



Nunavut CGS - Petroleum Products Division
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Date Received: 29-JUN-22
Report Date: 04-JUL-22 14:23 (MT)
Version: FINAL

Client Phone: 867-645-8444

Certificate of Analysis

Lab Work Order #: L2719035
Project P.O. #: NOT SUBMITTED
Job Reference: BAKER LAKE WATER TREATMENT 2022
C of C Numbers:
Legal Site Desc:



Hua Wo
Chemistry Laboratory Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2719035-1 2022 BL WT 02 Sampled By: CLIENT on 27-JUN-22 @ 09:05 Matrix: WATER							
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	30-JUN-22	30-JUN-22	R5809238
F3 (C16-C34)	<0.25		0.25	mg/L	30-JUN-22	30-JUN-22	R5809238
F4 (C34-C50)	<0.25		0.25	mg/L	30-JUN-22	30-JUN-22	R5809238
Surrogate: 2-Bromobenzotrifluoride	99.3		60-140	%	30-JUN-22	30-JUN-22	R5809238
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		04-JUL-22	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		04-JUL-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		04-JUL-22	
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		04-JUL-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		30-JUN-22	R5812818
Benzene	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Bromobenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Bromochloromethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Bromodichloromethane	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Bromoform	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Bromomethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
n-Butylbenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
sec-Butylbenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
tert-Butylbenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Carbon disulfide	<0.0050		0.0050	mg/L		30-JUN-22	R5812818
Carbon Tetrachloride	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Chlorobenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Chloroethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Chloroform	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Chloromethane	<0.0050		0.0050	mg/L		30-JUN-22	R5812818
2-Chlorotoluene	<0.020		0.020	mg/L		30-JUN-22	R5812818
4-Chlorotoluene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Dibromochloromethane	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,2-Dibromoethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Dibromomethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,1-dichloroethane	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,2-Dichloroethane	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,1-dichloroethene	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Dichloromethane	<0.0050		0.0050	mg/L		30-JUN-22	R5812818
1,2-Dichloropropane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,3-Dichloropropane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
2,2-Dichloropropane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,1-Dichloropropene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2719035-1	2022 BL WT 02							
Sampled By:	CLIENT on 27-JUN-22 @ 09:05							
Matrix:	WATER							
VOC plus F1 by GCMS								
Ethylbenzene		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
F1		<0.10		0.10	mg/L		30-JUN-22	R5812818
Hexachlorobutadiene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Hexane		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
2-Hexanone (Methyl butyl ketone)		<0.020		0.020	mg/L		30-JUN-22	R5812818
Isopropylbenzene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
4-Isopropyltoluene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
MEK		<0.020		0.020	mg/L		30-JUN-22	R5812818
MIBK		<0.020		0.020	mg/L		30-JUN-22	R5812818
MTBE		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Styrene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,1,1,2-Tetrachloroethane		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,1,2,2-Tetrachloroethane		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Tetrachloroethene		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Toluene		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,2,3-Trichlorobenzene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,2,4-Trichlorobenzene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,1,1-Trichloroethane		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,1,2-Trichloroethane		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Trichloroethene		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Trichlorofluoromethane		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,2,3-Trichloropropane		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,2,4-Trimethylbenzene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,3,5-Trimethylbenzene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Vinyl Chloride		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
M+P-Xylenes		<0.00040		0.00040	mg/L		30-JUN-22	R5812818
o-Xylene		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Surrogate: 4-Bromofluorobenzene (SS)		91.2		70-130	%		30-JUN-22	R5812818
Surrogate: 1,4-Difluorobenzene (SS)		102.0		70-130	%		30-JUN-22	R5812818
Surrogate: 3,4-Dichlorotoluene (SS)		90.8		70-130	%		30-JUN-22	R5812818
L2719035-2	2022 BL WATER CELL 02							
Sampled By:	CLIENT on 27-JUN-22 @ 09:05							
Matrix:	WATER							
VOC plus F1 to F4								
CCME PHC F2-F4 in Water								
F2 (C10-C16)		<0.10		0.10	mg/L	30-JUN-22	30-JUN-22	R5809238
F3 (C16-C34)		<0.25		0.25	mg/L	30-JUN-22	30-JUN-22	R5809238
F4 (C34-C50)		<0.25		0.25	mg/L	30-JUN-22	30-JUN-22	R5809238
Surrogate: 2-Bromobenzotrifluoride		100.5		60-140	%	30-JUN-22	30-JUN-22	R5809238
CCME Total Hydrocarbons								
F1-BTEX		<0.10		0.10	mg/L		04-JUL-22	
Total Hydrocarbons (C6-C50)		<0.38		0.38	mg/L		04-JUL-22	
Sum of Xylene Isomer Concentrations								
Xylenes (Total)		<0.00064		0.00064	mg/L		04-JUL-22	
Total Trihalomethanes (THMs)								
Total THMs		<0.0013		0.0013	mg/L		04-JUL-22	
VOC plus F1 by GCMS								
Acetone		<0.050		0.050	mg/L		30-JUN-22	R5812818
Benzene		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Bromobenzene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2719035-2 2022 BL WATER CELL 02							
Sampled By: CLIENT on 27-JUN-22 @ 09:05							
Matrix: WATER							
VOC plus F1 by GCMS							
Bromochloromethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Bromodichloromethane	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Bromoform	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Bromomethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
n-Butylbenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
sec-Butylbenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
tert-Butylbenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Carbon disulfide	<0.0050		0.0050	mg/L		30-JUN-22	R5812818
Carbon Tetrachloride	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Chlorobenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Chloroethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Chloroform	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Chloromethane	<0.0050		0.0050	mg/L		30-JUN-22	R5812818
2-Chlorotoluene	<0.020		0.020	mg/L		30-JUN-22	R5812818
4-Chlorotoluene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Dibromochloromethane	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,2-Dibromoethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Dibromomethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,1-dichloroethane	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,2-Dichloroethane	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,1-dichloroethene	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Dichloromethane	<0.0050		0.0050	mg/L		30-JUN-22	R5812818
1,2-Dichloropropane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,3-Dichloropropane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
2,2-Dichloropropane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,1-Dichloropropene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Ethylbenzene	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
F1	<0.10		0.10	mg/L		30-JUN-22	R5812818
Hexachlorobutadiene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Hexane	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		30-JUN-22	R5812818
Isopropylbenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
4-Isopropyltoluene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
MEK	<0.020		0.020	mg/L		30-JUN-22	R5812818
MIBK	<0.020		0.020	mg/L		30-JUN-22	R5812818
MTBE	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Styrene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Tetrachloroethene	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Toluene	<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		30-JUN-22	R5812818

