Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Your C.O.C. #: 686536-01-01

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/10/22
Report #: R5450942
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B8Q8015
Received: 2018/10/11, 08:30

Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	2	N/A	2018/10/16	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum	7	N/A	2018/10/17	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	2	2018/10/15	2018/10/15	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	7	2018/10/15	2018/10/16	CAM SOP-00301	EPA 8270 m
Acidity (CaCO3) in water (1)	7	N/A	2018/10/19		SM 22 2310
Acidity (CaCO3) in water (1)	2	N/A	2018/10/22		SM 22 2310
Alkalinity	5	N/A	2018/10/12	CAM SOP-00448	SM 23 2320 B m
Alkalinity	4	N/A	2018/10/13	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	9	N/A	2018/10/15	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	9	N/A	2018/10/16		EPA 8260C m
Chloride by Automated Colourimetry	9	N/A	2018/10/12	CAM SOP-00463	EPA 325.2 m
Conductivity	5	N/A	2018/10/12	CAM SOP-00414	SM 23 2510 m
Conductivity	4	N/A	2018/10/13	CAM SOP-00414	SM 23 2510 m
Chromium (VI) in Water	9	N/A	2018/10/16	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	7	N/A	2018/10/15	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	2	N/A	2018/10/16	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (2)	6	N/A	2018/10/13	CAM SOP-00446	SM 23 5310 B m
Dissolved Organic Carbon (DOC) (2)	3	N/A	2018/10/14	CAM SOP-00446	SM 23 5310 B m
Petroleum Hydrocarbons F2-F4 in Water (3)	7	2018/10/12	2018/10/15	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (3)	2	2018/10/15	2018/10/16	CAM SOP-00316	CCME PHC-CWS m
Fluoride	5	2018/10/11	2018/10/12	CAM SOP-00449	SM 23 4500-F C m
Fluoride	4	2018/10/11	2018/10/13	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	9	N/A	2018/10/15	CAM SOP 00102/00408/00447	SM 2340 B
Mercury	5	2018/10/16	2018/10/16	CAM SOP-00453	EPA 7470A m
Mercury	4	2018/10/16	2018/10/17	CAM SOP-00453	EPA 7470A m
Metals Analysis by ICPMS (as received) (4)	9	N/A	2018/10/15	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	9	N/A	2018/10/15		
Anion and Cation Sum	9	N/A	2018/10/15		
Total Coliforms/ E. coli, CFU/100mL	9	N/A	2018/10/11	CAM SOP-00551	MOE E3407

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

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Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Total Ammonia-N	7	N/A	2018/10/16	CAM SOP-00441	EPA GS I-2522-90 m
Total Ammonia-N	2	N/A	2018/10/17	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (5)	9	N/A	2018/10/13	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	2	2018/10/13	2018/10/13	CAM SOP-00309	EPA 8082A m
Polychlorinated Biphenyl in Water	7	2018/10/13	2018/10/14	CAM SOP-00309	EPA 8082A m
pH	5	N/A	2018/10/12	CAM SOP-00413	SM 4500H+ B m
pH	4	N/A	2018/10/13	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	4	N/A	2018/10/12	CAM SOP-00461	EPA 365.1 m
Orthophosphate	5	N/A	2018/10/15	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	9	N/A	2018/10/15		
Sat. pH and Langelier Index (@ 4C)	9	N/A	2018/10/15		
Sulphate by Automated Colourimetry	9	N/A	2018/10/12	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	9	N/A	2018/10/15		
Total Dissolved Solids	9	2018/10/15	2018/10/16	CAM SOP-00428	SM 23 2540C m
Total Organic Carbon (TOC) (6)	9	N/A	2018/10/14	CAM SOP-00446	SM 23 5310B m
Total Suspended Solids	9	2018/10/13	2018/10/15	CAM SOP-00428	SM 23 2540D m
Turbidity	9	N/A	2018/10/11	CAM SOP-00417	SM 23 2130 B m
Volatile Organic Compounds and F1 PHCs	9	N/A	2018/10/15	CAM SOP-00230	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

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CERTIFICATE OF ANALYSIS

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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.

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

Encryption Key

Colby Coutu
Project Manager Assistant
22 Oct 2018 12:32:21

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.

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Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ733			HZJ733		
Sampling Date		2018/10/10 09:35			2018/10/10 09:35		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK10**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK10 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	3.16	N/A	5778186			
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	150	1.0	5777770			
Calculated TDS	mg/L	170	1.0	5777517			
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.8	1.0	5777770			
Cation Sum	me/L	3.07	N/A	5778186			
Hardness (CaCO3)	mg/L	110	1.0	5777516			
Ion Balance (% Difference)	%	1.48	N/A	5778185			
Langelier Index (@ 20C)	N/A	0.210		5777792			
Langelier Index (@ 4C)	N/A	-0.0400		5777793			
Saturation pH (@ 20C)	N/A	7.90		5777792			
Saturation pH (@ 4C)	N/A	8.15		5777793			
Inorganics							
Total Ammonia-N	mg/L	0.33	0.050	5780945	0.28	0.050	5780945
Conductivity	umho/cm	280	1.0	5778577			
Dissolved Organic Carbon	mg/L	0.73	0.50	5779338			
Orthophosphate (P)	mg/L	<0.010	0.010	5778568			
pH	pH	8.11		5778580			
Dissolved Sulphate (SO4)	mg/L	7.4	1.0	5778559			
Alkalinity (Total as CaCO3)	mg/L	150	1.0	5778572			
Dissolved Chloride (Cl-)	mg/L	1.7	1.0	5778554			
Nitrite (N)	mg/L	<0.010	0.010	5779054			
Nitrate (N)	mg/L	<0.10	0.10	5779054			
Metals							
. Aluminum (Al)	mg/L	<0.0050	0.0050	5780261			
. Antimony (Sb)	mg/L	<0.00050	0.00050	5780261			
. Arsenic (As)	mg/L	<0.0010	0.0010	5780261			
. Barium (Ba)	mg/L	0.089	0.0020	5780261			
. Beryllium (Be)	mg/L	<0.00050	0.00050	5780261			
. Boron (B)	mg/L	0.048	0.010	5780261			

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

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RCAP - COMPREHENSIVE (DRINKING WATER)

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Sampling Date		2018/10/10 09:35			2018/10/10 09:35		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK10**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK10 Lab-Dup**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5780261			
. Calcium (Ca)	mg/L	19	0.20	5780261			
. Chromium (Cr)	mg/L	<0.0050	0.0050	5780261			
. Cobalt (Co)	mg/L	<0.00050	0.00050	5780261			
. Copper (Cu)	mg/L	0.0039	0.0010	5780261			
. Iron (Fe)	mg/L	0.32	0.10	5780261			
. Lead (Pb)	mg/L	<0.00050	0.00050	5780261			
. Magnesium (Mg)	mg/L	15	0.050	5780261			
. Manganese (Mn)	mg/L	0.0078	0.0020	5780261			
. Molybdenum (Mo)	mg/L	0.00075	0.00050	5780261			
. Nickel (Ni)	mg/L	<0.0010	0.0010	5780261			
. Phosphorus (P)	mg/L	<0.10	0.10	5780261			
. Potassium (K)	mg/L	0.50	0.20	5780261			
. Selenium (Se)	mg/L	<0.0020	0.0020	5780261			
. Silicon (Si)	mg/L	8.0	0.050	5780261			
. Silver (Ag)	mg/L	<0.00010	0.00010	5780261			
. Sodium (Na)	mg/L	19	0.10	5780261			
. Strontium (Sr)	mg/L	0.33	0.0010	5780261			
. Thallium (Tl)	mg/L	<0.000050	0.000050	5780261			
. Titanium (Ti)	mg/L	<0.0050	0.0050	5780261			
. Uranium (U)	mg/L	<0.00010	0.00010	5780261			
. Vanadium (V)	mg/L	<0.00050	0.00050	5780261			
. Zinc (Zn)	mg/L	<0.0050	0.0050	5780261			
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5780261			

RDL = Reportable Detection Limit
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RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ734			HZJ735		
Sampling Date		2018/10/10 10:26			2018/10/10 11:04		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK11**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK12**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	10.2	N/A	5778186	16.5	N/A	5778186
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	330	1.0	5777770	460	1.0	5777770
Calculated TDS	mg/L	550	1.0	5777517	920	1.0	5777517
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.0	1.0	5777770	<1.0	1.0	5777770
Cation Sum	me/L	10.0	N/A	5778186	17.0	N/A	5778186
Hardness (CaCO3)	mg/L	410	1.0	5777516	610	1.0	5777516
Ion Balance (% Difference)	%	0.690	N/A	5778185	1.34	N/A	5778185
Langelier Index (@ 20C)	N/A	0.701		5777792	0.773		5777792
Langelier Index (@ 4C)	N/A	0.453		5777793	0.526		5777793
Saturation pH (@ 20C)	N/A	6.82		5777792	6.54		5777792
Saturation pH (@ 4C)	N/A	7.07		5777793	6.79		5777793
Inorganics							
Total Ammonia-N	mg/L	0.056	0.050	5780945	0.077	0.050	5780567
Conductivity	umho/cm	940	1.0	5778577	1600	1.0	5778577
Dissolved Organic Carbon	mg/L	1.1	0.50	5779338	2.6	0.50	5778889
Orthophosphate (P)	mg/L	<0.010	0.010	5778568	<0.010	0.010	5778568
pH	pH	7.52		5778580	7.31		5778580
Dissolved Sulphate (SO4)	mg/L	37	1.0	5778559	89	1.0	5778559
Alkalinity (Total as CaCO3)	mg/L	330	1.0	5778572	460	1.0	5778572
Dissolved Chloride (Cl-)	mg/L	86	1.0	5778554	190	2.0	5778554
Nitrite (N)	mg/L	<0.010	0.010	5778641	<0.010	0.010	5779054
Nitrate (N)	mg/L	5.75	0.10	5778641	0.97	0.10	5779054
Metals							
. Aluminum (Al)	mg/L	<0.0050	0.0050	5780261	<0.0050	0.0050	5780261
. Antimony (Sb)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Arsenic (As)	mg/L	<0.0010	0.0010	5780261	<0.0010	0.0010	5780261
. Barium (Ba)	mg/L	0.063	0.0020	5780261	0.12	0.0020	5780261
. Beryllium (Be)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Boron (B)	mg/L	0.022	0.010	5780261	0.028	0.010	5780261
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5780261	<0.00010	0.00010	5780261

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Maxxam ID		HZJ734			HZJ735		
Sampling Date		2018/10/10 10:26			2018/10/10 11:04		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK11**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK12**	**RDL**	**QC Batch**
. Calcium (Ca)	mg/L	130	0.20	5780261	210	0.20	5780261
. Chromium (Cr)	mg/L	<0.0050	0.0050	5780261	<0.0050	0.0050	5780261
. Cobalt (Co)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Copper (Cu)	mg/L	0.036	0.0010	5780261	0.011	0.0010	5780261
. Iron (Fe)	mg/L	<0.10	0.10	5780261	<0.10	0.10	5780261
. Lead (Pb)	mg/L	0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Magnesium (Mg)	mg/L	18	0.050	5780261	19	0.050	5780261
. Manganese (Mn)	mg/L	<0.0020	0.0020	5780261	0.0067	0.0020	5780261
. Molybdenum (Mo)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Nickel (Ni)	mg/L	<0.0010	0.0010	5780261	<0.0010	0.0010	5780261
. Phosphorus (P)	mg/L	<0.10	0.10	5780261	<0.10	0.10	5780261
. Potassium (K)	mg/L	1.1	0.20	5780261	1.5	0.20	5780261
. Selenium (Se)	mg/L	<0.0020	0.0020	5780261	<0.0020	0.0020	5780261
. Silicon (Si)	mg/L	6.2	0.050	5780261	5.3	0.050	5780261
. Silver (Ag)	mg/L	<0.00010	0.00010	5780261	<0.00010	0.00010	5780261
. Sodium (Na)	mg/L	41	0.10	5780261	110	0.10	5780261
. Strontium (Sr)	mg/L	0.27	0.0010	5780261	0.41	0.0010	5780261
. Thallium (Tl)	mg/L	<0.000050	0.000050	5780261	<0.000050	0.000050	5780261
. Titanium (Ti)	mg/L	<0.0050	0.0050	5780261	<0.0050	0.0050	5780261
. Uranium (U)	mg/L	0.0017	0.00010	5780261	0.0011	0.00010	5780261
. Vanadium (V)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Zinc (Zn)	mg/L	0.039	0.0050	5780261	<0.0050	0.0050	5780261
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5780261	<0.0010	0.0010	5780261

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RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ736		HZJ737		
Sampling Date		2018/10/10 11:39		2018/10/10 13:14		
COC Number		686536-01-01		686536-01-01		
	UNITS	**WG-160900764-20181010-JK13**	**QC Batch**	**WG-160900764-20181010-JK14**	**RDL**	**QC Batch**
Calculated Parameters						
Anion Sum	me/L	8.90	5778186	7.41	N/A	5778186
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	330	5777770	320	1.0	5777770
Calculated TDS	mg/L	510	5777517	390	1.0	5777517
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.3	5777770	1.1	1.0	5777770
Cation Sum	me/L	8.93	5778186	7.08	N/A	5778186
Hardness (CaCO3)	mg/L	1.4	5777516	340	1.0	5777516
Ion Balance (% Difference)	%	0.170	5778185	2.23	N/A	5778185
Langelier Index (@ 20C)	N/A	-1.67	5777792	0.714		5777792
Langelier Index (@ 4C)	N/A	-1.92	5777793	0.466		5777793
Saturation pH (@ 20C)	N/A	9.28	5777792	6.85		5777792
Saturation pH (@ 4C)	N/A	9.53	5777793	7.10		5777793
Inorganics						
Total Ammonia-N	mg/L	0.075	5780945	0.064	0.050	5780945
Conductivity	umho/cm	860	5778577	660	1.0	5778577
Dissolved Organic Carbon	mg/L	1.1	5779338	1.1	0.50	5779338
Orthophosphate (P)	mg/L	0.015	5778568	<0.010	0.010	5778568
pH	pH	7.61	5778580	7.56		5778580
Dissolved Sulphate (SO4)	mg/L	38	5778559	14	1.0	5778559
Alkalinity (Total as CaCO3)	mg/L	330	5778572	330	1.0	5778572
Dissolved Chloride (Cl-)	mg/L	50	5778554	12	1.0	5778554
Nitrite (N)	mg/L	<0.010	5779054	<0.010	0.010	5778641
Nitrate (N)	mg/L	1.26	5779054	3.92	0.10	5778641
Metals						
. Aluminum (Al)	mg/L	<0.0050	5780261	0.0052	0.0050	5780261
. Antimony (Sb)	mg/L	<0.00050	5780261	<0.00050	0.00050	5780261
. Arsenic (As)	mg/L	<0.0010	5780261	<0.0010	0.0010	5780261
. Barium (Ba)	mg/L	<0.0020	5780261	0.045	0.0020	5780261
. Beryllium (Be)	mg/L	<0.00050	5780261	<0.00050	0.00050	5780261
. Boron (B)	mg/L	0.015	5780261	0.013	0.010	5780261
. Cadmium (Cd)	mg/L	<0.00010	5780261	<0.00010	0.00010	5780261

