

NORTH COAL LIMITED

ATTN: Bill Arling

652 F Sparwood Drive

PO Box 576

Sparwood BC VOB 2G0

Date Received: 21-APR-21

Report Date: 03-MAY-21 08:07 (MT)

Version: FINAL

Client Phone: 250-423-8854

Certificate of Analysis

Lab Work Order #: L2578719

Project P.O. #:

NOT SUBMITTED

Job Reference:

18CANA02

C of C Numbers: Legal Site Desc:

Patryk Wojciak, B.Sc., P.Chem.

Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 2559 29 Street NE, Calgary, AB T1Y 7B5 Canada | Phone: +1 403 291 9897 | Fax: +1 403 291 0298 ALS CANADA LTD Part of the ALS Group An ALS Limited Company



L2578719 CONTD.... PAGE 2 of 14

03-MAY-21 08:07 (MT)

Version: FINAL

	Sample ID Description Sampled Date Sampled Time Client ID	L2578719-1 Surface Water 20-APR-21 09:35 MICH-13.0	L2578719-2 Surface Water 20-APR-21 12:30 MICH-33.8	L2578719-3 Surface Water 20-APR-21 13:35 AND1	L2578719-4 Surface Water 20-APR-21 09:00 DUPLICATE	L2578719-5 Surface Water 20-APR-21 12:00 FIELD BLANK
Grouping	Analyte					
WATER						
Physical Tests	Colour, True (CU)	7.6	<5.0	<5.0	6.6	<5.0
	Hardness (as CaCO3) (mg/L)	163	285	147	166	<0.50
	Total Suspended Solids (mg/L)	4.0	<3.0	<3.0	<3.0	<3.0
	Total Dissolved Solids (mg/L)	202	341	153	180	<10
	Turbidity (NTU)	1.44	0.70	0.26	1.63	<0.10
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	126	178	137	121	2.1
	Ammonia as N (mg/L)	0.0257	0.109	0.0491	0.0527	<0.0050
	Bicarbonate (HCO3) (mg/L)	150	208	162	144	<5.0 RRV
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Carbonate (CO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Chloride (CI) (mg/L)	1.70	2.51	<0.50	1.76	<0.50
	Conductivity (EC) (uS/cm)	335	560	281	331	4.9 RRV
	Fluoride (F) (mg/L)	0.054	0.098	0.155	0.056	<0.020
	Hydroxide (OH) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Nitrate (as N) (mg/L)	0.178	0.642	0.132	0.191	0.0657
	Nitrite (as N) (mg/L)	0.0023	<0.0010	<0.0010	<0.0010	<0.0010
	Total Kjeldahl Nitrogen (mg/L)	0.093	0.227	<0.050	0.056	<0.050
	pH (pH)	8.34	8.40	8.36	8.33	6.59
	Orthophosphate-Dissolved (as P) (mg/L)	0.0056	0.0042	0.0021	0.0057	<0.0010
	Phosphorus (P)-Total (mg/L)	0.0076	0.0037	<0.0020	0.0071	<0.0020
	Sulfate (SO4) (mg/L)	46.5	125	17.6	46.5	<0.30
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	2.27	1.61	1.09	2.09	<0.50
	Total Organic Carbon (mg/L)	2.82	1.55	1.49	2.73	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)	0.0934	0.0403	0.0082	0.0923	<0.0030
	Antimony (Sb)-Total (mg/L)	0.00011	0.00011	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00023	0.00026	0.00053	0.00023	<0.00010
	Barium (Ba)-Total (mg/L)	0.0999	0.0653	0.0244	0.102	<0.00010
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Total (mg/L)	<0.010	0.019	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.0000357	0.0000165	0.0000128	0.0000237	<0.0000050
	Calcium (Ca)-Total (mg/L)	46.3	70.8	43.2	43.7	<0.050
	Chromium (Cr)-Total (mg/L)	0.00021	0.00020	0.00025	0.00021	<0.00010
	Cobalt (Co)-Total (mg/L)	<0.00010	0.00017	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	0.067	0.029	<0.010	0.064	<0.010