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2719035-2	2022 BL WATER CELL 02							
Sampled By:	CLIENT on 27-JUN-22 @ 09:05							
Matrix:	WATER							
VOC plus F1 by GCMS								
1,2,4-Trichlorobenzene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,1,1-Trichloroethane		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
1,1,2-Trichloroethane		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Trichloroethene		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Trichlorofluoromethane		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,2,3-Trichloropropane		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,2,4-Trimethylbenzene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
1,3,5-Trimethylbenzene		<0.0010		0.0010	mg/L		30-JUN-22	R5812818
Vinyl Chloride		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
M+P-Xylenes		<0.00040		0.00040	mg/L		30-JUN-22	R5812818
o-Xylene		<0.00050		0.00050	mg/L		30-JUN-22	R5812818
Surrogate: 4-Bromofluorobenzene (SS)		89.5		70-130	%		30-JUN-22	R5812818
Surrogate: 1,4-Difluorobenzene (SS)		99.8		70-130	%		30-JUN-22	R5812818
Surrogate: 3,4-Dichlorotoluene (SS)		70.4		70-130	%		30-JUN-22	R5812818

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
F1-F4-CALC-WP	Water	CCME Total Hydrocarbons	CCME CWS-PHC, Pub #1310, Dec 2001-L
Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.			
In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.			
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.			
In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.			
Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:			
1. All extraction and analysis holding times were met.			
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.			
3. Linearity of gasoline response within 15% throughout the calibration range.			
Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:			
1. All extraction and analysis holding times were met.			
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.			
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.			
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.			
F2-F4-FID-WP	Water	CCME PHC F2-F4 in Water	EPA 3511
Petroleum hydrocarbons in water are determined by liquid-liquid micro-scale solvent extraction using a reciprocal shaker extraction apparatus prior to capillary column gas chromatography with flame ionization detection (GC-FID) analysis.			
THM-SUM-CALC-WP	Water	Total Trihalomethanes (THMs)	CALCULATION
Total Trihalomethanes (THMs) represents the sum of bromodichloromethane, bromoform, chlorodibromomethane and chloroform. For the purpose of calculation, results less than the detection limit (DL) are treated as zero.			
VOC+F1-HSMS-WP	Water	VOC plus F1 by GCMS	EPA 8260C / EPA 5021A
In this method samples are analyzed using a headspace autosampler interfaced to a dual column gas chromatograph with MS and Flame Ionization detectors.			
XYLENES-SUM-CALC-WP	Water	Sum of Xylene Isomer Concentrations	CALCULATED RESULT
Total xylenes represents the sum of o-xylene and m&p-xylene.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
Chain of Custody Numbers:	

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg ww - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.

< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2719035

Report Date: 04-JUL-22

Page 1 of 10

Client: Nunavut CGS - Petroleum Products Division

Box 590

Rankin Inlet NU X0C 0G0

Contact: SULAIMON AYILARA

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-FID-WP		Water						
Batch	R5809238							
WG3745096-2	LCS							
F2 (C10-C16)			113.9		%		70-130	29-JUN-22
F3 (C16-C34)			101.9		%		70-130	29-JUN-22
F4 (C34-C50)			104.8		%		70-130	29-JUN-22
WG3745096-1	MB							
F2 (C10-C16)			<0.10		mg/L		0.1	29-JUN-22
F3 (C16-C34)			<0.25		mg/L		0.25	29-JUN-22
F4 (C34-C50)			<0.25		mg/L		0.25	29-JUN-22
Surrogate: 2-Bromobenzotrifluoride			98.5		%		60-140	29-JUN-22
VOC+F1-HSMS-WP		Water						
Batch	R5812818							
WG3745494-10	DUP	L2719035-1						
Acetone		<0.050	<0.050	RPD-NA	mg/L	N/A	30	30-JUN-22
Benzene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
Bromobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Bromochloromethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Bromodichloromethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
Bromoform		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Bromomethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	30-JUN-22
n-Butylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
sec-Butylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
tert-Butylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Carbon disulfide		<0.0050	<0.0050	RPD-NA	mg/L	N/A	30	30-JUN-22
Carbon Tetrachloride		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
Chlorobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Chloroethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	30-JUN-22
Chloroform		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
Chloromethane		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	30-JUN-22
2-Chlorotoluene		<0.020	<0.020	RPD-NA	mg/L	N/A	30	30-JUN-22
4-Chlorotoluene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Dibromochloromethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
1,2-Dibromo-3-chloropropane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
1,2-Dibromoethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Dibromomethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
1,2-Dichlorobenzene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22

Quality Control Report

Workorder: L2719035

Report Date: 04-JUL-22

Page 2 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP		Water						
Batch	R5812818							
WG3745494-10 DUP		L2719035-1						
1,3-Dichlorobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
1,4-Dichlorobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Dichlorodifluoromethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	30-JUN-22
1,1-dichloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
1,2-Dichloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
1,1-dichloroethene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
cis-1,2-Dichloroethene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
trans-1,2-Dichloroethene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Dichloromethane		<0.0050	<0.0050	RPD-NA	mg/L	N/A	30	30-JUN-22
1,2-Dichloropropane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
1,3-Dichloropropane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
2,2-Dichloropropane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
1,1-Dichloropropene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
cis-1,3-Dichloropropene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
trans-1,3-Dichloropropene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Ethylbenzene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
F1		<0.10	<0.10	RPD-NA	mg/L	N/A	30	30-JUN-22
Hexachlorobutadiene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Hexane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
2-Hexanone (Methyl butyl ketone)		<0.020	<0.020	RPD-NA	mg/L	N/A	30	30-JUN-22
Isopropylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
4-Isopropyltoluene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
MEK		<0.020	<0.020	RPD-NA	mg/L	N/A	30	30-JUN-22
MIBK		<0.020	<0.020	RPD-NA	mg/L	N/A	30	30-JUN-22
MTBE		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
Styrene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
1,1,1,2-Tetrachloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
1,1,2,2-Tetrachloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
Tetrachloroethene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
Toluene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
1,2,3-Trichlorobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
1,2,4-Trichlorobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
1,1,1-Trichloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
1,1,2-Trichloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22