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

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ736		HZJ737		
Sampling Date		2018/10/10 11:39		2018/10/10 13:14		
COC Number		686536-01-01		686536-01-01		
	UNITS	**WG-160900764-20181010-JK13**	**QC Batch**	**WG-160900764-20181010-JK14**	**RDL**	**QC Batch**
. Calcium (Ca)	mg/L	0.46	5780261	120	0.20	5780261
. Chromium (Cr)	mg/L	<0.0050	5780261	<0.0050	0.0050	5780261
. Cobalt (Co)	mg/L	<0.00050	5780261	<0.00050	0.00050	5780261
. Copper (Cu)	mg/L	0.039	5780261	0.0060	0.0010	5780261
. Iron (Fe)	mg/L	<0.10	5780261	<0.10	0.10	5780261
. Lead (Pb)	mg/L	0.00071	5780261	<0.00050	0.00050	5780261
. Magnesium (Mg)	mg/L	0.063	5780261	11	0.050	5780261
. Manganese (Mn)	mg/L	<0.0020	5780261	<0.0020	0.0020	5780261
. Molybdenum (Mo)	mg/L	<0.00050	5780261	<0.00050	0.00050	5780261
. Nickel (Ni)	mg/L	<0.0010	5780261	<0.0010	0.0010	5780261
. Phosphorus (P)	mg/L	<0.10	5780261	<0.10	0.10	5780261
. Potassium (K)	mg/L	0.23	5780261	1.0	0.20	5780261
. Selenium (Se)	mg/L	<0.0020	5780261	<0.0020	0.0020	5780261
. Silicon (Si)	mg/L	6.6	5780261	6.2	0.050	5780261
. Silver (Ag)	mg/L	<0.00010	5780261	<0.00010	0.00010	5780261
. Sodium (Na)	mg/L	200	5780261	6.4	0.10	5780261
. Strontium (Sr)	mg/L	<0.0010	5780261	0.22	0.0010	5780261
. Thallium (Tl)	mg/L	<0.000050	5780261	<0.000050	0.000050	5780261
. Titanium (Ti)	mg/L	<0.0050	5780261	<0.0050	0.0050	5780261
. Uranium (U)	mg/L	0.0047	5780261	0.00061	0.00010	5780261
. Vanadium (V)	mg/L	<0.00050	5780261	<0.00050	0.00050	5780261
. Zinc (Zn)	mg/L	<0.0050	5780261	<0.0050	0.0050	5780261
. Zirconium (Zr)	mg/L	<0.0010	5780261	<0.0010	0.0010	5780261

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ738			HZJ738		
Sampling Date		2018/10/10 13:58			2018/10/10 13:58		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK15**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK15 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	6.08	N/A	5778186			
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	220	1.0	5777770			
Calculated TDS	mg/L	330	1.0	5777517			
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.6	1.0	5777770			
Cation Sum	me/L	6.23	N/A	5778186			
Hardness (CaCO3)	mg/L	300	1.0	5777516			
Ion Balance (% Difference)	%	1.24	N/A	5778185			
Langelier Index (@ 20C)	N/A	0.735		5777792			
Langelier Index (@ 4C)	N/A	0.486		5777793			
Saturation pH (@ 20C)	N/A	7.16		5777792			
Saturation pH (@ 4C)	N/A	7.41		5777793			
Inorganics							
Total Ammonia-N	mg/L	0.086	0.050	5780945			
Conductivity	umho/cm	560	1.0	5779036			
Dissolved Organic Carbon	mg/L	0.76	0.50	5778889			
Orthophosphate (P)	mg/L	<0.010	0.010	5779119			
pH	pH	7.89		5779042			
Dissolved Sulphate (SO4)	mg/L	54	1.0	5779107			
Alkalinity (Total as CaCO3)	mg/L	230	1.0	5779012			
Dissolved Chloride (Cl-)	mg/L	15	1.0	5779098			
Nitrite (N)	mg/L	<0.010	0.010	5779054	<0.010	0.010	5779054
Nitrate (N)	mg/L	<0.10	0.10	5779054	<0.10	0.10	5779054
Metals							
. Aluminum (Al)	mg/L	<0.0050	0.0050	5780261			
. Antimony (Sb)	mg/L	<0.00050	0.00050	5780261			
. Arsenic (As)	mg/L	<0.0010	0.0010	5780261			
. Barium (Ba)	mg/L	0.045	0.0020	5780261			
. Beryllium (Be)	mg/L	<0.00050	0.00050	5780261			
. Boron (B)	mg/L	<0.010	0.010	5780261			

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

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ738			HZJ738		
Sampling Date		2018/10/10 13:58			2018/10/10 13:58		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK15**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK15 Lab-Dup**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5780261			
. Calcium (Ca)	mg/L	81	0.20	5780261			
. Chromium (Cr)	mg/L	<0.0050	0.0050	5780261			
. Cobalt (Co)	mg/L	<0.00050	0.00050	5780261			
. Copper (Cu)	mg/L	0.0039	0.0010	5780261			
. Iron (Fe)	mg/L	3.0	0.10	5780261			
. Lead (Pb)	mg/L	<0.00050	0.00050	5780261			
. Magnesium (Mg)	mg/L	23	0.050	5780261			
. Manganese (Mn)	mg/L	0.029	0.0020	5780261			
. Molybdenum (Mo)	mg/L	0.0031	0.00050	5780261			
. Nickel (Ni)	mg/L	<0.0010	0.0010	5780261			
. Phosphorus (P)	mg/L	<0.10	0.10	5780261			
. Potassium (K)	mg/L	1.2	0.20	5780261			
. Selenium (Se)	mg/L	<0.0020	0.0020	5780261			
. Silicon (Si)	mg/L	5.7	0.050	5780261			
. Silver (Ag)	mg/L	<0.00010	0.00010	5780261			
. Sodium (Na)	mg/L	4.3	0.10	5780261			
. Strontium (Sr)	mg/L	0.27	0.0010	5780261			
. Thallium (Tl)	mg/L	<0.000050	0.000050	5780261			
. Titanium (Ti)	mg/L	<0.0050	0.0050	5780261			
. Uranium (U)	mg/L	0.00073	0.00010	5780261			
. Vanadium (V)	mg/L	<0.00050	0.00050	5780261			
. Zinc (Zn)	mg/L	<0.0050	0.0050	5780261			
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5780261			

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ739			HZJ740		
Sampling Date		2018/10/10 14:58			2018/10/10 15:47		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK16**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK17**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	6.98	N/A	5778186	18.7	N/A	5778186
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	280	1.0	5777770	290	1.0	5777770
Calculated TDS	mg/L	370	1.0	5777517	1000	1.0	5777517
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.5	1.0	5777770	1.8	1.0	5777770
Cation Sum	me/L	6.53	N/A	5778186	17.9	N/A	5778186
Hardness (CaCO3)	mg/L	310	1.0	5777516	180	1.0	5777516
Ion Balance (% Difference)	%	3.27	N/A	5778185	2.38	N/A	5778185
Langelier Index (@ 20C)	N/A	0.810		5777792	0.341		5777792
Langelier Index (@ 4C)	N/A	0.560		5777793	0.0950		5777793
Saturation pH (@ 20C)	N/A	6.95		5777792	7.48		5777792
Saturation pH (@ 4C)	N/A	7.20		5777793	7.72		5777793
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	5780567	0.17	0.050	5780945
Conductivity	umho/cm	620	1.0	5779036	2000	1.0	5779036
Dissolved Organic Carbon	mg/L	0.95	0.50	5779338	1.5	0.50	5779338
Orthophosphate (P)	mg/L	<0.010	0.010	5779119	<0.010	0.010	5779119
pH	pH	7.76		5779042	7.82		5779042
Dissolved Sulphate (SO4)	mg/L	18	1.0	5779107	37	1.0	5779107
Alkalinity (Total as CaCO3)	mg/L	280	1.0	5779012	290	1.0	5779012
Dissolved Chloride (Cl-)	mg/L	15	1.0	5779098	430	5.0	5779098
Nitrite (N)	mg/L	<0.010	0.010	5779054	0.013	0.010	5779054
Nitrate (N)	mg/L	7.46	0.10	5779054	<0.10	0.10	5779054
Metals							
. Aluminum (Al)	mg/L	<0.0050	0.0050	5780261	<0.0050	0.0050	5780261
. Antimony (Sb)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Arsenic (As)	mg/L	<0.0010	0.0010	5780261	<0.0010	0.0010	5780261
. Barium (Ba)	mg/L	0.045	0.0020	5780261	0.069	0.0020	5780261
. Beryllium (Be)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Boron (B)	mg/L	<0.010	0.010	5780261	0.024	0.010	5780261
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5780261	<0.00010	0.00010	5780261

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

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ739			HZJ740		
Sampling Date		2018/10/10 14:58			2018/10/10 15:47		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK16**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK17**	**RDL**	**QC Batch**
. Calcium (Ca)	mg/L	110	0.20	5780261	40	0.20	5780261
. Chromium (Cr)	mg/L	<0.0050	0.0050	5780261	<0.0050	0.0050	5780261
. Cobalt (Co)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Copper (Cu)	mg/L	0.0051	0.0010	5780261	0.031	0.0010	5780261
. Iron (Fe)	mg/L	<0.10	0.10	5780261	0.48	0.10	5780261
. Lead (Pb)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Magnesium (Mg)	mg/L	11	0.050	5780261	19	0.050	5780261
. Manganese (Mn)	mg/L	<0.0020	0.0020	5780261	0.016	0.0020	5780261
. Molybdenum (Mo)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Nickel (Ni)	mg/L	<0.0010	0.0010	5780261	<0.0010	0.0010	5780261
. Phosphorus (P)	mg/L	<0.10	0.10	5780261	<0.10	0.10	5780261
. Potassium (K)	mg/L	0.89	0.20	5780261	0.86	0.20	5780261
. Selenium (Se)	mg/L	<0.0020	0.0020	5780261	<0.0020	0.0020	5780261
. Silicon (Si)	mg/L	6.3	0.050	5780261	8.3	0.050	5780261
. Silver (Ag)	mg/L	<0.00010	0.00010	5780261	<0.00010	0.00010	5780261
. Sodium (Na)	mg/L	5.0	0.10	5780261	330	0.10	5780261
. Strontium (Sr)	mg/L	0.20	0.0010	5780261	0.17	0.0010	5780261
. Thallium (Tl)	mg/L	<0.000050	0.000050	5780261	<0.000050	0.000050	5780261
. Titanium (Ti)	mg/L	<0.0050	0.0050	5780261	<0.0050	0.0050	5780261
. Uranium (U)	mg/L	0.00058	0.00010	5780261	0.00015	0.00010	5780261
. Vanadium (V)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Zinc (Zn)	mg/L	0.0078	0.0050	5780261	0.14	0.0050	5780261
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5780261	<0.0010	0.0010	5780261

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ740			HZJ741		
Sampling Date		2018/10/10 15:47			2018/10/10 16:46		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK17 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK18**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L				8.50	N/A	5778186
Bicarb. Alkalinity (calc. as CaCO3)	mg/L				330	1.0	5777770
Calculated TDS	mg/L				450	1.0	5777517
Carb. Alkalinity (calc. as CaCO3)	mg/L				1.5	1.0	5777770
Cation Sum	me/L				8.21	N/A	5778186
Hardness (CaCO3)	mg/L				360	1.0	5777516
Ion Balance (% Difference)	%				1.71	N/A	5778185
Langelier Index (@ 20C)	N/A				0.842		5777792
Langelier Index (@ 4C)	N/A				0.594		5777793
Saturation pH (@ 20C)	N/A				6.84		5777792
Saturation pH (@ 4C)	N/A				7.09		5777793
Inorganics							
Total Ammonia-N	mg/L				0.068	0.050	5780945
Conductivity	umho/cm	2000	1.0	5779036	780	1.0	5779036
Dissolved Organic Carbon	mg/L				1.6	0.50	5778889
Orthophosphate (P)	mg/L				0.014	0.010	5779119
pH	pH	7.78		5779042	7.68		5779042
Dissolved Sulphate (SO4)	mg/L				17	1.0	5779107
Alkalinity (Total as CaCO3)	mg/L	290	1.0	5779012	330	1.0	5779012
Dissolved Chloride (Cl-)	mg/L				44	1.0	5779098
Nitrite (N)	mg/L				<0.010	0.010	5779054
Nitrate (N)	mg/L				3.62	0.10	5779054
Metals							
. Aluminum (Al)	mg/L	<0.0050	0.0050	5780261	0.0069	0.0050	5780261
. Antimony (Sb)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Arsenic (As)	mg/L	<0.0010	0.0010	5780261	<0.0010	0.0010	5780261
. Barium (Ba)	mg/L	0.069	0.0020	5780261	0.058	0.0020	5780261
. Beryllium (Be)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Boron (B)	mg/L	0.025	0.010	5780261	0.028	0.010	5780261

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ740			HZJ741		
Sampling Date		2018/10/10 15:47			2018/10/10 16:46		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK17 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK18**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5780261	<0.00010	0.00010	5780261
. Calcium (Ca)	mg/L	41	0.20	5780261	120	0.20	5780261
. Chromium (Cr)	mg/L	<0.0050	0.0050	5780261	<0.0050	0.0050	5780261
. Cobalt (Co)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Copper (Cu)	mg/L	0.032	0.0010	5780261	0.017	0.0010	5780261
. Iron (Fe)	mg/L	0.50	0.10	5780261	<0.10	0.10	5780261
. Lead (Pb)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Magnesium (Mg)	mg/L	20	0.050	5780261	14	0.050	5780261
. Manganese (Mn)	mg/L	0.016	0.0020	5780261	0.0024	0.0020	5780261
. Molybdenum (Mo)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Nickel (Ni)	mg/L	<0.0010	0.0010	5780261	<0.0010	0.0010	5780261
. Phosphorus (P)	mg/L	<0.10	0.10	5780261	<0.10	0.10	5780261
. Potassium (K)	mg/L	0.90	0.20	5780261	2.0	0.20	5780261
. Selenium (Se)	mg/L	<0.0020	0.0020	5780261	<0.0020	0.0020	5780261
. Silicon (Si)	mg/L	8.5	0.050	5780261	6.7	0.050	5780261
. Silver (Ag)	mg/L	<0.00010	0.00010	5780261	<0.00010	0.00010	5780261
. Sodium (Na)	mg/L	340	0.10	5780261	21	0.10	5780261
. Strontium (Sr)	mg/L	0.18	0.0010	5780261	0.26	0.0010	5780261
. Thallium (Tl)	mg/L	<0.000050	0.000050	5780261	<0.000050	0.000050	5780261
. Titanium (Ti)	mg/L	<0.0050	0.0050	5780261	<0.0050	0.0050	5780261
. Uranium (U)	mg/L	0.00015	0.00010	5780261	0.00038	0.00010	5780261
. Vanadium (V)	mg/L	<0.00050	0.00050	5780261	<0.00050	0.00050	5780261
. Zinc (Zn)	mg/L	0.14	0.0050	5780261	0.017	0.0050	5780261
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5780261	<0.0010	0.0010	5780261

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

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZJ741		
Sampling Date		2018/10/10 16:46		
COC Number		686536-01-01		
	UNITS	**WG-160900764-20181010-JK18 Lab-Dup**	**RDL**	**QC Batch**
Inorganics				
Orthophosphate (P)	mg/L	0.011	0.010	5779119
Dissolved Sulphate (SO4)	mg/L	17	1.0	5779107
Dissolved Chloride (Cl-)	mg/L	44	1.0	5779098

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

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Client Project #: 160900764
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Sampler Initials: JK

RESULTS OF ANALYSES OF WATER

Maxxam ID		HZJ733	HZJ734	HZJ735		
Sampling Date		2018/10/10 09:35	2018/10/10 10:26	2018/10/10 11:04		
COC Number		686536-01-01	686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK10**	**WG-160900764-20181010-JK11**	**WG-160900764-20181010-JK12**	**RDL**	**QC Batch**
Inorganics						
Acidity	mg/L	<5.0	33	91	5.0	5792146
Total Dissolved Solids	mg/L	120	485	900	10	5783158
Fluoride (F-)	mg/L	0.20	<0.10	<0.10	0.10	5778569
Total Organic Carbon (TOC)	mg/L	0.74	1.0	2.4	0.50	5780456
Total Suspended Solids	mg/L	<10	<10	<10	10	5780504
Turbidity	NTU	0.8	<0.1	<0.1	0.1	5778368
WAD Cyanide (Free)	ug/L	<1	<1	<1	1	5783527

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HZJ736		HZJ737		HZJ738		
Sampling Date		2018/10/10 11:39		2018/10/10 13:14		2018/10/10 13:58		
COC Number		686536-01-01		686536-01-01		686536-01-01		
	UNITS	**WG-160900764-20181010-JK13**	**QC Batch**	**WG-160900764-20181010-JK14**	**QC Batch**	**WG-160900764-20181010-JK15**	**RDL**	**QC Batch**
Inorganics								
Acidity	mg/L	21	5792146	33	5792146	15	5.0	5792146
Total Dissolved Solids	mg/L	480	5783158	345	5783158	300	10	5783158
Fluoride (F-)	mg/L	<0.10	5778569	<0.10	5778569	<0.10	0.10	5779039
Total Organic Carbon (TOC)	mg/L	1.1	5780456	1.0	5780456	0.83	0.50	5780456
Total Suspended Solids	mg/L	<10	5780504	<10	5780504	<10	10	5780504
Turbidity	NTU	0.2	5778368	0.1	5778368	33	0.1	5778368
WAD Cyanide (Free)	ug/L	<1	5785296	<1	5783527	<1	1	5783527