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

L2578719 CONTD.... PAGE 3 of 14 03-MAY-21 08:07 (MT)

FINAL

Version:

ALS ENVIRONMENTAL ANALYTICAL REPORT

L2578719-6 Sample ID Description Surface Water 20-APR-21 Sampled Date 11:00 **Sampled Time** TRIP BLANK Client ID Grouping Analyte **WATER** Colour, True (CU) **Physical Tests** <5.0 Hardness (as CaCO3) (mg/L) < 0.50 Total Suspended Solids (mg/L) <3.0 Total Dissolved Solids (mg/L) <10 Turbidity (NTU) < 0.10 Alkalinity, Total (as CaCO3) (mg/L) Anions and <2.0 **Nutrients** Ammonia as N (mg/L) < 0.0050 Bicarbonate (HCO3) (mg/L) <5.0 Bromide (Br) (mg/L) < 0.050 Carbonate (CO3) (mg/L) <5.0 Chloride (CI) (mg/L) < 0.50 Conductivity (EC) (uS/cm) <2.0 Fluoride (F) (mg/L) < 0.020 Hydroxide (OH) (mg/L) < 5.0 Nitrate (as N) (mg/L) < 0.0050 Nitrite (as N) (mg/L) < 0.0010 Total Kjeldahl Nitrogen (mg/L) < 0.050 pH (pH) 5.38 Orthophosphate-Dissolved (as P) (mg/L) < 0.0010 Phosphorus (P)-Total (mg/L) < 0.0020 Sulfate (SO4) (mg/L) < 0.30 Dissolved Organic Carbon (mg/L) Organic / < 0.50 **Inorganic Carbon** Total Organic Carbon (mg/L) < 0.50 **Total Metals** Aluminum (Al)-Total (mg/L) < 0.0030 Antimony (Sb)-Total (mg/L) < 0.00010 Arsenic (As)-Total (mg/L) < 0.00010 Barium (Ba)-Total (mg/L) < 0.00010 Beryllium (Be)-Total (mg/L) < 0.000020 Bismuth (Bi)-Total (mg/L) < 0.000050 Boron (B)-Total (mg/L) < 0.010 Cadmium (Cd)-Total (mg/L) < 0.0000050 Calcium (Ca)-Total (mg/L) < 0.050 Chromium (Cr)-Total (mg/L) < 0.00010 Cobalt (Co)-Total (mg/L) < 0.00010 Copper (Cu)-Total (mg/L) < 0.00050 Iron (Fe)-Total (mg/L) < 0.010

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

L2578719 CONTD.... PAGE 4 of 14 03-MAY-21 08:07 (MT)

Version: FINAL

	Sample ID Description Sampled Date Sampled Time Client ID	L2578719-1 Surface Water 20-APR-21 09:35 MICH-13.0	L2578719-2 Surface Water 20-APR-21 12:30 MICH-33.8	L2578719-3 Surface Water 20-APR-21 13:35 AND1	L2578719-4 Surface Water 20-APR-21 09:00 DUPLICATE	L2578719-5 Surface Water 20-APR-21 12:00 FIELD BLANK
Grouping	Analyte					
WATER						
Total Metals	Lead (Pb)-Total (mg/L)	0.000054	<0.000050	<0.000050	0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	0.0057	0.0100	0.0026	0.0051	<0.0010
	Magnesium (Mg)-Total (mg/L)	15.0	27.5	10.0	14.2	<0.0050
	Manganese (Mn)-Total (mg/L)	0.00216	0.00256	0.00018	0.00200	0.00013
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.000050	<0.000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	0.000694	0.000872	0.00101	0.000679	<0.000050
	Nickel (Ni)-Total (mg/L)	0.00090	0.00257	<0.00050	0.00072	<0.00050
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	0.63	0.85	0.27	0.62	<0.10
	Selenium (Se)-Total (mg/L)	0.00177	0.00346	0.00167	0.00155	<0.000050
	Silicon (Si)-Total (mg/L)	2.27	2.03	1.59	2.32	<0.050
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	4.51	9.06	0.797	4.13	<0.050
	Strontium (Sr)-Total (mg/L)	0.151	0.261	0.183	0.137	<0.00020
	Sulfur (S)-Total (mg/L)	19.6	46.6	7.23	17.1	<0.50
	Thallium (TI)-Total (mg/L)	<0.000010	0.000012	0.000046	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	0.00121	0.00082	<0.00030	0.00121	<0.00030
	Uranium (U)-Total (mg/L)	0.000710	0.00148	0.00111	0.000641	<0.000010
	Vanadium (V)-Total (mg/L)	0.00080	0.00052	0.00052	0.00078	<0.00050
	Zinc (Zn)-Total (mg/L)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
	Zirconium (Zr)-Total (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0034	0.0017	0.0070	0.0034	<0.0010
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00018	0.00022	0.00046	0.00017	<0.00010
	Barium (Ba)-Dissolved (mg/L)	0.100	0.0615	0.0246	0.100	<0.00010
	Beryllium (Be)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.010	0.017	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.0000187	0.0000169	0.0000110	0.0000214	<0.0000050
	Calcium (Ca)-Dissolved (mg/L)	42.9	69.9	43.0	44.0	<0.050
	Chromium (Cr)-Dissolved (mg/L)	0.00010	0.00015	0.00025	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	0.00011	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00032	<0.00020	<0.00020	0.00030	<0.00020
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