Quality Control Report

Workorder: L2719035

Report Date: 04-JUL-22

Page 3 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP								
Batch R5812818								
WG3745494-10 DUP		L2719035-1						
Trichloroethene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
Trichlorofluoromethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	30-JUN-22
1,2,3-Trichloropropane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
1,2,4-Trimethylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
1,3,5-Trimethylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	30-JUN-22
Vinyl Chloride		<0.00050	<0.00050	RPD-NA	mg/L	N/A	50	30-JUN-22
M+P-Xylenes		<0.00040	<0.00040	RPD-NA	mg/L	N/A	30	30-JUN-22
o-Xylene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	30-JUN-22
WG3745494-8 LCS								
Acetone			73.3		%		70-130	30-JUN-22
Benzene			88.9		%		70-130	30-JUN-22
Bromobenzene			105.2		%		70-130	30-JUN-22
Bromochloromethane			84.6		%		70-130	30-JUN-22
Bromodichloromethane			87.2		%		70-130	30-JUN-22
Bromoform			91.0		%		70-130	30-JUN-22
Bromomethane			85.4		%		60-140	30-JUN-22
n-Butylbenzene			98.1		%		70-130	30-JUN-22
sec-Butylbenzene			94.8		%		70-130	30-JUN-22
tert-Butylbenzene			99.7		%		70-130	30-JUN-22
Carbon disulfide			87.9		%		70-130	30-JUN-22
Carbon Tetrachloride			89.8		%		70-130	30-JUN-22
Chlorobenzene			106.0		%		70-130	30-JUN-22
Chloroethane			88.2		%		60-140	30-JUN-22
Chloroform			87.3		%		70-130	30-JUN-22
Chloromethane			85.9		%		60-140	30-JUN-22
2-Chlorotoluene			90.7		%		70-130	30-JUN-22
4-Chlorotoluene			98.5		%		70-130	30-JUN-22
Dibromochloromethane			96.3		%		70-130	30-JUN-22
1,2-Dibromo-3-chloropropane			107.5		%		70-130	30-JUN-22
1,2-Dibromoethane			88.6		%		70-130	30-JUN-22
Dibromomethane			85.9		%		70-130	30-JUN-22
1,2-Dichlorobenzene			106.6		%		70-130	30-JUN-22
1,3-Dichlorobenzene			91.8		%		70-130	30-JUN-22
1,4-Dichlorobenzene			93.0		%		70-130	30-JUN-22

Quality Control Report

Workorder: L2719035

Report Date: 04-JUL-22

Page 4 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP		Water						
Batch	R5812818							
WG3745494-8	LCS							
Dichlorodifluoromethane			82.8		%		60-140	30-JUN-22
1,1-dichloroethane			88.3		%		70-130	30-JUN-22
1,2-Dichloroethane			83.9		%		70-130	30-JUN-22
1,1-dichloroethene			89.2		%		70-130	30-JUN-22
cis-1,2-Dichloroethene			84.7		%		70-130	30-JUN-22
trans-1,2-Dichloroethene			88.0		%		70-130	30-JUN-22
Dichloromethane			85.4		%		70-130	30-JUN-22
1,2-Dichloropropane			87.7		%		70-130	30-JUN-22
1,3-Dichloropropane			89.3		%		70-130	30-JUN-22
2,2-Dichloropropane			74.2		%		70-130	30-JUN-22
1,1-Dichloropropene			90.8		%		70-130	30-JUN-22
cis-1,3-Dichloropropene			79.3		%		70-130	30-JUN-22
trans-1,3-Dichloropropene			81.0		%		70-130	30-JUN-22
Ethylbenzene			96.8		%		70-130	30-JUN-22
Hexachlorobutadiene			95.2		%		70-130	30-JUN-22
Hexane			91.1		%		70-130	30-JUN-22
2-Hexanone (Methyl butyl ketone)			94.6		%		70-130	30-JUN-22
Isopropylbenzene			104.9		%		70-130	30-JUN-22
4-Isopropyltoluene			94.0		%		70-130	30-JUN-22
MEK			79.1		%		70-130	30-JUN-22
MIBK			86.3		%		70-130	30-JUN-22
MTBE			106.6		%		70-130	30-JUN-22
Styrene			85.3		%		70-130	30-JUN-22
1,1,1,2-Tetrachloroethane			107.0		%		70-130	30-JUN-22
1,1,2,2-Tetrachloroethane			90.8		%		70-130	30-JUN-22
Tetrachloroethene			92.8		%		70-130	30-JUN-22
Toluene			95.4		%		70-130	30-JUN-22
1,2,3-Trichlorobenzene			112.9		%		70-130	30-JUN-22
1,2,4-Trichlorobenzene			111.9		%		70-130	30-JUN-22
1,1,1-Trichloroethane			88.6		%		70-130	30-JUN-22
1,1,2-Trichloroethane			96.0		%		70-130	30-JUN-22
Trichloroethene			91.6		%		70-130	30-JUN-22
Trichlorofluoromethane			89.2		%		60-140	30-JUN-22
1,2,3-Trichloropropane			85.9		%		70-130	30-JUN-22