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Sampler Initials: JK

RESULTS OF ANALYSES OF WATER

Maxxam ID		HZJ738			HZJ739		
Sampling Date		2018/10/10 13:58			2018/10/10 14:58		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK15 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK16**	**RDL**	**QC Batch**
Inorganics							
Acidity	mg/L				25	5.0	5792146
Total Dissolved Solids	mg/L				330	10	5783158
Fluoride (F-)	mg/L				<0.10	0.10	5779039
Total Organic Carbon (TOC)	mg/L	0.77	0.50	5780456	0.90	0.50	5780456
Total Suspended Solids	mg/L				<10	10	5780504
Turbidity	NTU				<0.1	0.1	5778368
WAD Cyanide (Free)	ug/L				<1	1	5783527

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

Maxxam ID		HZJ739			HZJ740		
Sampling Date		2018/10/10 14:58			2018/10/10 15:47		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK16 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK17**	**RDL**	**QC Batch**
Inorganics							
Acidity	mg/L				18	5.0	5795207
Total Dissolved Solids	mg/L				970	10	5783158
Fluoride (F-)	mg/L				<0.10	0.10	5779039
Total Organic Carbon (TOC)	mg/L				1.5	0.50	5780456
Total Suspended Solids	mg/L	<10	10	5780504	<10	10	5780504
Turbidity	NTU				0.3	0.1	5778368
WAD Cyanide (Free)	ug/L				<1	1	5785257

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

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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RESULTS OF ANALYSES OF WATER

Maxxam ID		HZJ740			HZJ741		
Sampling Date		2018/10/10 15:47			2018/10/10 16:46		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK17 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK18**	**RDL**	**QC Batch**
Inorganics							
Acidity	mg/L	18	5.0	5795207	31	5.0	5795207
Total Dissolved Solids	mg/L				425	10	5783158
Fluoride (F-)	mg/L	<0.10	0.10	5779039	<0.10	0.10	5779039
Total Organic Carbon (TOC)	mg/L				1.6	0.50	5780456
Total Suspended Solids	mg/L				<10	10	5780504
Turbidity	NTU				0.2	0.1	5778368
WAD Cyanide (Free)	ug/L				<1	1	5783527

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

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Sampler Initials: JK

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		HZJ733		HZJ734	HZJ735		
Sampling Date		2018/10/10 09:35		2018/10/10 10:26	2018/10/10 11:04		
COC Number		686536-01-01		686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK10**	**QC Batch**	**WG-160900764-20181010-JK11**	**WG-160900764-20181010-JK12**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	<0.50	5779009	0.52	<0.50	0.50	5779009
Mercury (Hg)	ug/L	<0.1	5785671	<0.1	<0.1	0.1	5785167

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HZJ736			HZJ736		
Sampling Date		2018/10/10 11:39			2018/10/10 11:39		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK13**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK13 Lab-Dup**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	<0.50	0.50	5779009	0.51	0.50	5779009
Mercury (Hg)	ug/L	<0.1	0.1	5785167			

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

Maxxam ID		HZJ737		HZJ738	HZJ739		
Sampling Date		2018/10/10 13:14		2018/10/10 13:58	2018/10/10 14:58		
COC Number		686536-01-01		686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK14**	**QC Batch**	**WG-160900764-20181010-JK15**	**WG-160900764-20181010-JK16**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	0.55	5779009	<0.50	0.80	0.50	5779009
Mercury (Hg)	ug/L	<0.1	5785167	<0.1	<0.1	0.1	5785671

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		HZJ740		HZJ741		
Sampling Date		2018/10/10 15:47		2018/10/10 16:46		
COC Number		686536-01-01		686536-01-01		
	UNITS	**WG-160900764-20181010-JK17**	**QC Batch**	**WG-160900764-20181010-JK18**	**RDL**	**QC Batch**
Metals						
Chromium (VI)	ug/L	<0.50	5779009	<0.50	0.50	5779009
Mercury (Hg)	ug/L	<0.1	5785671	<0.1	0.1	5785167

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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MICROBIOLOGY (WATER)

Maxxam ID		HZJ733	HZJ734	HZJ735	HZJ736	
Sampling Date		2018/10/10 09:35	2018/10/10 10:26	2018/10/10 11:04	2018/10/10 11:39	
COC Number		686536-01-01	686536-01-01	686536-01-01	686536-01-01	
	UNITS	**WG-160900764-20181010-JK10**	**WG-160900764-20181010-JK11**	**WG-160900764-20181010-JK12**	**WG-160900764-20181010-JK13**	**QC Batch**
Microbiological						
Background	CFU/100mL	0	0	NDOGT (1)	3	5778571
Total Coliforms	CFU/100mL	0	0	NDOGT (1)	0	5778571
Escherichia coli	CFU/100mL	0	0	NDOGT (1)	0	5778571

QC Batch = Quality Control Batch
(1) NDOGT: No data due to overgrowth. Total coliforms and / or E.coli detected

Maxxam ID		HZJ737	HZJ738	HZJ739	HZJ740	
Sampling Date		2018/10/10 13:14	2018/10/10 13:58	2018/10/10 14:58	2018/10/10 15:47	
COC Number		686536-01-01	686536-01-01	686536-01-01	686536-01-01	
	UNITS	**WG-160900764-20181010-JK14**	**WG-160900764-20181010-JK15**	**WG-160900764-20181010-JK16**	**WG-160900764-20181010-JK17**	**QC Batch**
Microbiological						
Background	CFU/100mL	250	0	82	220	5778571
Total Coliforms	CFU/100mL	28	0	34	7	5778571
Escherichia coli	CFU/100mL	0	0	0	0	5778571

QC Batch = Quality Control Batch

Maxxam ID		HZJ741	
Sampling Date		2018/10/10 16:46	
COC Number		686536-01-01	
	UNITS	**WG-160900764-20181010-JK18**	**QC Batch**
Microbiological			
Background	CFU/100mL	NDOGT (1)	5778571
Total Coliforms	CFU/100mL	NDOGT (1)	5778571
Escherichia coli	CFU/100mL	NDOGT (1)	5778571

QC Batch = Quality Control Batch
(1) NDOGT: No data due to overgrowth. Total coliforms and / or E.coli detected

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O.REG 153 PCBS (WATER)

Maxxam ID		HZJ733	HZJ734	HZJ734	HZJ735		
Sampling Date		2018/10/10 09:35	2018/10/10 10:26	2018/10/10 10:26	2018/10/10 11:04		
COC Number		686536-01-01	686536-01-01	686536-01-01	686536-01-01		
	UNITS	WG-160900764-20181010-JK10	WG-160900764-20181010-JK11	WG-160900764-20181010-JK11 Lab-Dup	WG-160900764-20181010-JK12	RDL	QC Batch
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5782043
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5782043
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5782043
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5782043
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5782043
Surrogate Recovery (%)							
Decachlorobiphenyl	%	60	66	60	55 (1)		5782043

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) The Surrogate recovery was below the acceptance criteria as stipulated by Ontario Regulation 153, however, this recovery is still within Maxxam's performance based criteria. Results reported with surrogate recoveries within this range are still valid but may have an associated low bia

Maxxam ID		HZJ736	HZJ737	HZJ738	HZJ739		
Sampling Date		2018/10/10 11:39	2018/10/10 13:14	2018/10/10 13:58	2018/10/10 14:58		
COC Number		686536-01-01	686536-01-01	686536-01-01	686536-01-01		
	UNITS	WG-160900764-20181010-JK13	WG-160900764-20181010-JK14	WG-160900764-20181010-JK15	WG-160900764-20181010-JK16	RDL	QC Batch
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5782043
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5782043
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5782043
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5782043
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5782043
Surrogate Recovery (%)							
Decachlorobiphenyl	%	66	57 (1)	50 (1)	57 (1)		5782043

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) The Surrogate recovery was below the acceptance criteria as stipulated by Ontario Regulation 153, however, this recovery is still within Maxxam's performance based criteria. Results reported with surrogate recoveries within this range are still valid but may have an associated low bia

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O.REG 153 PCBS (WATER)

Maxxam ID		HZJ740	HZJ741		
Sampling Date		2018/10/10 15:47	2018/10/10 16:46		
COC Number		686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK17**	**WG-160900764-20181010-JK18**	**RDL**	**QC Batch**
PCBs					
Aroclor 1242	ug/L	<0.05	<0.05	0.05	5782043
Aroclor 1248	ug/L	<0.05	<0.05	0.05	5782043
Aroclor 1254	ug/L	<0.05	<0.05	0.05	5782043
Aroclor 1260	ug/L	<0.05	<0.05	0.05	5782043
Total PCB	ug/L	<0.05	<0.05	0.05	5782043
Surrogate Recovery (%)					
Decachlorobiphenyl	%	56 (1)	56 (1)		5782043

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) The Surrogate recovery was below the acceptance criteria as stipulated by Ontario Regulation 153, however, this recovery is still within Maxxam's performance based criteria. Results reported with surrogate recoveries within this range are still valid but may have an associated low bias.

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Sampler Initials: JK

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

Maxxam ID		HZJ733			HZJ733		
Sampling Date		2018/10/10 09:35			2018/10/10 09:35		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK10**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK10 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	5777305			
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	10	5778343	<10	10	5778343
Benzene	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
Bromodichloromethane	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
Bromoform	ug/L	<1.0	1.0	5778343	<1.0	1.0	5778343
Bromomethane	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
Carbon Tetrachloride	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
Chlorobenzene	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
Chloroform	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
Dibromochloromethane	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
1,2-Dichlorobenzene	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
1,3-Dichlorobenzene	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
1,4-Dichlorobenzene	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	5778343	<1.0	1.0	5778343
1,1-Dichloroethane	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
1,2-Dichloroethane	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
1,1-Dichloroethylene	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
1,2-Dichloropropane	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	5778343	<0.30	0.30	5778343
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	5778343	<0.40	0.40	5778343
Ethylbenzene	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
Ethylene Dibromide	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
Hexane	ug/L	<1.0	1.0	5778343	<1.0	1.0	5778343
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	5778343	<2.0	2.0	5778343
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	5778343	<10	10	5778343
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	5778343	<5.0	5.0	5778343
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343

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

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

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

Maxxam ID		HZJ733			HZJ733		
Sampling Date		2018/10/10 09:35			2018/10/10 09:35		
COC Number		686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK10**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK10 Lab-Dup**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
Tetrachloroethylene	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
Toluene	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
1,1,1-Trichloroethane	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
1,1,2-Trichloroethane	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
Trichloroethylene	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	5778343	<0.50	0.50	5778343
Vinyl Chloride	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
p+m-Xylene	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
o-Xylene	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
Total Xylenes	ug/L	<0.20	0.20	5778343	<0.20	0.20	5778343
F1 (C6-C10)	ug/L	<25	25	5778343	<25	25	5778343
F1 (C6-C10) - BTEX	ug/L	<25	25	5778343	<25	25	5778343
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	5780921			
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	5780921			
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	5780921			
Reached Baseline at C50	ug/L	Yes		5780921			
Surrogate Recovery (%)							
o-Terphenyl	%	97		5780921			
4-Bromofluorobenzene	%	96		5778343	96		5778343
D4-1,2-Dichloroethane	%	99		5778343	99		5778343
D8-Toluene	%	100		5778343	100		5778343

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

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

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

Maxxam ID		HZJ734		HZJ735	HZJ736		
Sampling Date		2018/10/10 10:26		2018/10/10 11:04	2018/10/10 11:39		
COC Number		686536-01-01		686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK11**	**QC Batch**	**WG-160900764-20181010-JK12**	**WG-160900764-20181010-JK13**	**RDL**	**QC Batch**
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	5777305	<0.50	<0.50	0.50	5777305
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	5778343	<10	<10	10	5778343
Benzene	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
Bromodichloromethane	ug/L	<0.50	5778343	<0.50	11	0.50	5778343
Bromoform	ug/L	<1.0	5778343	<1.0	4.3	1.0	5778343
Bromomethane	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
Carbon Tetrachloride	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
Chlorobenzene	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
Chloroform	ug/L	<0.20	5778343	<0.20	13	0.20	5778343
Dibromochloromethane	ug/L	<0.50	5778343	<0.50	12	0.50	5778343
1,2-Dichlorobenzene	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
1,3-Dichlorobenzene	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
1,4-Dichlorobenzene	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	5778343	<1.0	<1.0	1.0	5778343
1,1-Dichloroethane	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
1,2-Dichloroethane	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
1,1-Dichloroethylene	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
cis-1,2-Dichloroethylene	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
trans-1,2-Dichloroethylene	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
1,2-Dichloropropane	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
cis-1,3-Dichloropropene	ug/L	<0.30	5778343	<0.30	<0.30	0.30	5778343
trans-1,3-Dichloropropene	ug/L	<0.40	5778343	<0.40	<0.40	0.40	5778343
Ethylbenzene	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
Ethylene Dibromide	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
Hexane	ug/L	<1.0	5778343	<1.0	<1.0	1.0	5778343
Methylene Chloride(Dichloromethane)	ug/L	<2.0	5778343	<2.0	<2.0	2.0	5778343
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	5778343	<10	<10	10	5778343
Methyl Isobutyl Ketone	ug/L	<5.0	5778343	<5.0	<5.0	5.0	5778343
Methyl t-butyl ether (MTBE)	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

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

Maxxam ID		HZJ734		HZJ735	HZJ736		
Sampling Date		2018/10/10 10:26		2018/10/10 11:04	2018/10/10 11:39		
COC Number		686536-01-01		686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK11**	**QC Batch**	**WG-160900764-20181010-JK12**	**WG-160900764-20181010-JK13**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
1,1,1,2-Tetrachloroethane	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
1,1,2,2-Tetrachloroethane	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
Tetrachloroethylene	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
Toluene	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
1,1,1-Trichloroethane	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
1,1,2-Trichloroethane	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
Trichloroethylene	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	5778343	<0.50	<0.50	0.50	5778343
Vinyl Chloride	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
p+m-Xylene	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
o-Xylene	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
Total Xylenes	ug/L	<0.20	5778343	<0.20	<0.20	0.20	5778343
F1 (C6-C10)	ug/L	<25	5778343	<25	<25	25	5778343
F1 (C6-C10) - BTEX	ug/L	<25	5778343	<25	<25	25	5778343
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	5780921	<100	<100	100	5783772
F3 (C16-C34 Hydrocarbons)	ug/L	<200	5780921	<200	<200	200	5783772
F4 (C34-C50 Hydrocarbons)	ug/L	<200	5780921	<200	<200	200	5783772
Reached Baseline at C50	ug/L	Yes	5780921	Yes	Yes		5783772
Surrogate Recovery (%)							
o-Terphenyl	%	97	5780921	95	95		5783772
4-Bromofluorobenzene	%	97	5778343	97	95		5778343
D4-1,2-Dichloroethane	%	100	5778343	100	100		5778343
D8-Toluene	%	98	5778343	98	99		5778343

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

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

Maxxam ID		HZJ737	HZJ738	HZJ739		
Sampling Date		2018/10/10 13:14	2018/10/10 13:58	2018/10/10 14:58		
COC Number		686536-01-01	686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK14**	**WG-160900764-20181010-JK15**	**WG-160900764-20181010-JK16**	**RDL**	**QC Batch**
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	5777305
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	5778343
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	5778343
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5778343
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	5778343
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	5778343
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	5778343
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	5778343
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	5778343
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5778343
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5778343
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5778343
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5778343
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	5778343
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5778343
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5778343
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5778343
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5778343
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5778343
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	5778343
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	5778343
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	5778343
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	5778343
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	5778343
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	5778343
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	5778343
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	5778343
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	5778343
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	5778343