L2578719 CONTD.... PAGE 5 of 14 03-MAY-21 08:07 (MT)

FINAL

Version:

ALS ENVIRONMENTAL ANALYTICAL REPORT

L2578719-6 Sample ID Description Surface Water Sampled Date 20-APR-21 Sampled Time 11:00 TRIP BLANK **Client ID** Grouping **Analyte WATER Total Metals** Lead (Pb)-Total (mg/L) < 0.000050 Lithium (Li)-Total (mg/L) < 0.0010 Magnesium (Mg)-Total (mg/L) < 0.0050 Manganese (Mn)-Total (mg/L) < 0.00010 Mercury (Hg)-Total (mg/L) < 0.0000050 Molybdenum (Mo)-Total (mg/L) < 0.000050 Nickel (Ni)-Total (mg/L) < 0.00050 Phosphorus (P)-Total (mg/L) < 0.050 Potassium (K)-Total (mg/L) < 0.10 Selenium (Se)-Total (mg/L) < 0.000050 Silicon (Si)-Total (mg/L) < 0.050 Silver (Ag)-Total (mg/L) < 0.000010 Sodium (Na)-Total (mg/L) < 0.050 Strontium (Sr)-Total (mg/L) < 0.00020 Sulfur (S)-Total (mg/L) < 0.50 Thallium (TI)-Total (mg/L) < 0.000010 Tin (Sn)-Total (mg/L) < 0.00010 Titanium (Ti)-Total (mg/L) < 0.00030 Uranium (U)-Total (mg/L) < 0.000010 Vanadium (V)-Total (mg/L) < 0.00050 Zinc (Zn)-Total (mg/L) < 0.0030 Zirconium (Zr)-Total (mg/L) < 0.00030 Dissolved Mercury Filtration Location **Dissolved Metals FIELD** Dissolved Metals Filtration Location **FIELD** Aluminum (Al)-Dissolved (mg/L) < 0.0010 Antimony (Sb)-Dissolved (mg/L) < 0.00010 Arsenic (As)-Dissolved (mg/L) < 0.00010 Barium (Ba)-Dissolved (mg/L) < 0.00010 Beryllium (Be)-Dissolved (mg/L) < 0.000020 Bismuth (Bi)-Dissolved (mg/L) < 0.000050 Boron (B)-Dissolved (mg/L) < 0.010 Cadmium (Cd)-Dissolved (mg/L) < 0.0000050 Calcium (Ca)-Dissolved (mg/L) < 0.050 Chromium (Cr)-Dissolved (mg/L) < 0.00010 Cobalt (Co)-Dissolved (mg/L) < 0.00010 Copper (Cu)-Dissolved (mg/L) < 0.00020 Iron (Fe)-Dissolved (mg/L) < 0.010

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

P/

PAGE 6 of 14 03-MAY-21 08:07 (MT)

Version: FINAL

L2578719 CONTD....