Quality Control Report

Workorder: L2719035

Report Date: 04-JUL-22

Page 5 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP		Water						
Batch	R5812818							
WG3745494-8	LCS							
1,2,4-Trimethylbenzene			96.1		%		70-130	30-JUN-22
1,3,5-Trimethylbenzene			97.2		%		70-130	30-JUN-22
Vinyl Chloride			89.7		%		60-140	30-JUN-22
M+P-Xylenes			105.9		%		70-130	30-JUN-22
o-Xylene			92.6		%		70-130	30-JUN-22
WG3745494-9	LCS							
F1			111.0		%		70-130	30-JUN-22
WG3745494-7	MB							
Acetone			<0.050		mg/L		0.05	30-JUN-22
Benzene			<0.00050		mg/L		0.0005	30-JUN-22
Bromobenzene			<0.0010		mg/L		0.001	30-JUN-22
Bromochloromethane			<0.0010		mg/L		0.001	30-JUN-22
Bromodichloromethane			<0.00050		mg/L		0.0005	30-JUN-22
Bromoform			<0.0010		mg/L		0.001	30-JUN-22
Bromomethane			<0.0010		mg/L		0.001	30-JUN-22
n-Butylbenzene			<0.0010		mg/L		0.001	30-JUN-22
sec-Butylbenzene			<0.0010		mg/L		0.001	30-JUN-22
tert-Butylbenzene			<0.0010		mg/L		0.001	30-JUN-22
Carbon disulfide			<0.0050		mg/L		0.005	30-JUN-22
Carbon Tetrachloride			<0.00050		mg/L		0.0005	30-JUN-22
Chlorobenzene			<0.0010		mg/L		0.001	30-JUN-22
Chloroethane			<0.0010		mg/L		0.001	30-JUN-22
Chloroform			<0.00050		mg/L		0.0005	30-JUN-22
Chloromethane			<0.0050		mg/L		0.005	30-JUN-22
2-Chlorotoluene			<0.020		mg/L		0.02	30-JUN-22
4-Chlorotoluene			<0.0010		mg/L		0.001	30-JUN-22
Dibromochloromethane			<0.00050		mg/L		0.0005	30-JUN-22
1,2-Dibromo-3-chloropropane			<0.0010		mg/L		0.001	30-JUN-22
1,2-Dibromoethane			<0.0010		mg/L		0.001	30-JUN-22
Dibromomethane			<0.0010		mg/L		0.001	30-JUN-22
1,2-Dichlorobenzene			<0.00050		mg/L		0.0005	30-JUN-22
1,3-Dichlorobenzene			<0.0010		mg/L		0.001	30-JUN-22
1,4-Dichlorobenzene			<0.0010		mg/L		0.001	30-JUN-22
Dichlorodifluoromethane			<0.0010		mg/L		0.001	30-JUN-22
1,1-dichloroethane			<0.00050		mg/L		0.0005	30-JUN-22

Quality Control Report

Workorder: L2719035

Report Date: 04-JUL-22

Page 6 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP		Water						
Batch	R5812818							
WG3745494-7 MB								
1,2-Dichloroethane			<0.00050		mg/L		0.0005	30-JUN-22
1,1-dichloroethene			<0.00050		mg/L		0.0005	30-JUN-22
cis-1,2-Dichloroethene			<0.0010		mg/L		0.001	30-JUN-22
trans-1,2-Dichloroethene			<0.0010		mg/L		0.001	30-JUN-22
Dichloromethane			<0.0050		mg/L		0.005	30-JUN-22
1,2-Dichloropropane			<0.0010		mg/L		0.001	30-JUN-22
1,3-Dichloropropane			<0.0010		mg/L		0.001	30-JUN-22
2,2-Dichloropropane			<0.0010		mg/L		0.001	30-JUN-22
1,1-Dichloropropene			<0.0010		mg/L		0.001	30-JUN-22
cis-1,3-Dichloropropene			<0.0010		mg/L		0.001	30-JUN-22
trans-1,3-Dichloropropene			<0.0010		mg/L		0.001	30-JUN-22
Ethylbenzene			<0.00050		mg/L		0.0005	30-JUN-22
F1			<0.10		mg/L		0.1	30-JUN-22
Hexachlorobutadiene			<0.0010		mg/L		0.001	30-JUN-22
Hexane			<0.0010		mg/L		0.001	30-JUN-22
2-Hexanone (Methyl butyl ketone)			<0.020		mg/L		0.02	30-JUN-22
Isopropylbenzene			<0.0010		mg/L		0.001	30-JUN-22
4-Isopropyltoluene			<0.0010		mg/L		0.001	30-JUN-22
MEK			<0.020		mg/L		0.02	30-JUN-22
MIBK			<0.020		mg/L		0.02	30-JUN-22
MTBE			<0.00050		mg/L		0.0005	30-JUN-22
Styrene			<0.0010		mg/L		0.001	30-JUN-22
1,1,1,2-Tetrachloroethane			<0.00050		mg/L		0.0005	30-JUN-22
1,1,2,2-Tetrachloroethane			<0.00050		mg/L		0.0005	30-JUN-22
Tetrachloroethene			<0.00050		mg/L		0.0005	30-JUN-22
Toluene			<0.00050		mg/L		0.0005	30-JUN-22
1,2,3-Trichlorobenzene			<0.0010		mg/L		0.001	30-JUN-22
1,2,4-Trichlorobenzene			<0.0010		mg/L		0.001	30-JUN-22
1,1,1-Trichloroethane			<0.00050		mg/L		0.0005	30-JUN-22
1,1,2-Trichloroethane			<0.00050		mg/L		0.0005	30-JUN-22
Trichloroethene			<0.00050		mg/L		0.0005	30-JUN-22
Trichlorofluoromethane			<0.0010		mg/L		0.001	30-JUN-22
1,2,3-Trichloropropane			<0.0010		mg/L		0.001	30-JUN-22
1,2,4-Trimethylbenzene			<0.0010		mg/L		0.001	30-JUN-22

