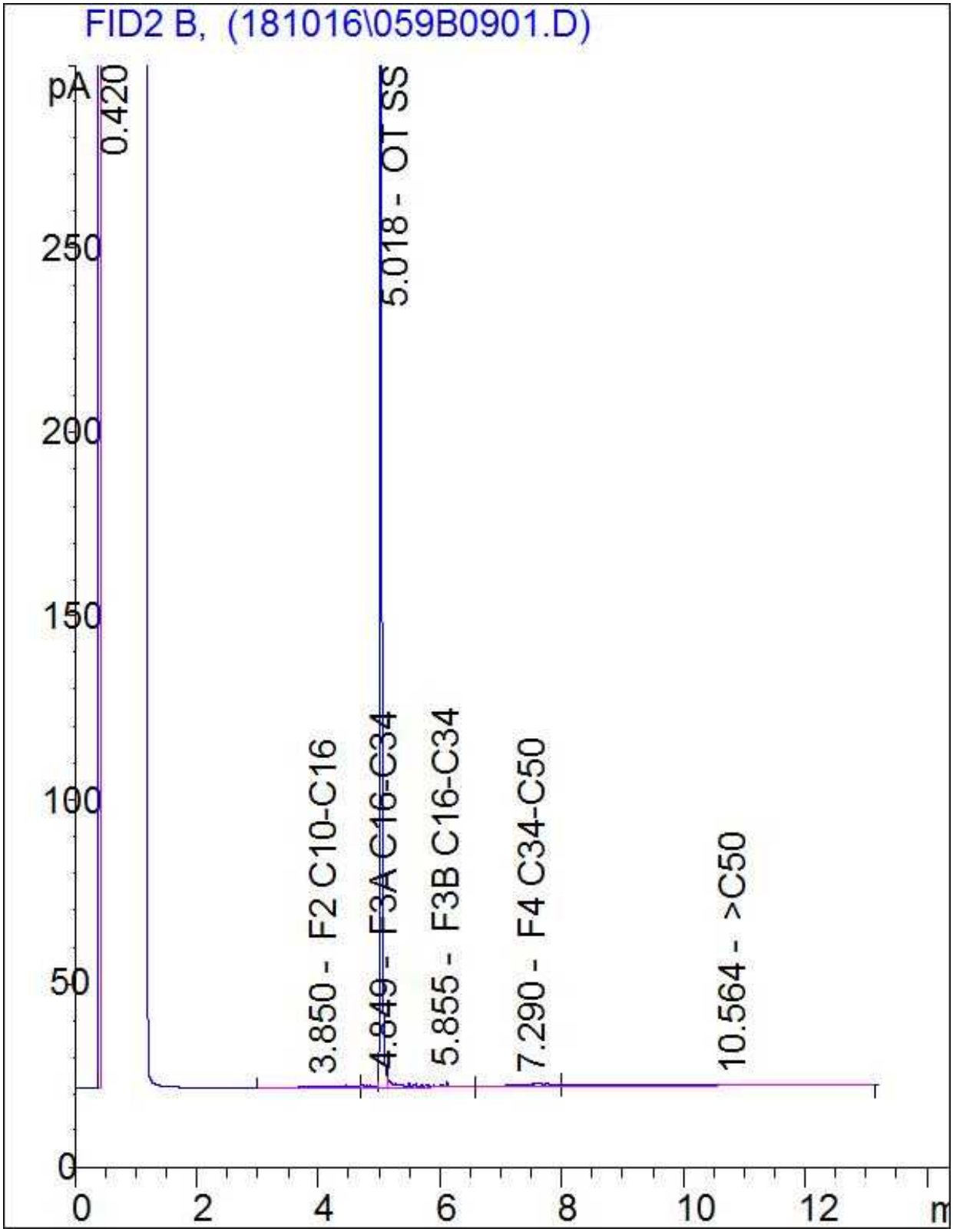


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q9429
Report Date: 2018/10/22
Maxxam Sample: HZR819