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

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

Maxxam ID		HZJ737	HZJ738	HZJ739		
Sampling Date		2018/10/10 13:14	2018/10/10 13:58	2018/10/10 14:58		
COC Number		686536-01-01	686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK14**	**WG-160900764-20181010-JK15**	**WG-160900764-20181010-JK16**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	5778343
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5778343
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5778343
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5778343
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	5778343
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5778343
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5778343
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5778343
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	5778343
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	5778343
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5778343
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5778343
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	5778343
F1 (C6-C10)	ug/L	<25	<25	<25	25	5778343
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	5778343
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	5780921
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	5780921
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	5780921
Reached Baseline at C50	ug/L	Yes	Yes	Yes		5780921
Surrogate Recovery (%)						
o-Terphenyl	%	99	95	97		5780921
4-Bromofluorobenzene	%	95	95	95		5778343
D4-1,2-Dichloroethane	%	100	101	101		5778343
D8-Toluene	%	100	100	99		5778343

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

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

Maxxam ID		HZJ740	HZJ741		
Sampling Date		2018/10/10 15:47	2018/10/10 16:46		
COC Number		686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK17**	**WG-160900764-20181010-JK18**	**RDL**	**QC Batch**
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	5777305
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	5778343
Benzene	ug/L	<0.20	<0.20	0.20	5778343
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	5778343
Bromoform	ug/L	<1.0	<1.0	1.0	5778343
Bromomethane	ug/L	<0.50	<0.50	0.50	5778343
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	5778343
Chlorobenzene	ug/L	<0.20	<0.20	0.20	5778343
Chloroform	ug/L	0.41	3.9	0.20	5778343
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	5778343
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5778343
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5778343
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5778343
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	5778343
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	5778343
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	5778343
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	5778343
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5778343
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5778343
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	5778343
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	5778343
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	5778343
Ethylbenzene	ug/L	<0.20	<0.20	0.20	5778343
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	5778343
Hexane	ug/L	<1.0	<1.0	1.0	5778343
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	5778343
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	5778343
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	5778343
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	5778343

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

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

Maxxam ID		HZJ740	HZJ741		
Sampling Date		2018/10/10 15:47	2018/10/10 16:46		
COC Number		686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK17**	**WG-160900764-20181010-JK18**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	0.50	5778343
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5778343
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5778343
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	5778343
Toluene	ug/L	<0.20	<0.20	0.20	5778343
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	5778343
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	5778343
Trichloroethylene	ug/L	<0.20	<0.20	0.20	5778343
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	5778343
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	5778343
p+m-Xylene	ug/L	<0.20	<0.20	0.20	5778343
o-Xylene	ug/L	<0.20	<0.20	0.20	5778343
Total Xylenes	ug/L	<0.20	<0.20	0.20	5778343
F1 (C6-C10)	ug/L	<25	<25	25	5778343
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	5778343
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	5780921
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	5780921
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	5780921
Reached Baseline at C50	ug/L	Yes	Yes		5780921
Surrogate Recovery (%)					
o-Terphenyl	%	93	94		5780921
4-Bromofluorobenzene	%	97	95		5778343
D4-1,2-Dichloroethane	%	101	102		5778343
D8-Toluene	%	98	98		5778343

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZJ733	HZJ734			HZJ734		
Sampling Date		2018/10/10 09:35	2018/10/10 10:26			2018/10/10 10:26		
COC Number		686536-01-01	686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK10**	**WG-160900764-20181010-JK11**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK11 Lab-Dup**	**RDL**	**QC Batch**
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	0.1	5783171	<0.1	0.1	5783171
1-Methylnaphthalene	ug/L	<0.2	<0.2	0.2	5783171	<0.2	0.2	5783171
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	0.2	5783171	<0.2	0.2	5783171
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	0.2	5783171	<0.2	0.2	5783171
2,4-Dichlorophenol	ug/L	<0.1	<0.1	0.1	5783171	<0.1	0.1	5783171
2,4-Dimethylphenol	ug/L	<0.5	<0.5	0.5	5783171	<0.5	0.5	5783171
2,4-Dinitrophenol	ug/L	<2	<2	2	5783171	<2	2	5783171
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	0.3	5783171	<0.3	0.3	5783171
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	0.3	5783171	<0.3	0.3	5783171
2-Chlorophenol	ug/L	<0.1	<0.1	0.1	5783171	<0.1	0.1	5783171
2-Methylnaphthalene	ug/L	<0.2	<0.2	0.2	5783171	<0.2	0.2	5783171
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	0.5	5783171	<0.5	0.5	5783171
Acenaphthene	ug/L	<0.2	<0.2	0.2	5783171	<0.2	0.2	5783171
Acenaphthylene	ug/L	<0.2	<0.2	0.2	5783171	<0.2	0.2	5783171
Anthracene	ug/L	<0.05	<0.05	0.05	5783171	<0.05	0.05	5783171
Benzo(a)anthracene	ug/L	<0.05	<0.05	0.05	5783171	<0.05	0.05	5783171
Benzo(a)pyrene	ug/L	<0.01	<0.01	0.01	5783171	<0.01	0.01	5783171
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	0.05	5783171	<0.05	0.05	5783171
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	0.05	5783171	<0.05	0.05	5783171
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	0.05	5783171	<0.05	0.05	5783171
Biphenyl	ug/L	<0.1	<0.1	0.1	5783171	<0.1	0.1	5783171
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	0.5	5783171	<0.5	0.5	5783171
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	0.5	5783171	<0.5	0.5	5783171
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	1	5783171	<1	1	5783171
Chrysene	ug/L	<0.05	<0.05	0.05	5783171	<0.05	0.05	5783171
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	0.1	5783171	<0.1	0.1	5783171
Diethyl phthalate	ug/L	<0.1	<0.1	0.1	5783171	<0.1	0.1	5783171
Dimethyl phthalate	ug/L	<0.1	<0.1	0.1	5783171	<0.1	0.1	5783171
Fluoranthene	ug/L	<0.2	<0.2	0.2	5783171	<0.2	0.2	5783171
Fluorene	ug/L	<0.2	<0.2	0.2	5783171	<0.2	0.2	5783171

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

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZJ733	HZJ734			HZJ734		
Sampling Date		2018/10/10 09:35	2018/10/10 10:26			2018/10/10 10:26		
COC Number		686536-01-01	686536-01-01			686536-01-01		
	UNITS	**WG-160900764-20181010-JK10**	**WG-160900764-20181010-JK11**	**RDL**	**QC Batch**	**WG-160900764-20181010-JK11 Lab-Dup**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	0.1	5783171	<0.1	0.1	5783171
Naphthalene	ug/L	<0.2	<0.2	0.2	5783171	<0.2	0.2	5783171
p-Chloroaniline	ug/L	<1	<1	1	5783171	<1	1	5783171
Pentachlorophenol	ug/L	<0.1	<0.1	0.1	5783171	<0.1	0.1	5783171
Phenanthrene	ug/L	<0.1	<0.1	0.1	5783171	<0.1	0.1	5783171
Phenol	ug/L	<0.5	<0.5	0.5	5783171	<0.5	0.5	5783171
Pyrene	ug/L	<0.05	<0.05	0.05	5783171	<0.05	0.05	5783171
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	0.28	5777304			
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	64	82		5783171	81		5783171
2-Fluorobiphenyl	%	33 (1)	66		5783171	60		5783171
D14-Terphenyl (FS)	%	90	91		5783171	89		5783171
D5-Nitrobenzene	%	36 (1)	75		5783171	66		5783171

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.

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZJ735	HZJ736	HZJ737	HZJ738		
Sampling Date		2018/10/10 11:04	2018/10/10 11:39	2018/10/10 13:14	2018/10/10 13:58		
COC Number		686536-01-01	686536-01-01	686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK12**	**WG-160900764-20181010-JK13**	**WG-160900764-20181010-JK14**	**WG-160900764-20181010-JK15**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5783171
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5783171
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5783171
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5783171
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5783171
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5783171
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	5783171
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5783171
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5783171
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5783171
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5783171
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5783171
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5783171
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5783171
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5783171
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5783171
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	5783171
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5783171
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5783171
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5783171
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5783171
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5783171
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5783171
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	1	5783171
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5783171
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5783171
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5783171
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5783171
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5783171
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5783171

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZJ735	HZJ736	HZJ737	HZJ738		
Sampling Date		2018/10/10 11:04	2018/10/10 11:39	2018/10/10 13:14	2018/10/10 13:58		
COC Number		686536-01-01	686536-01-01	686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK12**	**WG-160900764-20181010-JK13**	**WG-160900764-20181010-JK14**	**WG-160900764-20181010-JK15**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5783171
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5783171
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	5783171
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5783171
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5783171
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5783171
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5783171
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	5777304
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	78	95	69	78		5783171
2-Fluorobiphenyl	%	52	36 (1)	45 (1)	56		5783171
D14-Terphenyl (FS)	%	97	96	98	99		5783171
D5-Nitrobenzene	%	53	36 (1)	45 (1)	57		5783171

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.

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZJ739	HZJ740	HZJ741		
Sampling Date		2018/10/10 14:58	2018/10/10 15:47	2018/10/10 16:46		
COC Number		686536-01-01	686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK16**	**WG-160900764-20181010-JK17**	**WG-160900764-20181010-JK18**	**RDL**	**QC Batch**
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	5783171
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5783171
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	5783171
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	5783171
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5783171
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	5783171
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	5783171
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	5783171
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	5783171
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5783171
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5783171
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	5783171
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	5783171
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	5783171
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	5783171
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	5783171
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	5783171
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	5783171
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	5783171
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	5783171
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	5783171
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	5783171
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	5783171
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	5783171
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	5783171
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	5783171
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	5783171
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	5783171
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	5783171
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	5783171

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZJ739	HZJ740	HZJ741		
Sampling Date		2018/10/10 14:58	2018/10/10 15:47	2018/10/10 16:46		
COC Number		686536-01-01	686536-01-01	686536-01-01		
	UNITS	**WG-160900764-20181010-JK16**	**WG-160900764-20181010-JK17**	**WG-160900764-20181010-JK18**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	0.1	5783171
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5783171
p-Chloroaniline	ug/L	<1	<1	<1	1	5783171
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5783171
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	5783171
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	5783171
Pyrene	ug/L	<0.05	<0.05	<0.05	0.05	5783171
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	0.28	5777304
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	68	64	71		5783171
2-Fluorobiphenyl	%	48 (1)	53	61		5783171
D14-Terphenyl (FS)	%	96	97	93		5783171
D5-Nitrobenzene	%	51	53	64		5783171

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.

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZJ733
Sample ID: WG-160900764-20181010-JK10
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5777304	N/A	2018/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5783171	2018/10/15	2018/10/15	Milijana Avramovic
Acidity (CaCO3) in water	MT	5792146	N/A	2018/10/19	Brent Boudreau
Alkalinity	AT	5778572	N/A	2018/10/12	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5777770	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5777305	N/A	2018/10/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	5778554	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5778577	N/A	2018/10/12	Surinder Rai
Chromium (VI) in Water	IC	5779009	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783527	N/A	2018/10/15	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5779338	N/A	2018/10/13	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780921	2018/10/12	2018/10/15	Dorina Popa
Fluoride	ISE	5778569	2018/10/11	2018/10/12	Surinder Rai
Hardness (calculated as CaCO3)		5777516	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785671	2018/10/16	2018/10/17	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5780261	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5778185	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5778186	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5778571	N/A	2018/10/11	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5780945	N/A	2018/10/16	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5779054	N/A	2018/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/13	Svitlana Shaula
pH	AT	5778580	N/A	2018/10/12	Surinder Rai
Orthophosphate	KONE	5778568	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5778559	N/A	2018/10/12	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5777517	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783158	2018/10/15	2018/10/16	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5780456	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5780504	2018/10/13	2018/10/15	Mandeep Kaur
Turbidity	AT	5778368	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5778343	N/A	2018/10/15	Yang (Philip) Yu

Maxxam ID: HZJ733 Dup
Sample ID: WG-160900764-20181010-JK10
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	5780945	N/A	2018/10/16	Chandra Nandlal
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5778343	N/A	2018/10/15	Yang (Philip) Yu

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZJ734
Sample ID: WG-160900764-20181010-JK11
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5777304	N/A	2018/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5783171	2018/10/15	2018/10/15	Milijana Avramovic
Acidity (CaCO3) in water	MT	5792146	N/A	2018/10/19	Brent Boudreau
Alkalinity	AT	5778572	N/A	2018/10/12	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5777770	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5777305	N/A	2018/10/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	5778554	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5778577	N/A	2018/10/12	Surinder Rai
Chromium (VI) in Water	IC	5779009	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783527	N/A	2018/10/15	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5779338	N/A	2018/10/13	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780921	2018/10/12	2018/10/15	Dorina Popa
Fluoride	ISE	5778569	2018/10/11	2018/10/12	Surinder Rai
Hardness (calculated as CaCO3)		5777516	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785167	2018/10/16	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5780261	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5778185	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5778186	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5778571	N/A	2018/10/11	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5780945	N/A	2018/10/16	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5778641	N/A	2018/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/13	Svitlana Shaula
pH	AT	5778580	N/A	2018/10/12	Surinder Rai
Orthophosphate	KONE	5778568	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5778559	N/A	2018/10/12	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5777517	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783158	2018/10/15	2018/10/16	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5780456	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5780504	2018/10/13	2018/10/15	Mandeep Kaur
Turbidity	AT	5778368	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5778343	N/A	2018/10/15	Yang (Philip) Yu

Maxxam ID: HZJ734 Dup
Sample ID: WG-160900764-20181010-JK11
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	5783171	2018/10/15	2018/10/15	Milijana Avramovic
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/13	Svitlana Shaula

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZJ735
Sample ID: WG-160900764-20181010-JK12
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5777304	N/A	2018/10/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5783171	2018/10/15	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5792146	N/A	2018/10/19	Brent Boudreau
Alkalinity	AT	5778572	N/A	2018/10/12	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5777770	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5777305	N/A	2018/10/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	5778554	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5778577	N/A	2018/10/12	Surinder Rai
Chromium (VI) in Water	IC	5779009	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783527	N/A	2018/10/15	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5778889	N/A	2018/10/14	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5783772	2018/10/15	2018/10/16	Zhiyue (Frank) Zhu
Fluoride	ISE	5778569	2018/10/11	2018/10/12	Surinder Rai
Hardness (calculated as CaCO3)		5777516	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785167	2018/10/16	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5780261	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5778185	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5778186	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5778571	N/A	2018/10/11	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5780567	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5779054	N/A	2018/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/14	Svitlana Shaula
pH	AT	5778580	N/A	2018/10/12	Surinder Rai
Orthophosphate	KONE	5778568	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5778559	N/A	2018/10/12	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5777517	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783158	2018/10/15	2018/10/16	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5780456	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5780504	2018/10/13	2018/10/15	Mandeep Kaur
Turbidity	AT	5778368	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5778343	N/A	2018/10/15	Yang (Philip) Yu

Maxxam ID: HZJ736
Sample ID: WG-160900764-20181010-JK13
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5777304	N/A	2018/10/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5783171	2018/10/15	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5792146	N/A	2018/10/19	Brent Boudreau
Alkalinity	AT	5778572	N/A	2018/10/12	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5777770	N/A	2018/10/15	Automated Statchk

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZJ736
Sample ID: WG-160900764-20181010-JK13
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	5777305	N/A	2018/10/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	5778554	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5778577	N/A	2018/10/12	Surinder Rai
Chromium (VI) in Water	IC	5779009	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5785296	N/A	2018/10/16	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5779338	N/A	2018/10/13	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5783772	2018/10/15	2018/10/16	Zhiyue (Frank) Zhu
Fluoride	ISE	5778569	2018/10/11	2018/10/12	Surinder Rai
Hardness (calculated as CaCO3)		5777516	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785167	2018/10/16	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5780261	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5778185	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5778186	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5778571	N/A	2018/10/11	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5780945	N/A	2018/10/16	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5779054	N/A	2018/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/14	Svitlana Shaula
pH	AT	5778580	N/A	2018/10/12	Surinder Rai
Orthophosphate	KONE	5778568	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5778559	N/A	2018/10/12	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5777517	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783158	2018/10/15	2018/10/16	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5780456	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5780504	2018/10/13	2018/10/15	Mandeep Kaur
Turbidity	AT	5778368	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5778343	N/A	2018/10/15	Yang (Philip) Yu

Maxxam ID: HZJ736 Dup
Sample ID: WG-160900764-20181010-JK13
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	5779009	N/A	2018/10/16	Lang Le

Maxxam ID: HZJ737
Sample ID: WG-160900764-20181010-JK14
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5777304	N/A	2018/10/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5783171	2018/10/15	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5792146	N/A	2018/10/19	Brent Boudreau