	Sample ID Description Sampled Date Sampled Time Client ID	L2578719-1 Surface Water 20-APR-21 09:35 MICH-13.0	L2578719-2 Surface Water 20-APR-21 12:30 MICH-33.8	L2578719-3 Surface Water 20-APR-21 13:35 AND1	L2578719-4 Surface Water 20-APR-21 09:00 DUPLICATE	L2578719-5 Surface Water 20-APR-21 12:00 FIELD BLANK
Grouping	Analyte					
WATER						
Dissolved Metals	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0045	0.0095	0.0024	0.0048	<0.0010
	Magnesium (Mg)-Dissolved (mg/L)	13.7	26.7	9.63	13.6	<0.0050
	Manganese (Mn)-Dissolved (mg/L)	0.00060	0.00158	0.00030	0.00061	<0.00010
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.0000050	<0.000050	<0.0000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.000634	0.000816	0.000931	0.000655	<0.000050
	Nickel (Ni)-Dissolved (mg/L)	0.00059	0.00237	<0.00050	0.00059	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	0.58	0.81	0.27	0.58	<0.10
	Selenium (Se)-Dissolved (mg/L)	0.00185	0.00399	0.00200	0.00176	<0.000050
	Silicon (Si)-Dissolved (mg/L)	2.11	1.91	1.54	2.13	<0.050
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	3.99	8.77	0.786	4.02	<0.050
	Strontium (Sr)-Dissolved (mg/L)	0.134	0.245	0.175	0.137	<0.00020
	Sulfur (S)-Dissolved (mg/L)	16.0	43.6	6.69	16.5	<0.50
	Thallium (TI)-Dissolved (mg/L)	<0.000010	<0.00010	0.000043	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
	Uranium (U)-Dissolved (mg/L)	0.000581	0.00141	0.00106	0.000600	<0.000010
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	0.0012	0.0011	0.0024	<0.0010	<0.0010
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Aggregate	Chemical Oxygen Demand (mg/L)	10	<10	<10	<10	<10
Organics Volatile Organic Compounds	Acetone (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
-	Acrolein (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Acrylonitrile (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	Benzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bromobenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Bromochloromethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Bromodichloromethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bromoform (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bromomethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	2-Butanone (MEK) (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	n-Butylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	sec-Butylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	tert-Butylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

L2578719 CONTD.... PAGE 7 of 14 03-MAY-21 08:07 (MT)

Version:

FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

L2578719-6 Sample ID Description Surface Water 20-APR-21 Sampled Date Sampled Time 11:00 TRIP BLANK Client ID Grouping **Analyte WATER** Lead (Pb)-Dissolved (mg/L) **Dissolved Metals** < 0.000050 Lithium (Li)-Dissolved (mg/L) < 0.0010 Magnesium (Mg)-Dissolved (mg/L) < 0.0050 Manganese (Mn)-Dissolved (mg/L) < 0.00010 Mercury (Hg)-Dissolved (mg/L) < 0.0000050 Molybdenum (Mo)-Dissolved (mg/L) < 0.000050 Nickel (Ni)-Dissolved (mg/L) < 0.00050 Phosphorus (P)-Dissolved (mg/L) < 0.050 Potassium (K)-Dissolved (mg/L) < 0.10 Selenium (Se)-Dissolved (mg/L) < 0.000050 Silicon (Si)-Dissolved (mg/L) < 0.050 Silver (Ag)-Dissolved (mg/L) < 0.000010 Sodium (Na)-Dissolved (mg/L) < 0.050 Strontium (Sr)-Dissolved (mg/L) < 0.00020 Sulfur (S)-Dissolved (mg/L) < 0.50 Thallium (TI)-Dissolved (mg/L) < 0.000010 Tin (Sn)-Dissolved (mg/L) < 0.00010 Titanium (Ti)-Dissolved (mg/L) < 0.00030 Uranium (U)-Dissolved (mg/L) < 0.000010 Vanadium (V)-Dissolved (mg/L) < 0.00050 Zinc (Zn)-Dissolved (mg/L) < 0.0010 Zirconium (Zr)-Dissolved (mg/L) < 0.00030 Chemical Oxygen Demand (mg/L) Aggregate <10 **Organics** Acetone (mg/L) **Volatile Organic** < 0.050 Compounds Acrolein (mg/L) < 0.050 Acrylonitrile (mg/L) < 0.020 Benzene (mg/L) < 0.00050 Bromobenzene (mg/L) < 0.0010 Bromochloromethane (mg/L) < 0.0010 Bromodichloromethane (mg/L) < 0.00050 Bromoform (mg/L) < 0.00050 Bromomethane (mg/L) < 0.0010 2-Butanone (MEK) (mg/L) < 0.020 n-Butylbenzene (mg/L) < 0.0010 sec-Butylbenzene (mg/L) < 0.0010 tert-Butylbenzene (mg/L) < 0.0010