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WELL
Client ID: WG-160900764-20181011-KR08

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

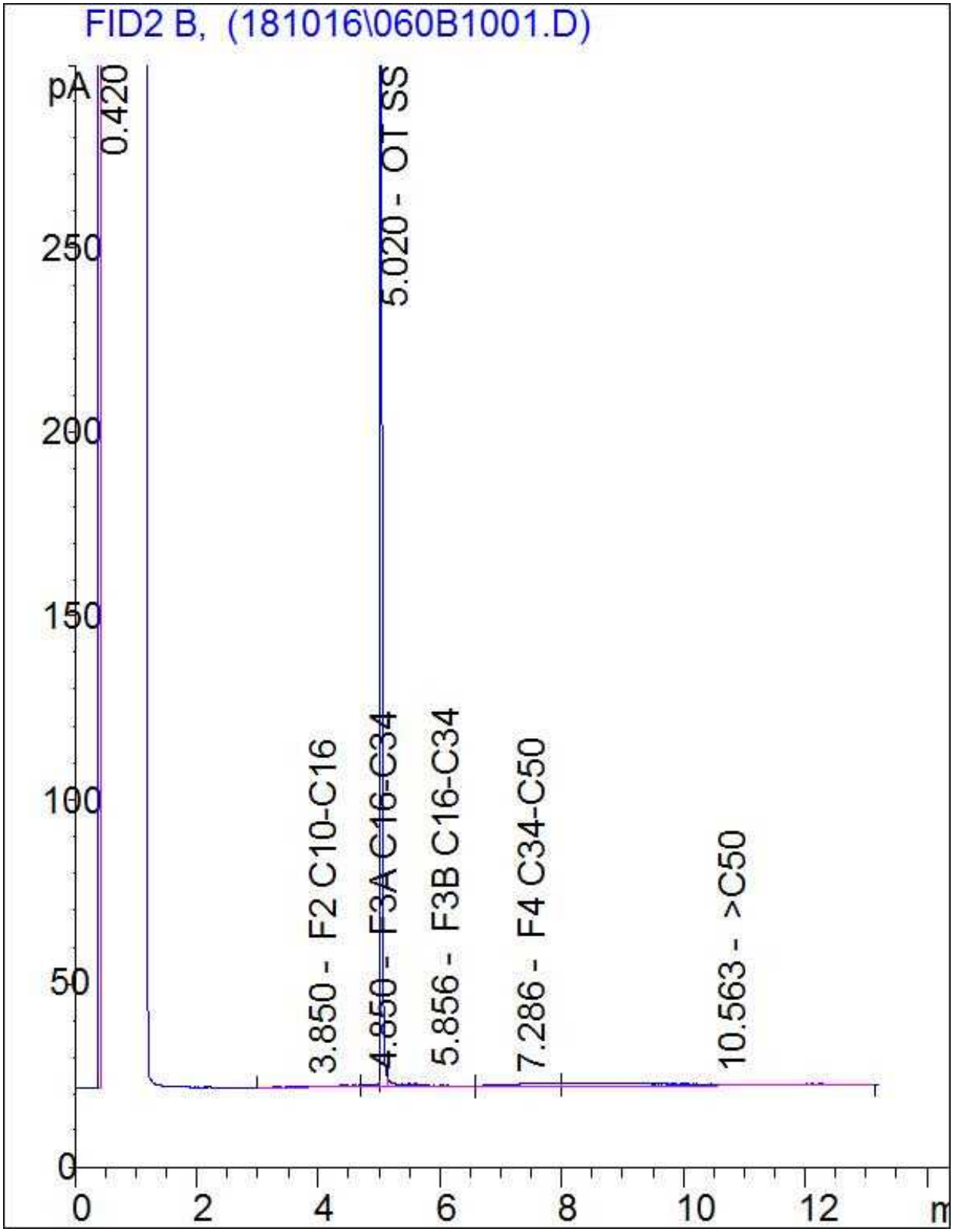


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q9429
Report Date: 2018/10/22
Maxxam Sample: HZR819 Lab-Dup