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZJ737
Sample ID: WG-160900764-20181010-JK14
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	5778572	N/A	2018/10/12	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5777770	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5777305	N/A	2018/10/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	5778554	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5778577	N/A	2018/10/12	Surinder Rai
Chromium (VI) in Water	IC	5779009	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783527	N/A	2018/10/15	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5779338	N/A	2018/10/13	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780921	2018/10/12	2018/10/15	Dorina Popa
Fluoride	ISE	5778569	2018/10/11	2018/10/12	Surinder Rai
Hardness (calculated as CaCO3)		5777516	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785167	2018/10/16	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5780261	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5778185	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5778186	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5778571	N/A	2018/10/11	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5780945	N/A	2018/10/16	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5778641	N/A	2018/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/14	Svitlana Shaula
pH	AT	5778580	N/A	2018/10/12	Surinder Rai
Orthophosphate	KONE	5778568	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5778559	N/A	2018/10/12	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5777517	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783158	2018/10/15	2018/10/16	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5780456	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5780504	2018/10/13	2018/10/15	Mandeep Kaur
Turbidity	AT	5778368	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5778343	N/A	2018/10/15	Yang (Philip) Yu

Maxxam ID: HZJ738
Sample ID: WG-160900764-20181010-JK15
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5777304	N/A	2018/10/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5783171	2018/10/15	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5792146	N/A	2018/10/19	Brent Boudreau
Alkalinity	AT	5779012	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5777770	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5777305	N/A	2018/10/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	5779098	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5779036	N/A	2018/10/13	Surinder Rai

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZJ738
Sample ID: WG-160900764-20181010-JK15
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	5779009	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783527	N/A	2018/10/15	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5778889	N/A	2018/10/14	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780921	2018/10/12	2018/10/15	Dorina Popa
Fluoride	ISE	5779039	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5777516	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785671	2018/10/16	2018/10/17	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5780261	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5778185	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5778186	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5778571	N/A	2018/10/11	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5780945	N/A	2018/10/16	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5779054	N/A	2018/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/14	Svitlana Shaula
pH	AT	5779042	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5779119	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5779107	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5777517	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783158	2018/10/15	2018/10/16	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5780456	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5780504	2018/10/13	2018/10/15	Mandeep Kaur
Turbidity	AT	5778368	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5778343	N/A	2018/10/15	Yang (Philip) Yu

Maxxam ID: HZJ738 Dup
Sample ID: WG-160900764-20181010-JK15
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5779054	N/A	2018/10/13	Chandra Nandlal
Total Organic Carbon (TOC)	TOCV/NDIR	5780456	N/A	2018/10/14	Nimarta Singh

Maxxam ID: HZJ739
Sample ID: WG-160900764-20181010-JK16
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5777304	N/A	2018/10/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5783171	2018/10/15	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5792146	N/A	2018/10/19	Brent Boudreau
Alkalinity	AT	5779012	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5777770	N/A	2018/10/15	Automated Statchk

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZJ739
Sample ID: WG-160900764-20181010-JK16
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	5777305	N/A	2018/10/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	5779098	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5779036	N/A	2018/10/13	Surinder Rai
Chromium (VI) in Water	IC	5779009	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783527	N/A	2018/10/15	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5779338	N/A	2018/10/13	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780921	2018/10/12	2018/10/15	Dorina Popa
Fluoride	ISE	5779039	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5777516	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785671	2018/10/16	2018/10/17	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5780261	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5778185	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5778186	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5778571	N/A	2018/10/11	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5780567	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5779054	N/A	2018/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/14	Svitlana Shaula
pH	AT	5779042	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5779119	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5779107	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5777517	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783158	2018/10/15	2018/10/16	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5780456	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5780504	2018/10/13	2018/10/15	Mandeep Kaur
Turbidity	AT	5778368	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5778343	N/A	2018/10/15	Yang (Philip) Yu

Maxxam ID: HZJ739 Dup
Sample ID: WG-160900764-20181010-JK16
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	5780504	2018/10/13	2018/10/15	Mandeep Kaur

Maxxam ID: HZJ740
Sample ID: WG-160900764-20181010-JK17
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5777304	N/A	2018/10/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5783171	2018/10/15	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5795207	N/A	2018/10/22	Brent Boudreau

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZJ740
Sample ID: WG-160900764-20181010-JK17
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	5779012	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5777770	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5777305	N/A	2018/10/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	5779098	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5779036	N/A	2018/10/13	Surinder Rai
Chromium (VI) in Water	IC	5779009	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	5779338	N/A	2018/10/13	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780921	2018/10/12	2018/10/15	Dorina Popa
Fluoride	ISE	5779039	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5777516	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785671	2018/10/16	2018/10/17	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5780261	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5778185	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5778186	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5778571	N/A	2018/10/11	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5780945	N/A	2018/10/16	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5779054	N/A	2018/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/14	Svitlana Shaula
pH	AT	5779042	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5779119	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5779107	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5777517	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783158	2018/10/15	2018/10/16	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5780456	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5780504	2018/10/13	2018/10/15	Mandeep Kaur
Turbidity	AT	5778368	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5778343	N/A	2018/10/15	Yang (Philip) Yu

Maxxam ID: HZJ740 Dup
Sample ID: WG-160900764-20181010-JK17
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	5795207	N/A	2018/10/22	Brent Boudreau
Alkalinity	AT	5779012	N/A	2018/10/13	Surinder Rai
Conductivity	AT	5779036	N/A	2018/10/13	Surinder Rai
Fluoride	ISE	5779039	2018/10/11	2018/10/13	Surinder Rai
Metals Analysis by ICPMS (as received)	ICP/MS	5780261	N/A	2018/10/15	Arefa Dabhad
pH	AT	5779042	N/A	2018/10/13	Surinder Rai

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

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

TEST SUMMARY

Maxxam ID: HZJ741
Sample ID: WG-160900764-20181010-JK18
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5777304	N/A	2018/10/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5783171	2018/10/15	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5795207	N/A	2018/10/22	Brent Boudreau
Alkalinity	AT	5779012	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5777770	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5777305	N/A	2018/10/16	Automated Statchk
Chloride by Automated Colourimetry	KONE	5779098	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5779036	N/A	2018/10/13	Surinder Rai
Chromium (VI) in Water	IC	5779009	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783527	N/A	2018/10/15	Louise Harding
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5778889	N/A	2018/10/14	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780921	2018/10/12	2018/10/15	Dorina Popa
Fluoride	ISE	5779039	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5777516	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785167	2018/10/16	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5780261	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5778185	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5778186	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5778571	N/A	2018/10/11	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5780945	N/A	2018/10/16	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5779054	N/A	2018/10/13	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/14	Svitlana Shaula
pH	AT	5779042	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5779119	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5779107	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5777517	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783158	2018/10/15	2018/10/16	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5780456	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5780504	2018/10/13	2018/10/15	Mandeep Kaur
Turbidity	AT	5778368	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5778343	N/A	2018/10/15	Yang (Philip) Yu

Maxxam ID: HZJ741 Dup
Sample ID: WG-160900764-20181010-JK18
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	5779098	N/A	2018/10/12	Deonarine Ramnarine
Orthophosphate	KONE	5779119	N/A	2018/10/12	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	5779107	N/A	2018/10/12	Alina Dobreanu

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GENERAL COMMENTS

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

Package 1	10.3°C
Package 2	9.0°C
Package 3	4.0°C
Package 4	2.3°C
Package 5	5.3°C
Package 6	4.0°C
Package 7	5.3°C
Package 8	6.3°C
Package 9	7.3°C
Package 10	9.7°C
Package 11	9.0°C
Package 12	9.3°C
Package 13	7.3°C
Package 14	6.3°C
Package 15	6.0°C
Package 16	9.0°C
Package 17	11.0°C

Sample HZJ734 [WG-160900764-20181010-JK11] : TOC< DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.
Hexavalent Chromium > Total/Dissolved Chromium: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample HZJ735 [WG-160900764-20181010-JK12] : TOC< DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample HZJ736 [WG-160900764-20181010-JK13] : TOC< DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample HZJ737 [WG-160900764-20181010-JK14] : TOC< DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.
Hexavalent Chromium > Total/Dissolved Chromium: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample HZJ739 [WG-160900764-20181010-JK16] : TOC< DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.
Hexavalent Chromium > Total/Dissolved Chromium: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample HZJ741 [WG-160900764-20181010-JK18] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5778343	4-Bromofluorobenzene	2018/10/15	98	70 - 130	100	70 - 130	125	%				
5778343	D4-1,2-Dichloroethane	2018/10/15	99	70 - 130	99	70 - 130	97	%				
5778343	D8-Toluene	2018/10/15	102	70 - 130	100	70 - 130	101	%				
5780921	o-Terphenyl	2018/10/15	100	60 - 130	102	60 - 130	95	%				
5782043	Decachlorobiphenyl	2018/10/13	53 (2)	60 - 130	64	60 - 130	64	%				
5783171	2,4,6-Tribromophenol	2018/10/15	95	50 - 130	91	50 - 130	79	%				
5783171	2-Fluorobiphenyl	2018/10/15	56	50 - 130	78	50 - 130	68	%				
5783171	D14-Terphenyl (FS)	2018/10/15	93	50 - 130	98	50 - 130	95	%				
5783171	D5-Nitrobenzene	2018/10/15	56	50 - 130	80	50 - 130	76	%				
5783772	o-Terphenyl	2018/10/16	99	60 - 130	98	60 - 130	95	%				
5778343	1,1,1,2-Tetrachloroethane	2018/10/15	101	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5778343	1,1,1-Trichloroethane	2018/10/15	102	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5778343	1,1,2,2-Tetrachloroethane	2018/10/15	97	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
5778343	1,1,2-Trichloroethane	2018/10/15	102	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5778343	1,1-Dichloroethane	2018/10/15	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5778343	1,1-Dichloroethylene	2018/10/15	100	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5778343	1,2-Dichlorobenzene	2018/10/15	100	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5778343	1,2-Dichloroethane	2018/10/15	98	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
5778343	1,2-Dichloropropane	2018/10/15	99	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5778343	1,3-Dichlorobenzene	2018/10/15	103	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5778343	1,4-Dichlorobenzene	2018/10/15	103	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5778343	Acetone (2-Propanone)	2018/10/15	98	60 - 140	101	60 - 140	<10	ug/L	NC	30		
5778343	Benzene	2018/10/15	99	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5778343	Bromodichloromethane	2018/10/15	98	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5778343	Bromoform	2018/10/15	94	70 - 130	86	70 - 130	<1.0	ug/L	NC	30		
5778343	Bromomethane	2018/10/15	102	60 - 140	98	60 - 140	<0.50	ug/L	NC	30		
5778343	Carbon Tetrachloride	2018/10/15	99	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5778343	Chlorobenzene	2018/10/15	100	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5778343	Chloroform	2018/10/15	100	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5778343	cis-1,2-Dichloroethylene	2018/10/15	100	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5778343	cis-1,3-Dichloropropene	2018/10/15	95	70 - 130	90	70 - 130	<0.30	ug/L	NC	30		

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Report Date: 2018/10/22

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5778343	Dibromochloromethane	2018/10/15	97	70 - 130	90	70 - 130	<0.50	ug/L	NC	30		
5778343	Dichlorodifluoromethane (FREON 12)	2018/10/15	97	60 - 140	98	60 - 140	<1.0	ug/L	NC	30		
5778343	Ethylbenzene	2018/10/15	100	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5778343	Ethylene Dibromide	2018/10/15	99	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
5778343	F1 (C6-C10) - BTEX	2018/10/15					<25	ug/L	NC	30		
5778343	F1 (C6-C10)	2018/10/15	90	60 - 140	95	60 - 140	<25	ug/L	NC	30		
5778343	Hexane	2018/10/15	100	70 - 130	100	70 - 130	<1.0	ug/L	NC	30		
5778343	Methyl Ethyl Ketone (2-Butanone)	2018/10/15	95	60 - 140	93	60 - 140	<10	ug/L	NC	30		
5778343	Methyl Isobutyl Ketone	2018/10/15	88	70 - 130	84	70 - 130	<5.0	ug/L	NC	30		
5778343	Methyl t-butyl ether (MTBE)	2018/10/15	94	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
5778343	Methylene Chloride(Dichloromethane)	2018/10/15	102	70 - 130	100	70 - 130	<2.0	ug/L	NC	30		
5778343	o-Xylene	2018/10/15	97	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
5778343	p+m-Xylene	2018/10/15	97	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
5778343	Styrene	2018/10/15	96	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
5778343	Tetrachloroethylene	2018/10/15	104	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5778343	Toluene	2018/10/15	101	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5778343	Total Xylenes	2018/10/15					<0.20	ug/L	NC	30		
5778343	trans-1,2-Dichloroethylene	2018/10/15	100	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5778343	trans-1,3-Dichloropropene	2018/10/15	102	70 - 130	90	70 - 130	<0.40	ug/L	NC	30		
5778343	Trichloroethylene	2018/10/15	100	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5778343	Trichlorofluoromethane (FREON 11)	2018/10/15	101	70 - 130	102	70 - 130	<0.50	ug/L	NC	30		
5778343	Vinyl Chloride	2018/10/15	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5778368	Turbidity	2018/10/11			101	85 - 115	<0.1	NTU	6.1	20		
5778554	Dissolved Chloride (Cl-)	2018/10/12	100	80 - 120	104	80 - 120	<1.0	mg/L				
5778559	Dissolved Sulphate (SO4)	2018/10/12	NC	75 - 125	100	80 - 120	<1.0	mg/L				
5778568	Orthophosphate (P)	2018/10/15	101	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
5778569	Fluoride (F-)	2018/10/12	100	80 - 120	98	80 - 120	<0.10	mg/L	3.4	20		
5778572	Alkalinity (Total as CaCO3)	2018/10/12			99	85 - 115	<1.0	mg/L				
5778577	Conductivity	2018/10/12			101	85 - 115	<1.0	umho/cm	0	25		
5778580	pH	2018/10/12			101	98 - 103			0.67	N/A		

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Maxxam Job #: B8Q8015
Report Date: 2018/10/22