Quality Control Report

Workorder: L2719035

Report Date: 04-JUL-22

Page 7 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP								
Batch R5812818								
WG3745494-7 MB								
1,3,5-Trimethylbenzene	Water		<0.0010		mg/L		0.001	30-JUN-22
Vinyl Chloride			<0.00050		mg/L		0.0005	30-JUN-22
M+P-Xylenes			<0.00040		mg/L		0.0004	30-JUN-22
o-Xylene			<0.00050		mg/L		0.0005	30-JUN-22
Surrogate: 4-Bromofluorobenzene (SS)			90.4		%		70-130	30-JUN-22
Surrogate: 1,4-Difluorobenzene (SS)			102.6		%		70-130	30-JUN-22
Surrogate: 3,4-Dichlorotoluene (SS)			104.7		%		70-130	30-JUN-22
WG3745494-11 MS		L2719035-1						
Acetone			94.3		%		70-130	30-JUN-22
Benzene			95.2		%		70-130	30-JUN-22
Bromobenzene			111.9		%		70-130	30-JUN-22
Bromochloromethane			95.8		%		70-130	30-JUN-22
Bromodichloromethane			95.8		%		70-130	30-JUN-22
Bromoform			98.2		%		70-130	30-JUN-22
Bromomethane			89.5		%		70-130	30-JUN-22
n-Butylbenzene			87.9		%		70-130	30-JUN-22
sec-Butylbenzene			90.7		%		70-130	30-JUN-22
tert-Butylbenzene			96.1		%		70-130	30-JUN-22
Carbon disulfide			83.6		%		70-130	30-JUN-22
Carbon Tetrachloride			89.0		%		70-130	30-JUN-22
Chlorobenzene			110.2		%		70-130	30-JUN-22
Chloroethane			90.4		%		60-140	30-JUN-22
Chloroform			92.4		%		70-130	30-JUN-22
Chloromethane			86.7		%		70-130	30-JUN-22
2-Chlorotoluene			91.6		%		70-130	30-JUN-22
4-Chlorotoluene			96.0		%		70-130	30-JUN-22
Dibromochloromethane			106.3		%		70-130	30-JUN-22
1,2-Dibromo-3-chloropropane			126.7		%		70-130	30-JUN-22
1,2-Dibromoethane			104.3		%		70-130	30-JUN-22
Dibromomethane			99.1		%		70-130	30-JUN-22
1,2-Dichlorobenzene			107.3		%		70-130	30-JUN-22
1,3-Dichlorobenzene			89.7		%		70-130	30-JUN-22
1,4-Dichlorobenzene			91.3		%		70-130	30-JUN-22
Dichlorodifluoromethane			78.0		%		70-130	30-JUN-22