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WELL
Client ID: WG-160900764-20181011-KR08

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

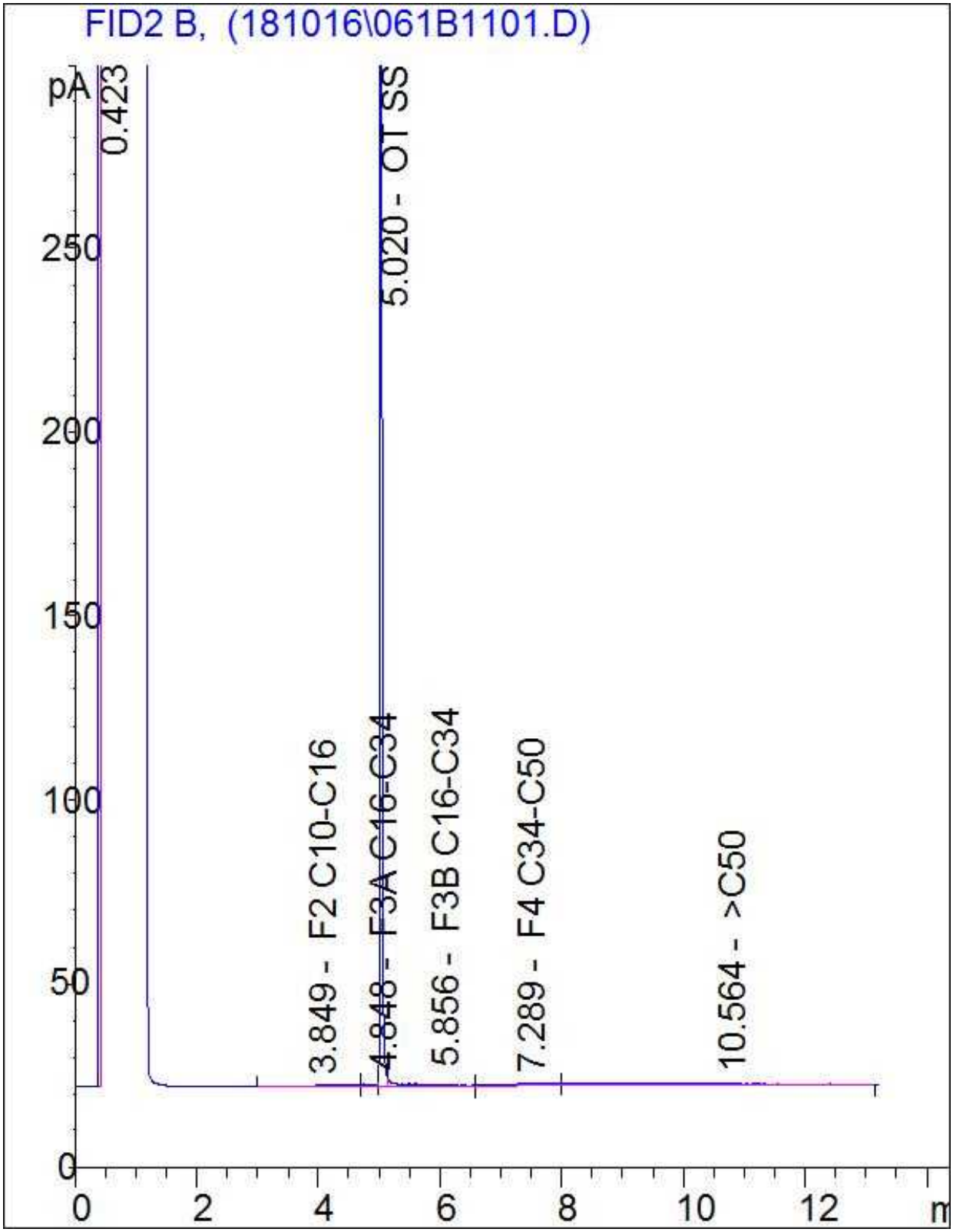


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q9429
Report Date: 2018/10/22
Maxxam Sample: HZR821