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5778641	Nitrate (N)	2018/10/13	99	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
5778641	Nitrite (N)	2018/10/13	101	80 - 120	105	80 - 120	<0.010	mg/L	NC	20		
5778889	Dissolved Organic Carbon	2018/10/13	97	80 - 120	101	80 - 120	<0.50	mg/L	0.43	20		
5779009	Chromium (VI)	2018/10/16	103	80 - 120	102	80 - 120	<0.50	ug/L	1.0	20		
5779012	Alkalinity (Total as CaCO3)	2018/10/13			97	85 - 115	<1.0	mg/L	0.73	20		
5779036	Conductivity	2018/10/13			101	85 - 115	<1.0	umho/cm	0.56	25		
5779039	Fluoride (F-)	2018/10/13	97	80 - 120	95	80 - 120	<0.10	mg/L	NC	20		
5779042	pH	2018/10/13			101	98 - 103			0.48	N/A		
5779054	Nitrate (N)	2018/10/13	99	80 - 120	104	80 - 120	<0.10	mg/L	NC	20		
5779054	Nitrite (N)	2018/10/13	101	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
5779098	Dissolved Chloride (Cl-)	2018/10/12	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.17	20		
5779107	Dissolved Sulphate (SO4)	2018/10/12	106	75 - 125	102	80 - 120	<1.0	mg/L	0.68	20		
5779119	Orthophosphate (P)	2018/10/12	100	75 - 125	100	80 - 120	<0.010	mg/L	24	25		
5779338	Dissolved Organic Carbon	2018/10/13	95	80 - 120	96	80 - 120	<0.50	mg/L	0.19	20		
5780261	. Aluminum (Al)	2018/10/15	109	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20		
5780261	. Antimony (Sb)	2018/10/15	111	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
5780261	. Arsenic (As)	2018/10/15	107	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
5780261	. Barium (Ba)	2018/10/15	105	80 - 120	100	80 - 120	<0.0020	mg/L	0.092	20		
5780261	. Beryllium (Be)	2018/10/15	107	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20		
5780261	. Boron (B)	2018/10/15	108	80 - 120	101	80 - 120	<0.010	mg/L	3.0	20		
5780261	. Cadmium (Cd)	2018/10/15	107	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
5780261	. Calcium (Ca)	2018/10/15	NC	80 - 120	98	80 - 120	<0.20	mg/L	2.4	20		
5780261	. Chromium (Cr)	2018/10/15	101	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20		
5780261	. Cobalt (Co)	2018/10/15	104	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
5780261	. Copper (Cu)	2018/10/15	106	80 - 120	97	80 - 120	<0.0010	mg/L	2.3	20		
5780261	. Iron (Fe)	2018/10/15	108	80 - 120	104	80 - 120	<0.10	mg/L	2.9	20		
5780261	. Lead (Pb)	2018/10/15	100	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
5780261	. Magnesium (Mg)	2018/10/15	110	80 - 120	100	80 - 120	<0.050	mg/L	3.1	20		
5780261	. Manganese (Mn)	2018/10/15	105	80 - 120	102	80 - 120	<0.0020	mg/L	1.2	20		
5780261	. Molybdenum (Mo)	2018/10/15	110	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5780261	. Nickel (Ni)	2018/10/15	100	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
5780261	. Phosphorus (P)	2018/10/15	122 (1)	80 - 120	108	80 - 120	<0.10	mg/L	NC	20		
5780261	. Potassium (K)	2018/10/15	107	80 - 120	100	80 - 120	<0.20	mg/L	4.2	20		
5780261	. Selenium (Se)	2018/10/15	104	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20		
5780261	. Silicon (Si)	2018/10/15	107	80 - 120	100	80 - 120	<0.050	mg/L	2.5	20		
5780261	. Silver (Ag)	2018/10/15	98	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20		
5780261	. Sodium (Na)	2018/10/15	NC	80 - 120	100	80 - 120	<0.10	mg/L	4.6	20		
5780261	. Strontium (Sr)	2018/10/15	103	80 - 120	99	80 - 120	<0.0010	mg/L	2.2	20		
5780261	. Thallium (Tl)	2018/10/15	101	80 - 120	96	80 - 120	<0.000050	mg/L	NC	20		
5780261	. Titanium (Ti)	2018/10/15	110	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
5780261	. Uranium (U)	2018/10/15	105	80 - 120	100	80 - 120	<0.00010	mg/L	4.7	20		
5780261	. Vanadium (V)	2018/10/15	107	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
5780261	. Zinc (Zn)	2018/10/15	102	80 - 120	100	80 - 120	<0.0050	mg/L	1.5	20		
5780261	. Zirconium (Zr)	2018/10/15	114	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
5780456	Total Organic Carbon (TOC)	2018/10/14	97	80 - 120	99	80 - 120	<0.50	mg/L	6.8	20		
5780504	Total Suspended Solids	2018/10/15					<10	mg/L	NC	25	100	85 - 115
5780567	Total Ammonia-N	2018/10/17	94	75 - 125	96	80 - 120	<0.050	mg/L	NC	20		
5780921	F2 (C10-C16 Hydrocarbons)	2018/10/15	99	50 - 130	88	60 - 130	<100	ug/L	NC	30		
5780921	F3 (C16-C34 Hydrocarbons)	2018/10/15	103	50 - 130	97	60 - 130	<200	ug/L	NC	30		
5780921	F4 (C34-C50 Hydrocarbons)	2018/10/15	99	50 - 130	94	60 - 130	<200	ug/L	NC	30		
5780945	Total Ammonia-N	2018/10/16	98	75 - 125	100	80 - 120	<0.050	mg/L	17	20		
5782043	Aroclor 1242	2018/10/13					<0.05	ug/L	NC	30		
5782043	Aroclor 1248	2018/10/13					<0.05	ug/L	NC	30		
5782043	Aroclor 1254	2018/10/13					<0.05	ug/L	NC	30		
5782043	Aroclor 1260	2018/10/13	75	60 - 130	79	60 - 130	<0.05	ug/L	NC	30		
5782043	Total PCB	2018/10/13	75	60 - 130	79	60 - 130	<0.05	ug/L	NC	40		
5783158	Total Dissolved Solids	2018/10/16					<10	mg/L	4.6	25	98	90 - 110
5783171	1,2,4-Trichlorobenzene	2018/10/15	43 (3)	50 - 130	59	50 - 130	<0.1	ug/L	NC	30		
5783171	1-Methylnaphthalene	2018/10/15	63	50 - 130	86	50 - 130	<0.2	ug/L	NC	30		
5783171	2,4,5-Trichlorophenol	2018/10/15	77	50 - 130	96	50 - 130	<0.2	ug/L	NC	30		
5783171	2,4,6-Trichlorophenol	2018/10/15	69	50 - 130	91	50 - 130	<0.2	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5783171	2,4-Dichlorophenol	2018/10/15	56	50 - 130	89	50 - 130	<0.1	ug/L	NC	30		
5783171	2,4-Dimethylphenol	2018/10/15	55	30 - 130	80	30 - 130	<0.5	ug/L	NC	30		
5783171	2,4-Dinitrophenol	2018/10/15	114	30 - 130	100	30 - 130	<2	ug/L	NC	30		
5783171	2,4-Dinitrotoluene	2018/10/15	91	50 - 130	98	50 - 130	<0.3	ug/L	NC	30		
5783171	2,6-Dinitrotoluene	2018/10/15	80	50 - 130	94	50 - 130	<0.3	ug/L	NC	30		
5783171	2-Chlorophenol	2018/10/15	53	50 - 130	75	50 - 130	<0.1	ug/L	NC	30		
5783171	2-Methylnaphthalene	2018/10/15	61	50 - 130	82	50 - 130	<0.2	ug/L	NC	30		
5783171	3,3'-Dichlorobenzidine	2018/10/15	94	30 - 130	101	30 - 130	<0.5	ug/L	NC	30		
5783171	Acenaphthene	2018/10/15	68	50 - 130	91	50 - 130	<0.2	ug/L	NC	30		
5783171	Acenaphthylene	2018/10/15	67	50 - 130	91	50 - 130	<0.2	ug/L	NC	30		
5783171	Anthracene	2018/10/15	85	50 - 130	92	50 - 130	<0.05	ug/L	NC	30		
5783171	Benzo(a)anthracene	2018/10/15	93	50 - 130	103	50 - 130	<0.05	ug/L	NC	30		
5783171	Benzo(a)pyrene	2018/10/15	95	50 - 130	99	50 - 130	<0.01	ug/L	NC	30		
5783171	Benzo(b/j)fluoranthene	2018/10/15	90	50 - 130	99	50 - 130	<0.05	ug/L	NC	30		
5783171	Benzo(g,h,i)perylene	2018/10/15	93	50 - 130	88	50 - 130	<0.05	ug/L	NC	30		
5783171	Benzo(k)fluoranthene	2018/10/15	95	50 - 130	110	50 - 130	<0.05	ug/L	NC	30		
5783171	Biphenyl	2018/10/15	62	50 - 130	87	50 - 130	<0.1	ug/L	NC	30		
5783171	Bis(2-chloroethyl)ether	2018/10/15	50	50 - 130	77	50 - 130	<0.5	ug/L	NC	30		
5783171	Bis(2-chloroisopropyl)ether	2018/10/15	55	50 - 130	80	50 - 130	<0.5	ug/L	NC	30		
5783171	Bis(2-ethylhexyl)phthalate	2018/10/15	94	50 - 130	99	50 - 130	<1	ug/L	NC	30		
5783171	Chrysene	2018/10/15	98	50 - 130	104	50 - 130	<0.05	ug/L	NC	30		
5783171	Dibenz(a,h)anthracene	2018/10/15	97	50 - 130	94	50 - 130	<0.1	ug/L	NC	30		
5783171	Diethyl phthalate	2018/10/15	100	50 - 130	99	50 - 130	<0.1	ug/L	NC	30		
5783171	Dimethyl phthalate	2018/10/15	94	50 - 130	100	50 - 130	<0.1	ug/L	NC	30		
5783171	Fluoranthene	2018/10/15	95	50 - 130	107	50 - 130	<0.2	ug/L	NC	30		
5783171	Fluorene	2018/10/15	83	50 - 130	89	50 - 130	<0.2	ug/L	NC	30		
5783171	Indeno(1,2,3-cd)pyrene	2018/10/15	94	50 - 130	97	50 - 130	<0.1	ug/L	NC	30		
5783171	Naphthalene	2018/10/15	70	50 - 130	80	50 - 130	<0.2	ug/L	NC	30		
5783171	p-Chloroaniline	2018/10/15	67	30 - 130	95	30 - 130	<1	ug/L	NC	30		
5783171	Pentachlorophenol	2018/10/15	102	50 - 130	96	50 - 130	<0.1	ug/L	NC	30		
5783171	Phenanthrene	2018/10/15	86	50 - 130	94	50 - 130	<0.1	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5783171	Phenol	2018/10/15	23 (3)	30 - 130	34	30 - 130	<0.5	ug/L	NC	30		
5783171	Pyrene	2018/10/15	93	50 - 130	108	50 - 130	<0.05	ug/L	NC	30		
5783527	WAD Cyanide (Free)	2018/10/15	101	80 - 120	103	80 - 120	<1	ug/L	NC	20		
5783772	F2 (C10-C16 Hydrocarbons)	2018/10/16	NC	50 - 130	113	60 - 130	<100	ug/L	2.4	30		
5783772	F3 (C16-C34 Hydrocarbons)	2018/10/16	111	50 - 130	109	60 - 130	<200	ug/L	NC	30		
5783772	F4 (C34-C50 Hydrocarbons)	2018/10/16	106	50 - 130	107	60 - 130	<200	ug/L	NC	30		
5785167	Mercury (Hg)	2018/10/16	94	75 - 125	100	80 - 120	<0.1	ug/L	NC	20		
5785257	WAD Cyanide (Free)	2018/10/16	96	80 - 120	101	80 - 120	<1	ug/L	NC	20		
5785296	WAD Cyanide (Free)	2018/10/16	99	80 - 120	100	80 - 120	<1	ug/L	NC	20		
5785671	Mercury (Hg)	2018/10/17	89	75 - 125	92	80 - 120	<0.1	ug/L	NC	20		
5792146	Acidity	2018/10/19	94	80 - 120	106	80 - 120	<5.0	mg/L	NC	25		
5795207	Acidity	2018/10/22	89	80 - 120	100	80 - 120	<5.0	mg/L	3.3	25		

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

(2) The Surrogate recovery was below the acceptance criteria as stipulated by Ontario Regulation 153, however, this recovery is still within Maxxam's performance based criteria. Results reported with surrogate recoveries within this range are still valid but may have an associated low bias.

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

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Site Location: CLARINGTON TS - PRIVATE WELL
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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

Sonja Elavinamannil, Analyst I

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

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ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

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COOLER OBSERVATIONS:

	YES	NO	COOLER ID			
CUSTODY SEAL						
PRESENT	X		TEMP	10 (1)	11 (2)	10 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	8 (1)	9 (2)	10 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	4 (1)	6 (2)	2 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	3 (1)	2 (2)	2 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	6 (1)	4 (2)	4 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	2 (1)	4 (2)	6 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	8 (1)	6 (2)	2 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	6 (1)	7 (2)	6 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	8 (1)	7 (2)	7 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	10 (1)	10 (2)	9 (3)
INTACT	X					
ICE PRESENT	X					

MAXXAM JOB#:

	YES	NO	COOLER ID			
CUSTODY SEAL						
PRESENT	X		TEMP	10 (1)	8 (2)	9 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	8 (1)	9 (2)	11 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	8 (1)	7 (2)	7 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	7 (1)	6 (2)	6 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	5 (1)	7 (2)	6 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	10 (1)	9 (2)	8 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT	X		TEMP	10 (1)	11 (2)	12 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL						
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL						
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL						
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Jwoodward	jennwoodward	2018/10/11	09:00

MICRO

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

STANTEC CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE INFORMATION:		REPORT INFORMATION(if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#9197 Stantec Consulting Ltd	Company Name:	#18379 Stantec Consulting Ltd	Quotation #:	B48218	Maxxam Job #:	Bottle Order #: 686536
Contact Name:	Accounts Payable	Contact Name:	Report - 160900764	Task #:	200.400		
Address:	300 Hagey Blvd Suite 100	Address:		Project #:	160900764		
	Waterloo ON N2L 0A4		ON	Profit Centre:	1609	COC #:	Project Manager:
Phone:	(519) 579-4410 Fax: (519) 579-6733	Phone:	Fax:	Site #:	Clarington TS - Private Well	C#686536-01-01	Ronklin Gracian
Email:	accounts.payable.invoices@stantec.com	Email:	aaron.warkentin@stantec.com, jamie.koch@stantec.co	Sampled By:	JK		

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

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

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

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

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

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

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

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Acidity	Cr (VI) & Free CN	Fluoride & Turbidity	Mercury & TOC	Total Coliforms/ E. coli Background	TDS & TSS	RCAp - Comprehensive (Drinking Water) -No field filter	Reg 153 PCBs	Reg 153 VOCs & F1-F4	SVOCs	# of Bottles	Comments
1		WG-160900764-201810 10-JK10	OCT 10 2018	0935	GW	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19	analyze as received per quote
2		WG-160900764-201810 10-JK11		1026	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		(not reportable)
3		WG-160900764-201810 10-JK12		1104	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
4		WG-160900764-201810 10-JK13		1139	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
5		WG-160900764-201810 10-JK14		1314	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
6		WG-160900764-201810 10-JK15		1358	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7		WG-160900764-201810 10-JK16		1458	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
8		WG-160900764-201810 10-JK17		1547	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
9		WG-160900764-201810 10-JK18		1646	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10		WG-160900764-201810_____			GW													

11-Oct-18 08:30
Ronklin Gracian
B8Q8015
GID ENV-576

REC'D IN PORT HOPE

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
JAMIE KOCH.	18/10/10	2046	Pardeep Pardeep Kharaud	08:35	18/10/11	
				20 18/10/11	12:13	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	REACTR	Present	✓	
		Intact	✓	