Quality Control Report

Workorder: L2719035

Report Date: 04-JUL-22

Page 8 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP								
Water								
Batch	R5812818							
WG3745494-11 MS		L2719035-1						
1,1-dichloroethane			92.2		%		60-140	30-JUN-22
1,2-Dichloroethane			95.6		%		70-130	30-JUN-22
1,1-dichloroethene			86.5		%		60-140	30-JUN-22
cis-1,2-Dichloroethene			91.9		%		70-130	30-JUN-22
trans-1,2-Dichloroethene			86.9		%		70-130	30-JUN-22
Dichloromethane			91.9		%		70-130	30-JUN-22
1,2-Dichloropropane			100.2		%		70-130	30-JUN-22
1,3-Dichloropropane			101.8		%		70-130	30-JUN-22
2,2-Dichloropropane			81.2		%		70-130	30-JUN-22
1,1-Dichloropropene			92.6		%		60-140	30-JUN-22
cis-1,3-Dichloropropene			97.8		%		70-130	30-JUN-22
trans-1,3-Dichloropropene			91.7		%		70-130	30-JUN-22
Ethylbenzene			98.9		%		70-130	30-JUN-22
Hexachlorobutadiene			89.6		%		70-130	30-JUN-22
Hexane			89.6		%		70-130	30-JUN-22
Isopropylbenzene			102.3		%		70-130	30-JUN-22
4-Isopropyltoluene			89.0		%		70-130	30-JUN-22
MEK			101.2		%		70-130	30-JUN-22
MIBK			121.1		%		70-130	30-JUN-22
MTBE			118.7		%		70-130	30-JUN-22
Styrene			88.4		%		70-130	30-JUN-22
1,1,1,2-Tetrachloroethane			109.9		%		70-130	30-JUN-22
1,1,2,2-Tetrachloroethane			101.2		%		60-140	30-JUN-22
Tetrachloroethene			90.7		%		70-130	30-JUN-22
Toluene			99.7		%		70-130	30-JUN-22
1,2,3-Trichlorobenzene			117.2		%		70-130	30-JUN-22
1,2,4-Trichlorobenzene			112.7		%		70-130	30-JUN-22
1,1,1-Trichloroethane			89.3		%		60-140	30-JUN-22
1,1,2-Trichloroethane			108.6		%		60-140	30-JUN-22
Trichloroethene			95.5		%		70-130	30-JUN-22
Trichlorofluoromethane			86.8		%		70-130	30-JUN-22
1,2,3-Trichloropropane			98.9		%		70-130	30-JUN-22
1,2,4-Trimethylbenzene			93.9		%		70-130	30-JUN-22
1,3,5-Trimethylbenzene			93.4		%		70-130	30-JUN-22

Quality Control Report

Workorder: L2719035

Report Date: 04-JUL-22

Page 9 of 10

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP		Water						
Batch	R5812818							
WG3745494-11 MS		L2719035-1						
Vinyl Chloride			89.6		%		60-140	30-JUN-22
M+P-Xylenes			104.8		%		70-130	30-JUN-22
o-Xylene			96.4		%		70-130	30-JUN-22
WG3745494-12 MS		L2719035-1						
F1			79.9		%		70-130	30-JUN-22

Quality Control Report

Workorder: L2719035

Report Date: 04-JUL-22

Page 10 of 10

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

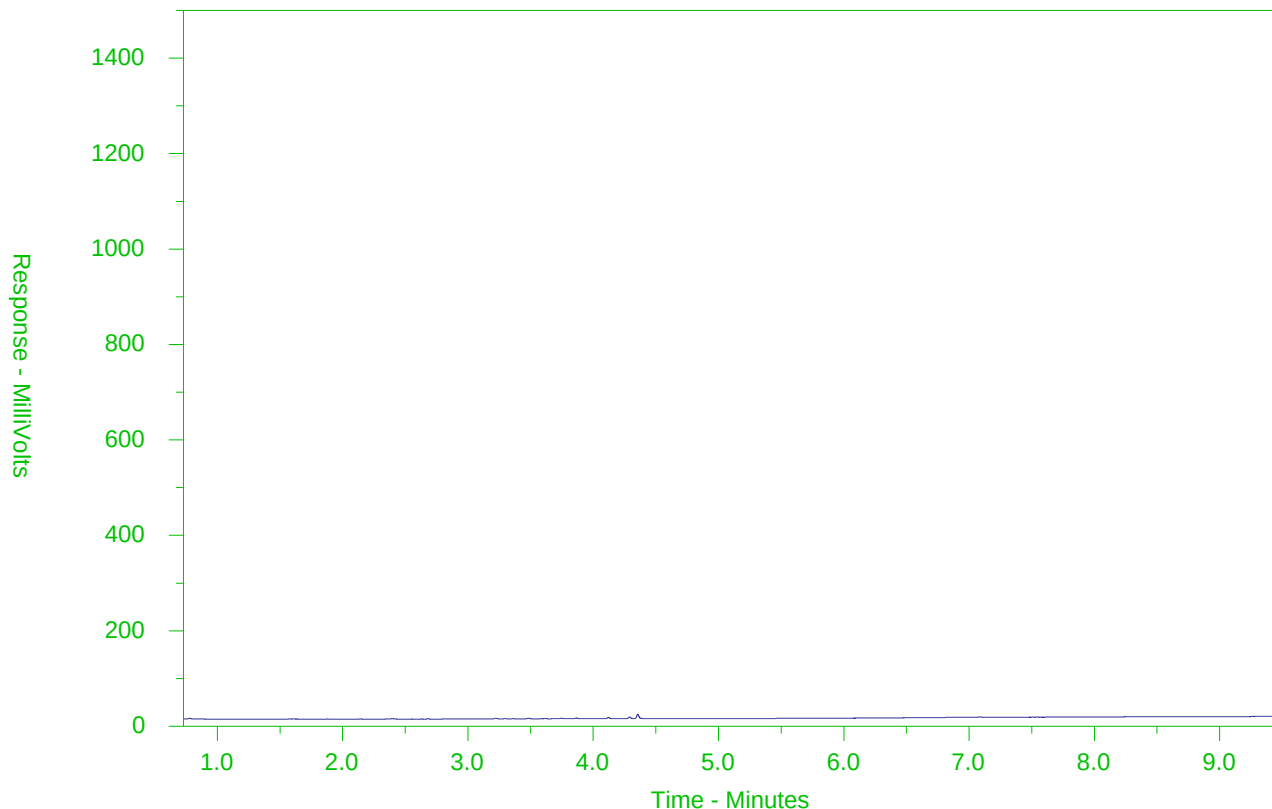
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2719035-1
Client Sample ID: 2022 BL WT 02