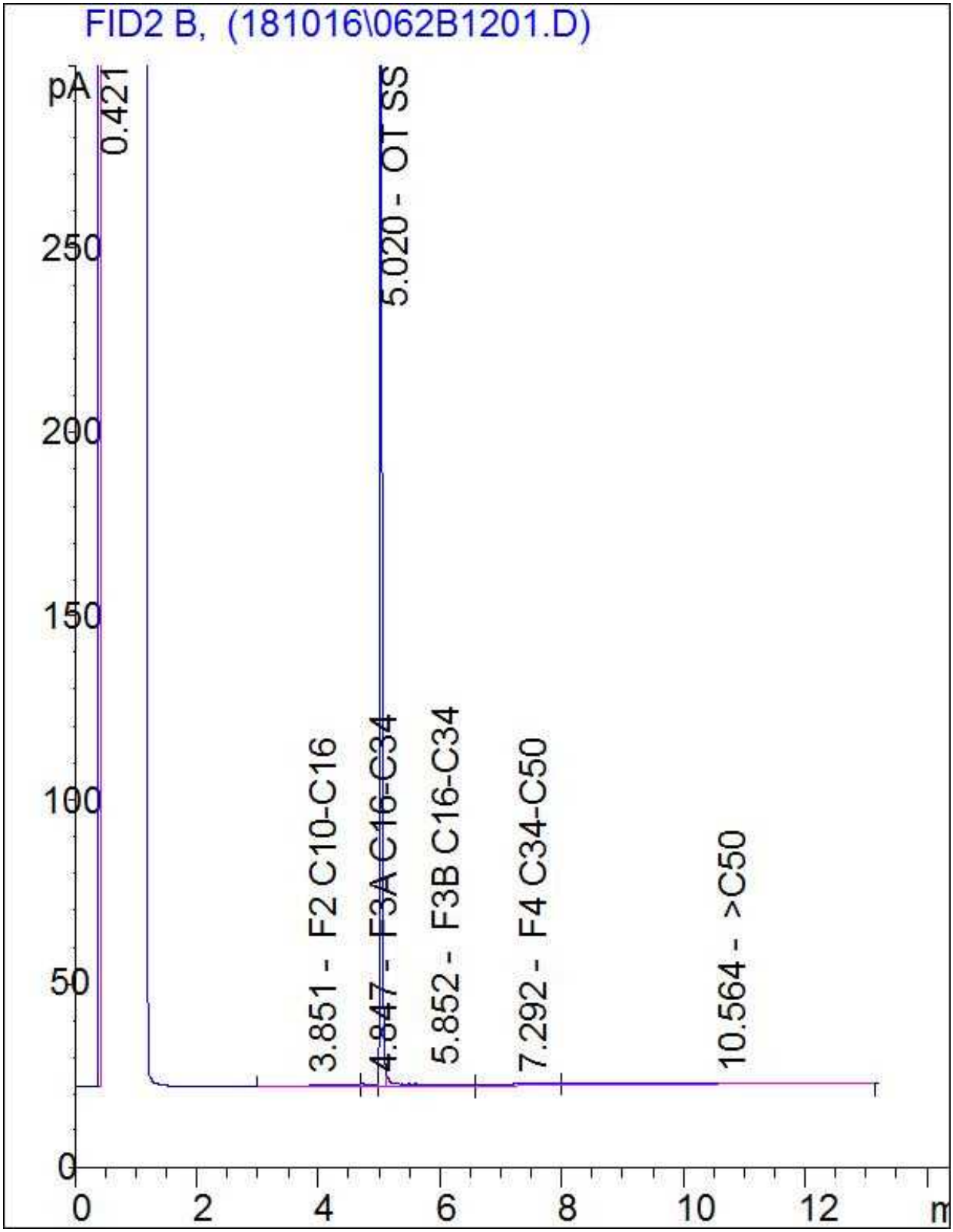
Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WELL
Client ID: WG-160900764-20181011-RD05