* 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

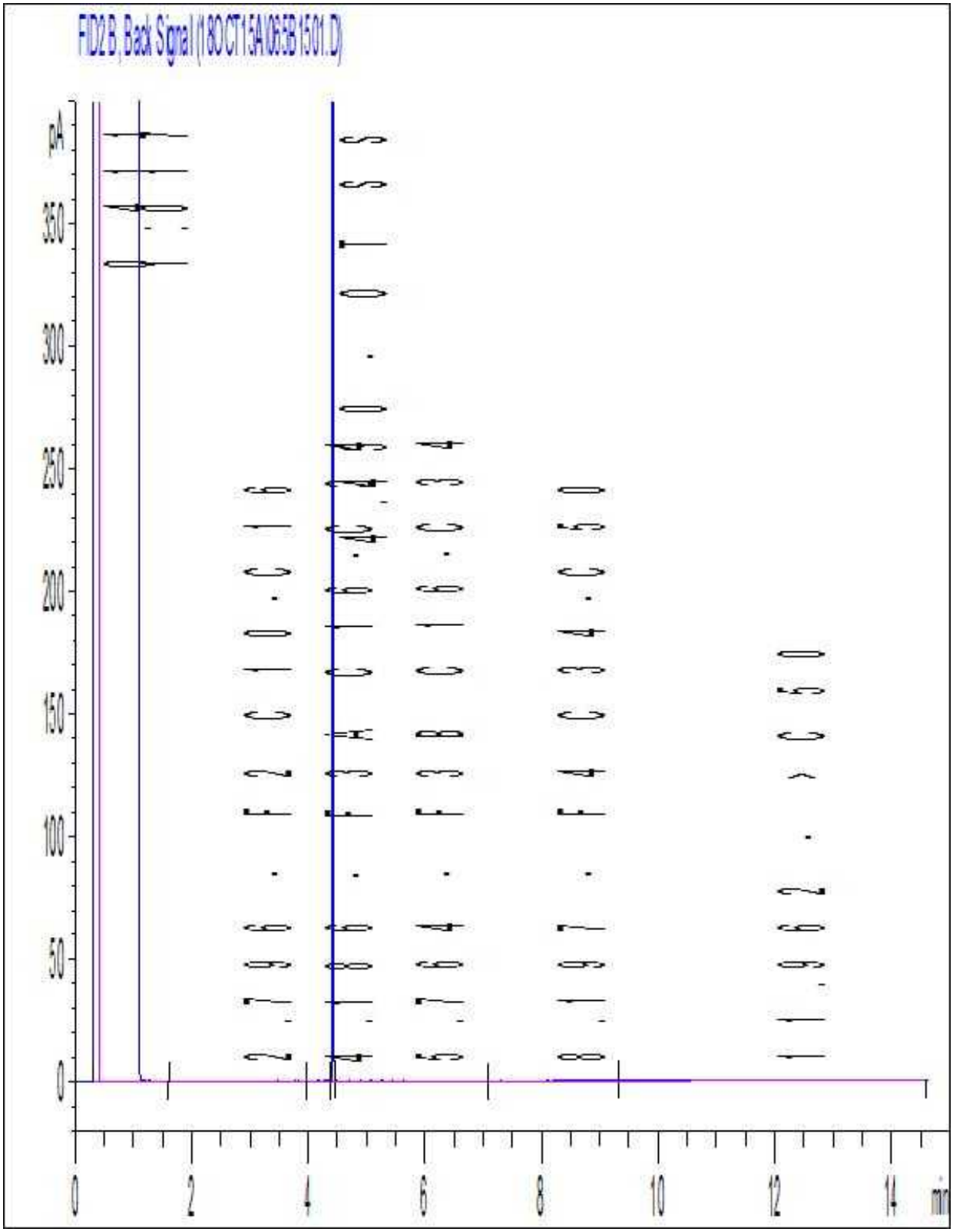
Refer to ACTR MOH31563

Maxxam Analytics International Corporation o/a Maxxam Analytics

Maxxam Job #: B8Q8015
Report Date: 2018/10/22
Maxxam Sample: HZJ733

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181010-JK10

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

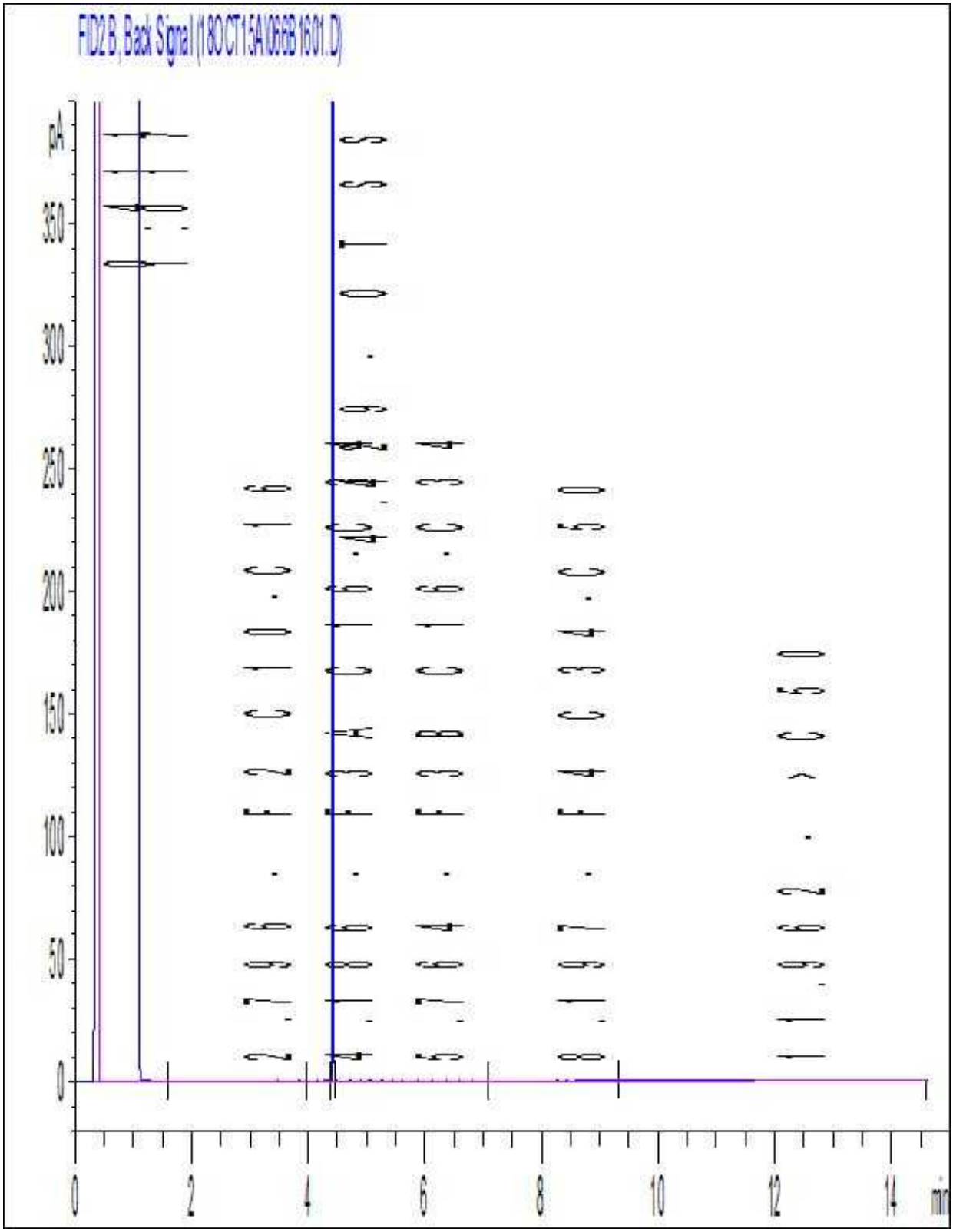


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q8015
Report Date: 2018/10/22
Maxxam Sample: HZJ734

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181010-JK11

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

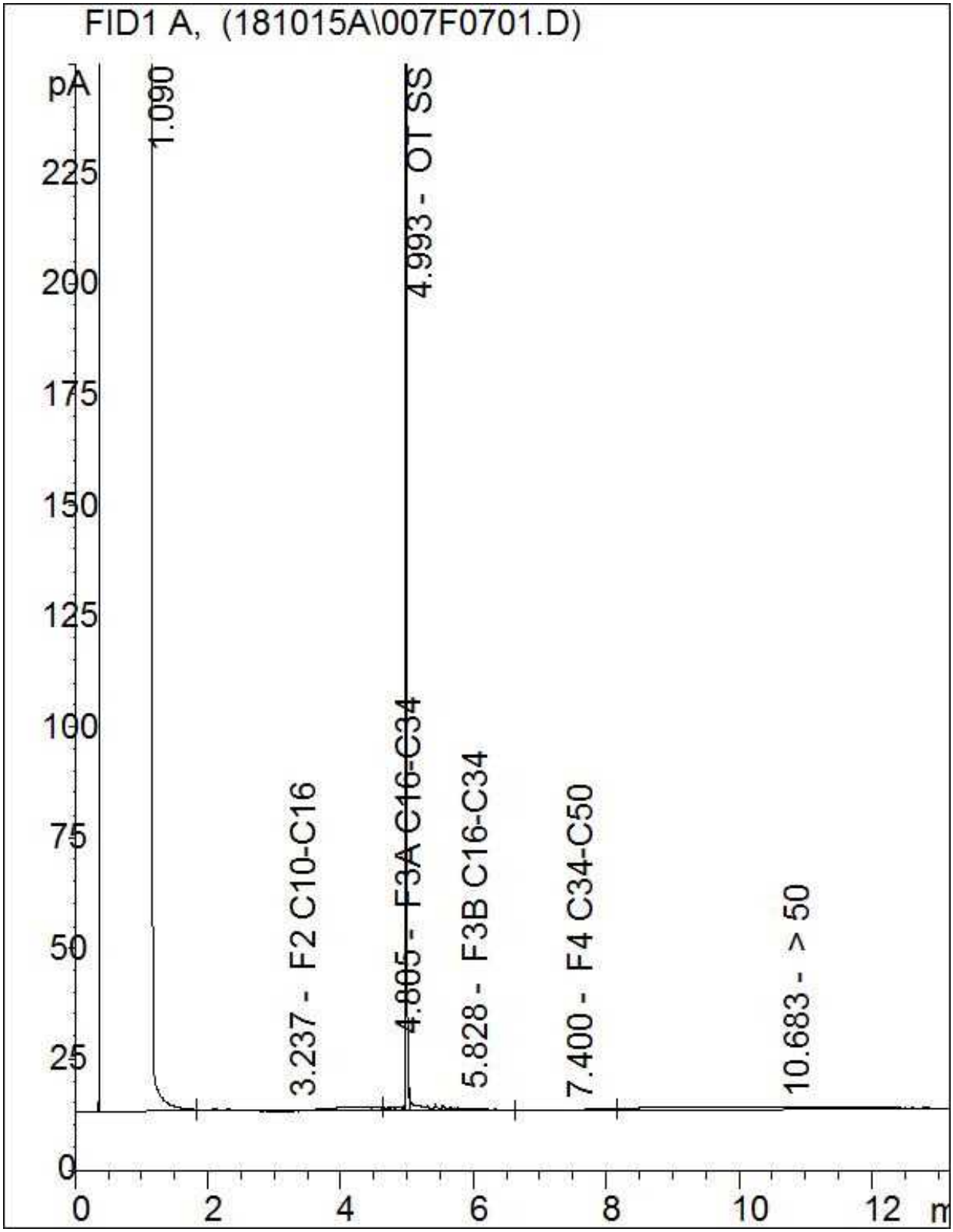


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q8015
Report Date: 2018/10/22
Maxxam Sample: HZJ735

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181010-JK12

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

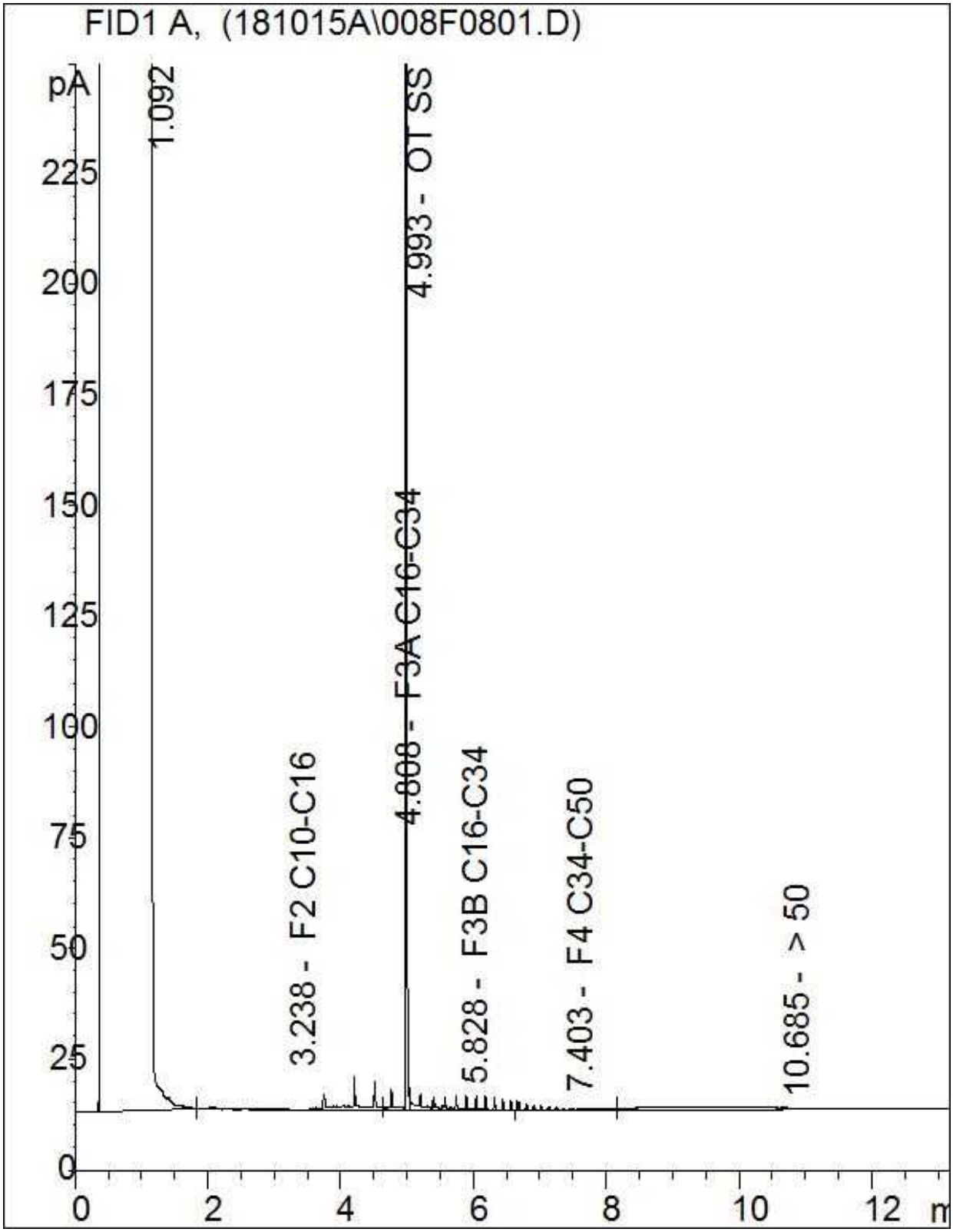


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q8015
Report Date: 2018/10/22
Maxxam Sample: HZJ736

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181010-JK13

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

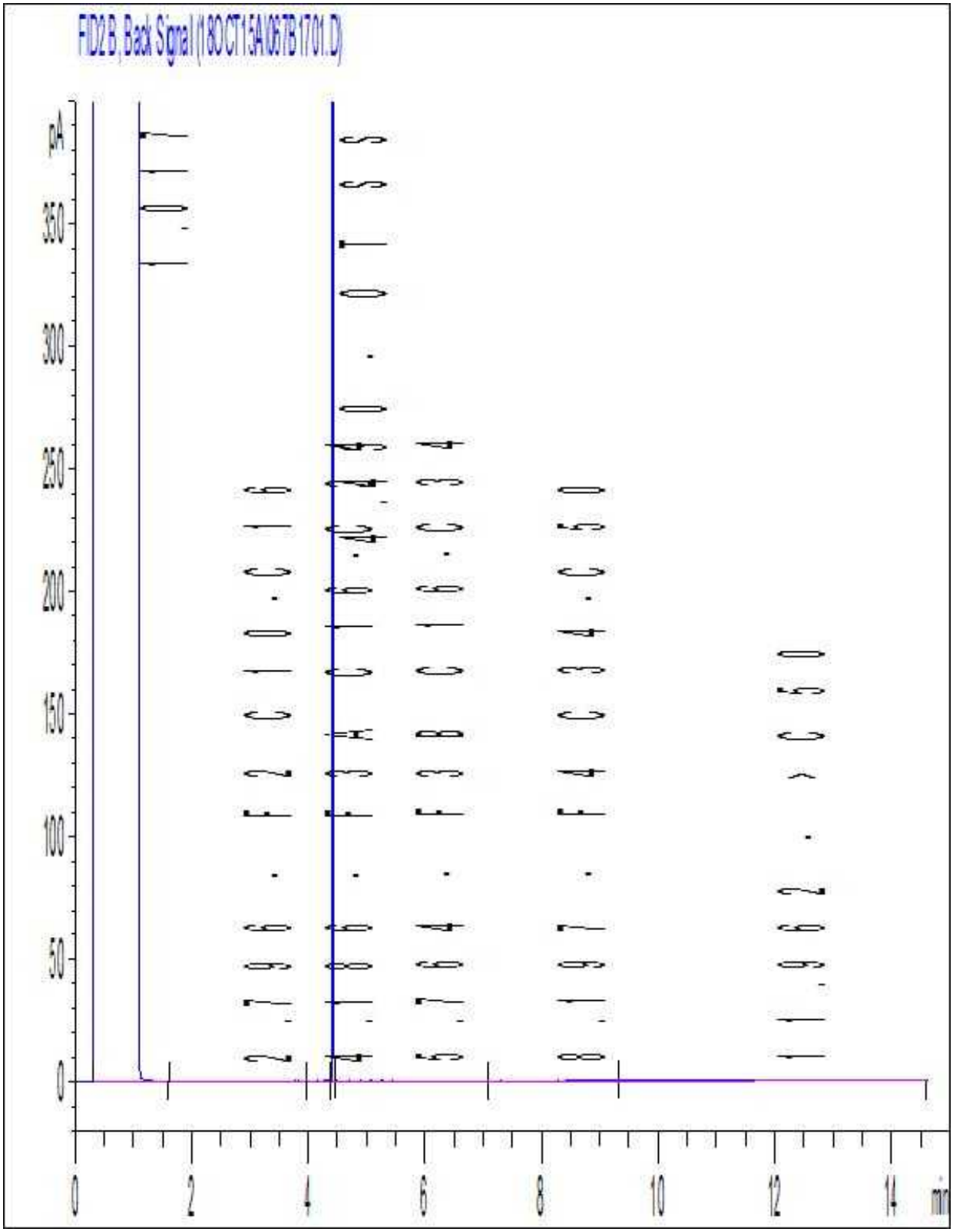


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q8015
Report Date: 2018/10/22
Maxxam Sample: HZJ737