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
← Gasoline →		← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

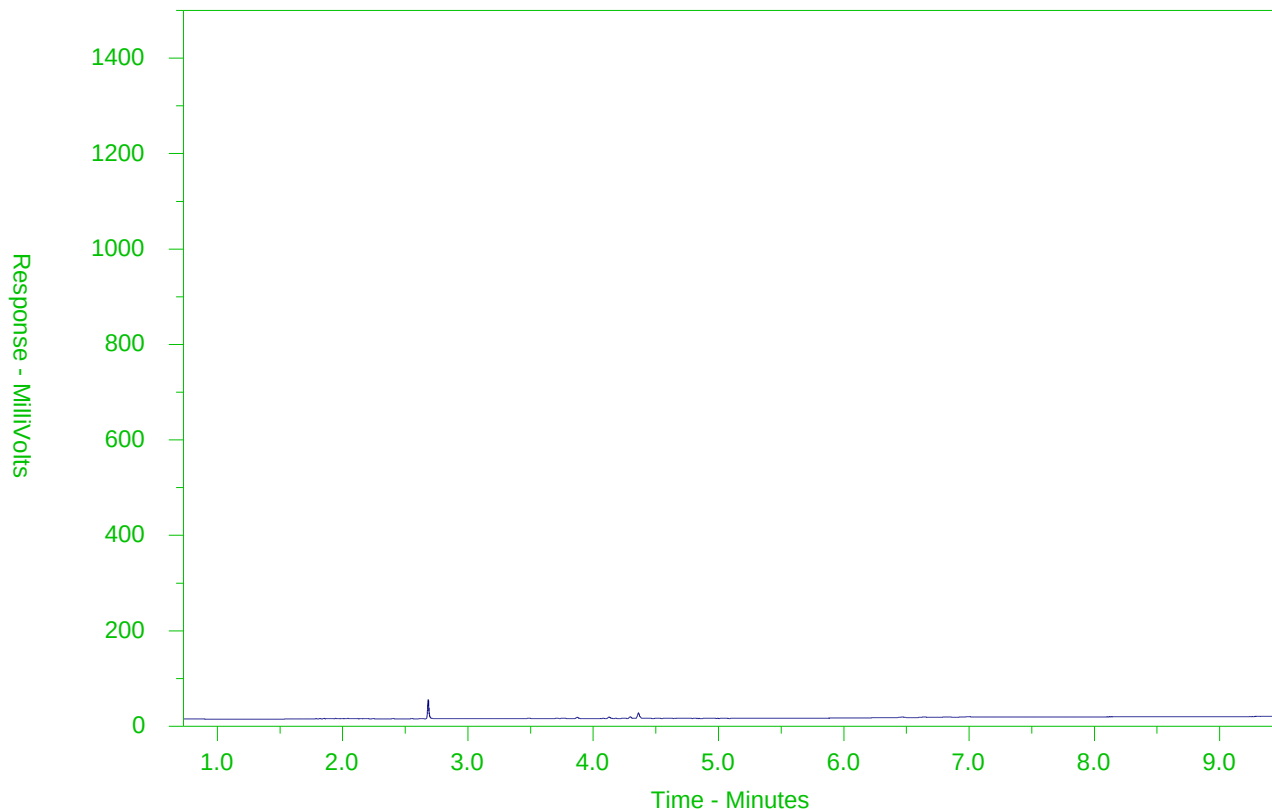
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2719035-2
 Client Sample ID: 2022 BL WATER CELL 02



← F2 →		F3		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →		
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.



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Page of

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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white-report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW CCG form.

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MA EM 0363103 Emissão: 19/06/2010