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

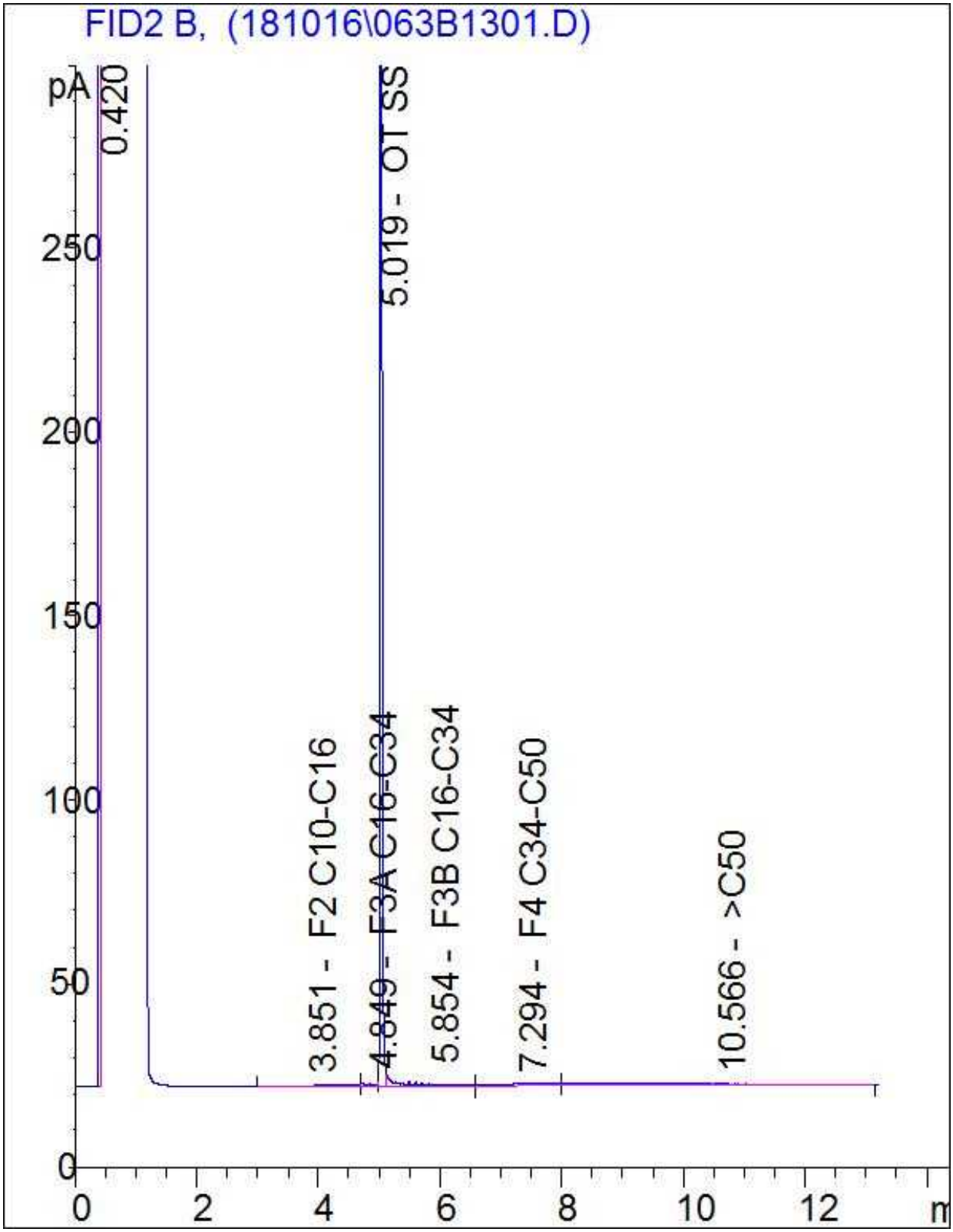


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q9429
Report Date: 2018/10/22
Maxxam Sample: HZR825