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181010-JK14

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

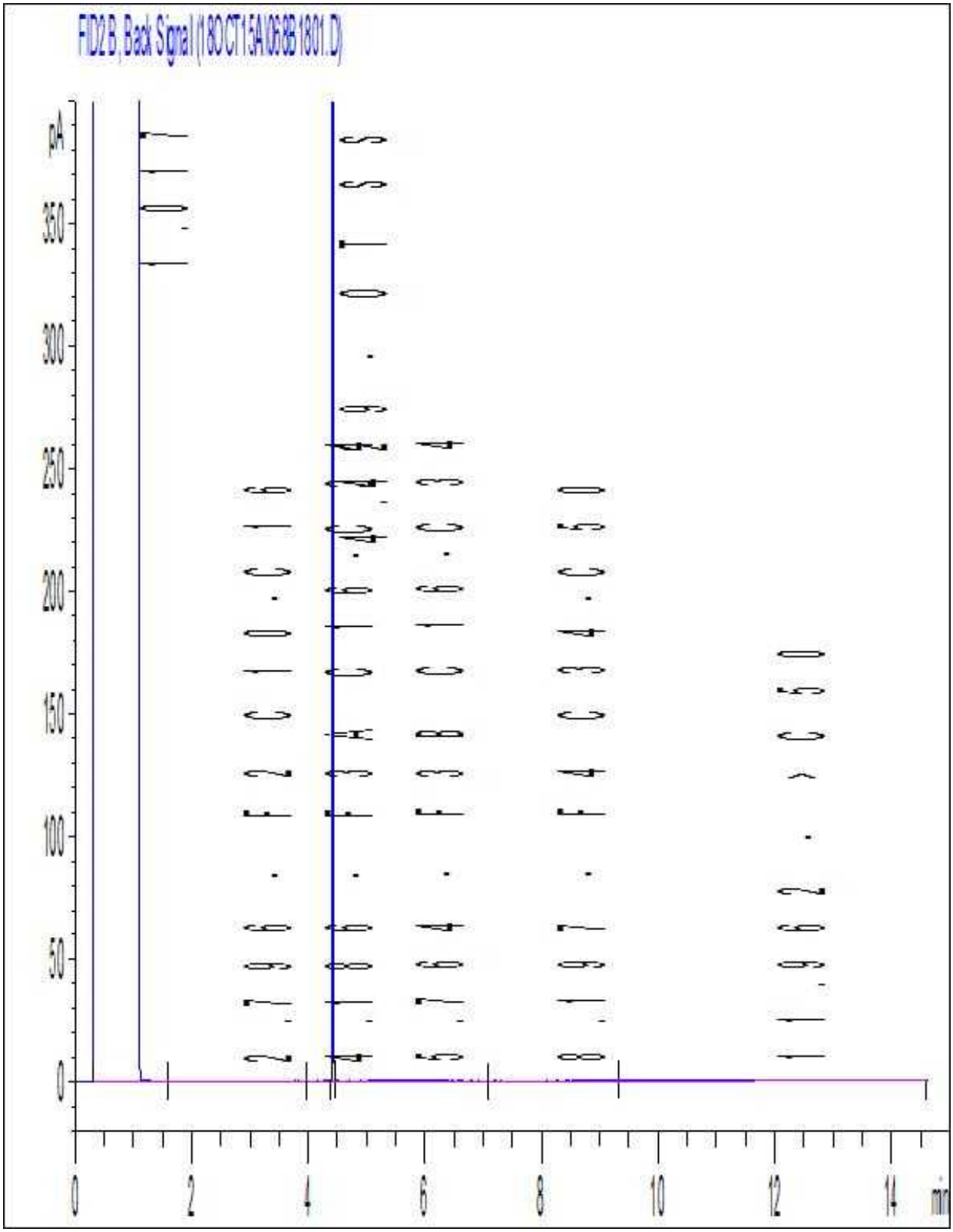


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q8015
Report Date: 2018/10/22
Maxxam Sample: HZJ738

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181010-JK15

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

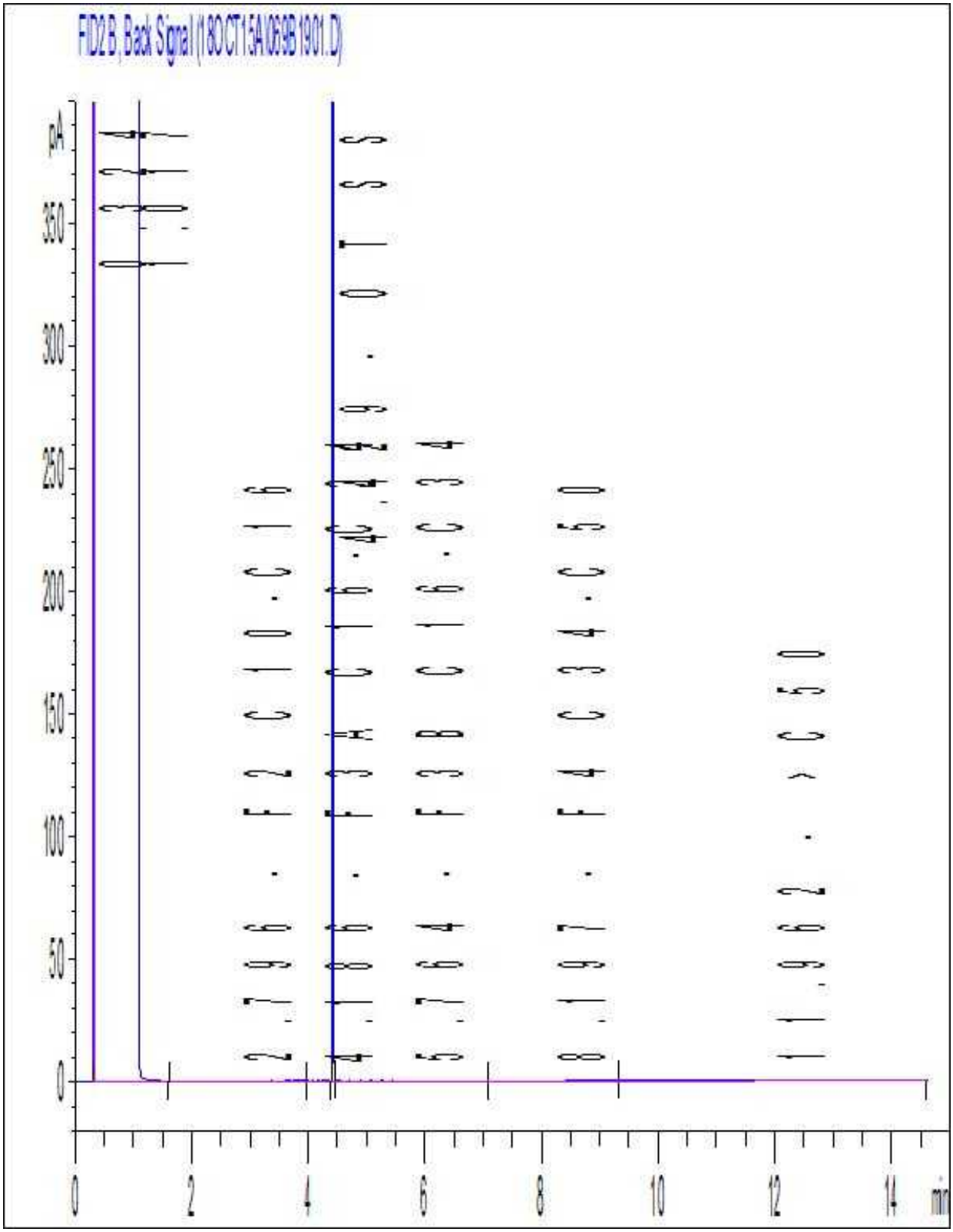


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q8015
Report Date: 2018/10/22
Maxxam Sample: HZJ739

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181010-JK16

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

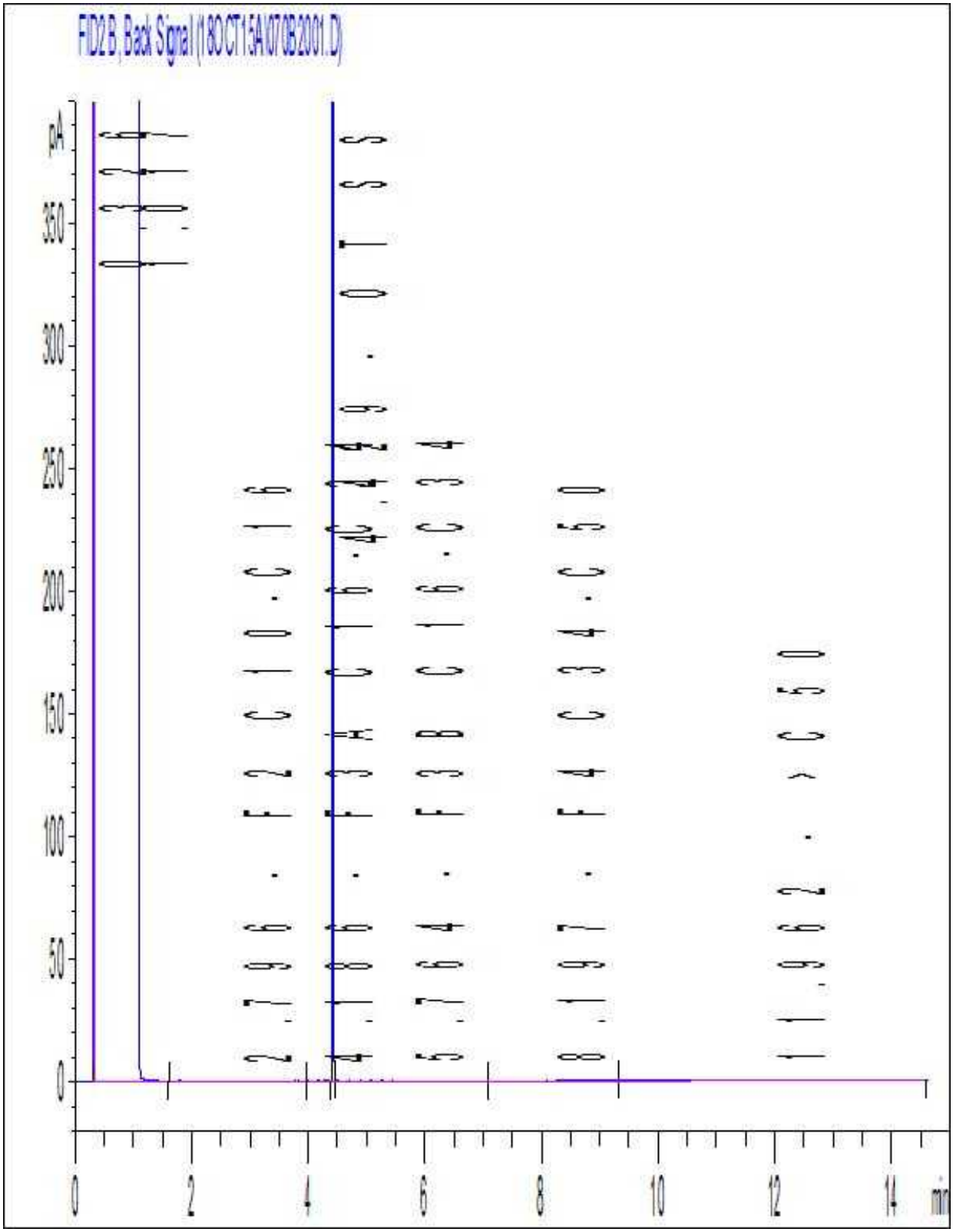


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q8015
Report Date: 2018/10/22
Maxxam Sample: HZJ740

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181010-JK17

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

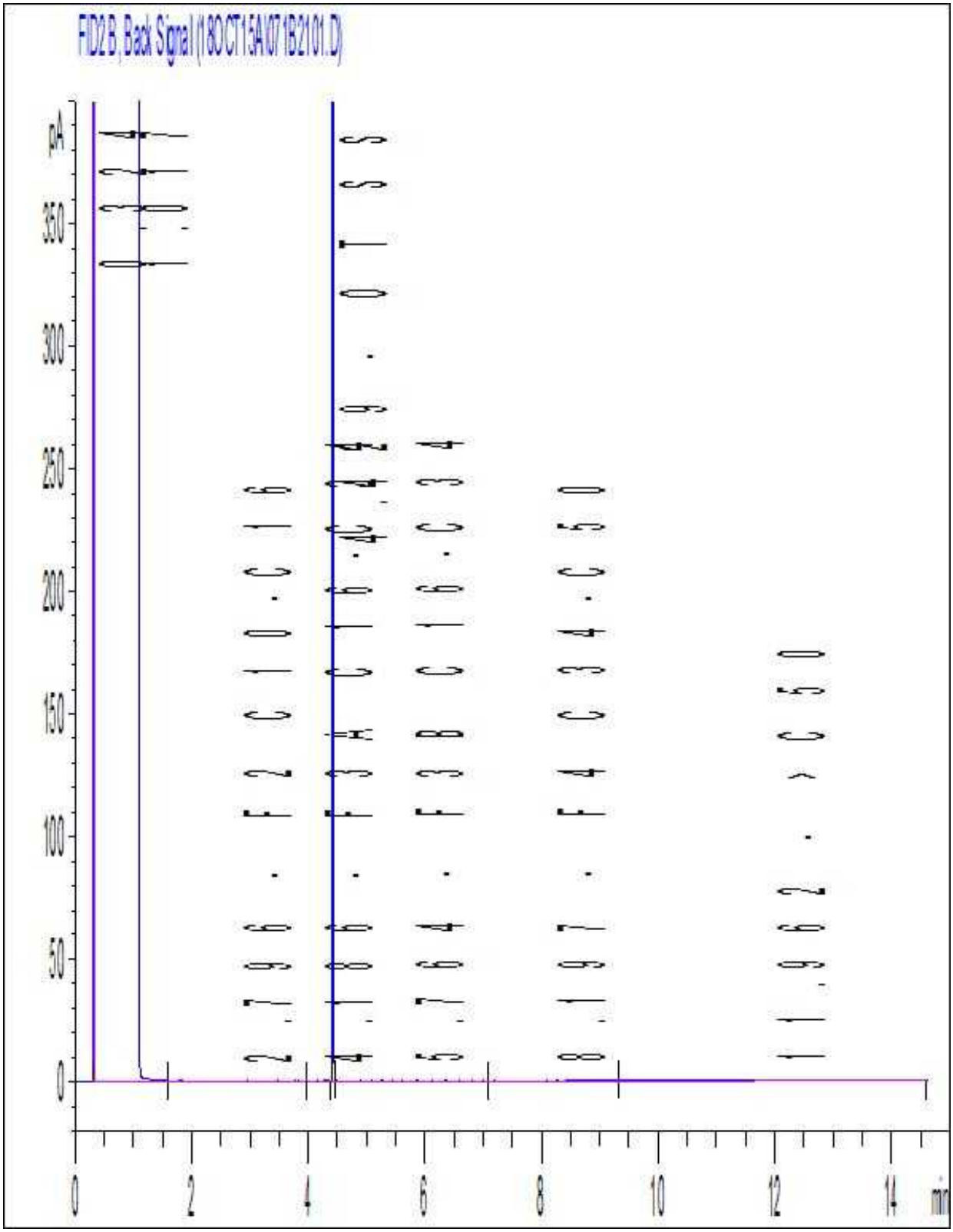


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q8015
Report Date: 2018/10/22
Maxxam Sample: HZJ741

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181010-JK18

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.