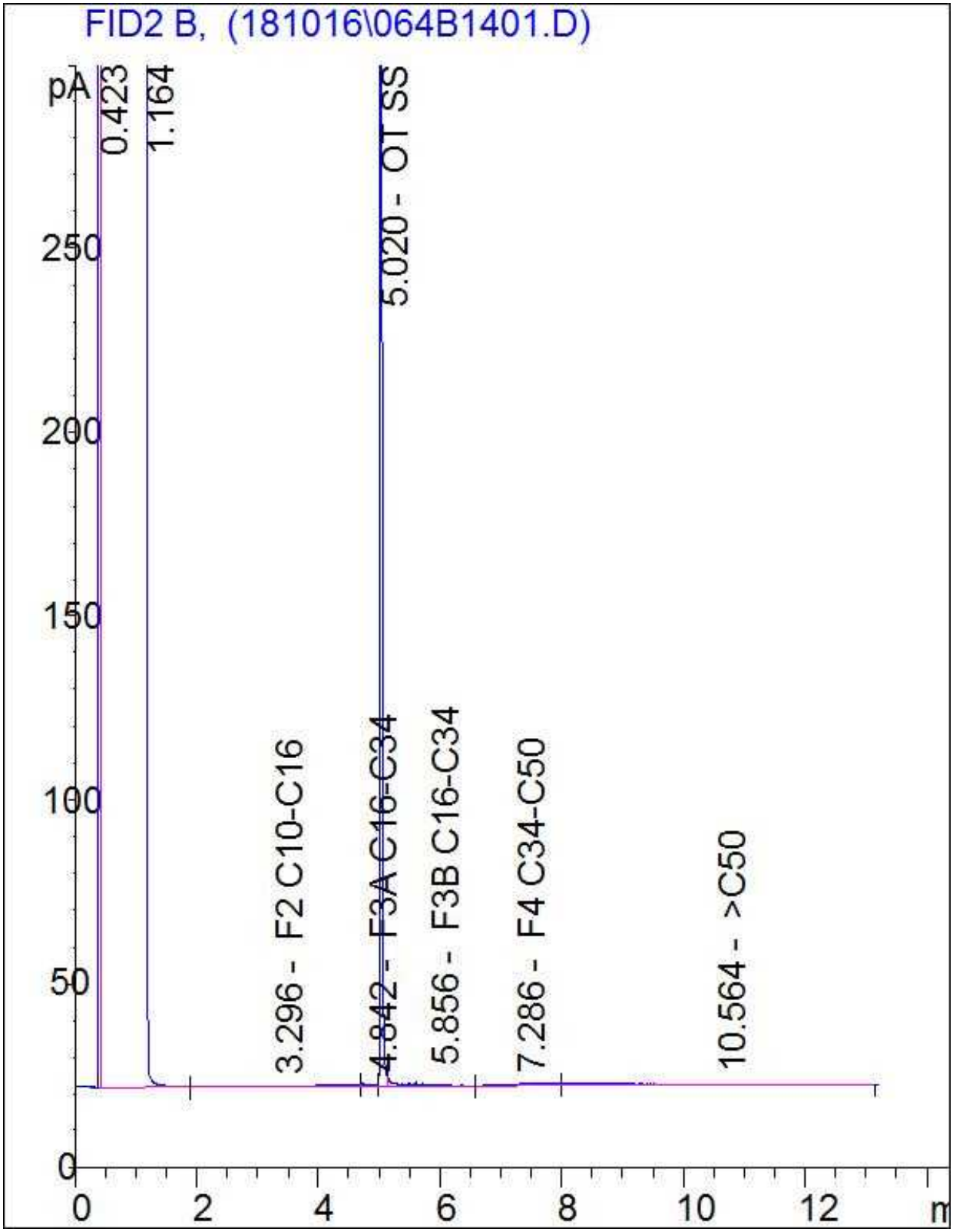
Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WELL
Client ID: WG-160900764-20181011-RD07

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

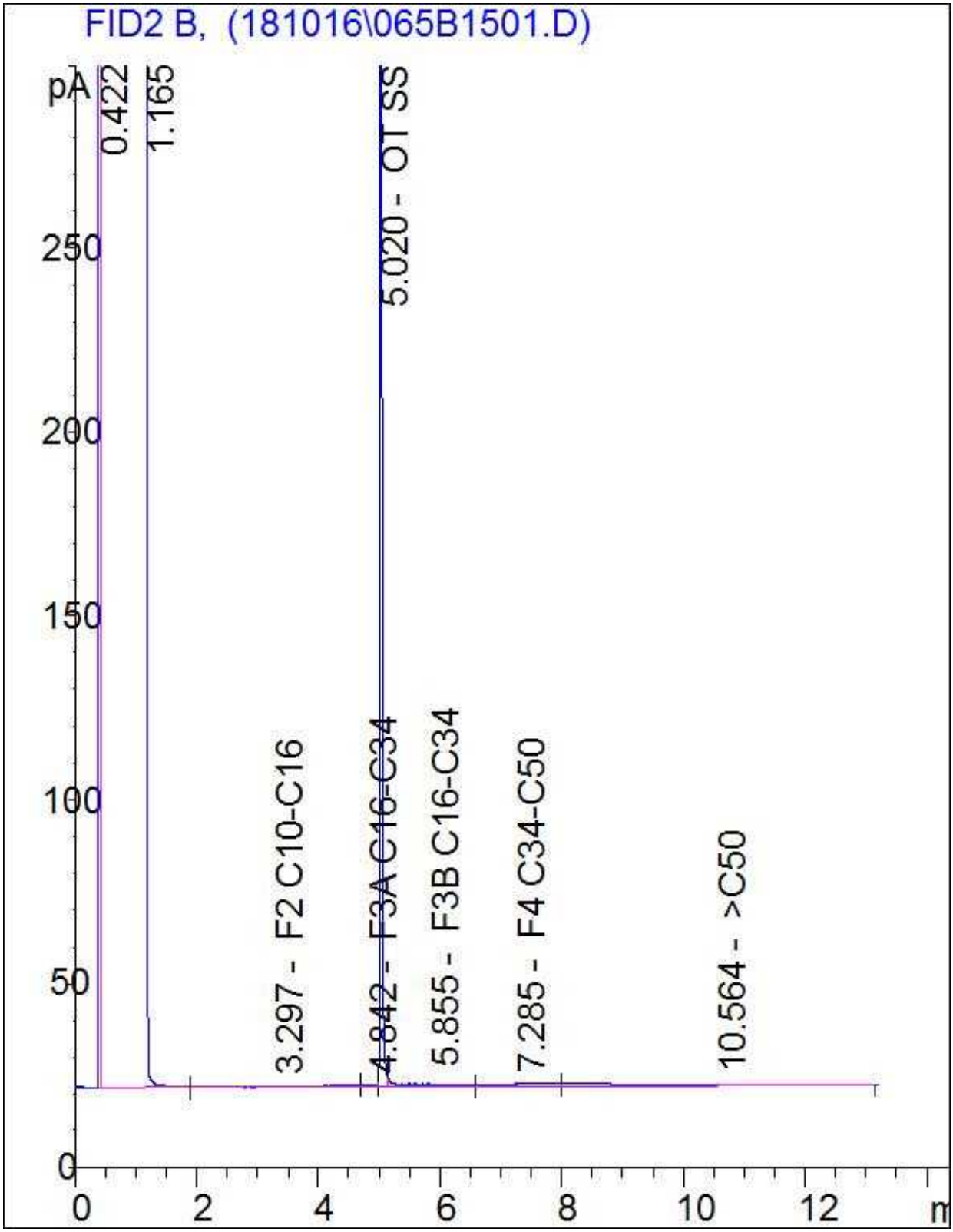


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q9429
Report Date: 2018/10/22
Maxxam Sample: HZR829

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WELL
Client ID: WG-160900764-20181011-RD08

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.