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

L2578719 CONTD.... PAGE 8 of 14

03-MAY-21 08:07 (MT)

Version: FINAL

	Sample ID Description Sampled Date Sampled Time Client ID	L2578719-1 Surface Water 20-APR-21 09:35 MICH-13.0	L2578719-2 Surface Water 20-APR-21 12:30 MICH-33.8	L2578719-3 Surface Water 20-APR-21 13:35 AND1	L2578719-4 Surface Water 20-APR-21 09:00 DUPLICATE	L2578719-5 Surface Water 20-APR-21 12:00 FIELD BLANK
Grouping	Analyte					
WATER	·					
Volatile Organic Compounds	Carbon disulfide (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Carbon tetrachloride (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Chlorobenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Dibromochloromethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Chloroethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Chloroform (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Chloromethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	2-Chlorotoluene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	4-Chlorotoluene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,2-Dibromo-3-chloropropane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Ethylene dibromide (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Dibromomethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	cis-1,4-Dichloro-2-butene (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	trans-1,4-Dichloro-2-butene (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	1,2-Dichlorobenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,3-Dichlorobenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,4-Dichlorobenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Dichlorodifluoromethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,1-Dichloroethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,2-Dichloroethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,1-Dichloroethene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	cis-1,2-Dichloroethene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	trans-1,2-Dichloroethene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Methylene chloride (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,2-Dichloropropane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,3-Dichloropropane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	2,2-Dichloropropane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,1-Dichloropropene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	cis-1,3-Dichloropropene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	trans-1,3-Dichloropropene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Ethanol (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Ethyl methacrylate (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Ethylbenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Hexachlorobutadiene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	2-Hexanone (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	lodomethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Isopropylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010

 $^{^{\}star}$ Please refer to the Reference Information section for an explanation of any qualifiers detected.

L2578719 CONTD.... PAGE 9 of 14 03-MAY-21 08:07 (MT)

ALS ENVIRONMENTAL ANALYTICAL REPORT

Version: FINAL

	Sample ID Description Sampled Date Sampled Time Client ID	L2578719-6 Surface Water 20-APR-21 11:00 TRIP BLANK		
Grouping	Analyte			
WATER				
Volatile Organic Compounds	Carbon disulfide (mg/L)	<0.0010		
	Carbon tetrachloride (mg/L)	<0.00050		
	Chlorobenzene (mg/L)	<0.00050		
	Dibromochloromethane (mg/L)	<0.00050		
	Chloroethane (mg/L)	<0.0010		
	Chloroform (mg/L)	<0.00050		
	Chloromethane (mg/L)	<0.0010		
	2-Chlorotoluene (mg/L)	<0.0010		
	4-Chlorotoluene (mg/L)	<0.0010		
	1,2-Dibromo-3-chloropropane (mg/L)	<0.0010		
	Ethylene dibromide (mg/L)	<0.00050		
	Dibromomethane (mg/L)	<0.00050		
	cis-1,4-Dichloro-2-butene (mg/L)	<0.0050		
	trans-1,4-Dichloro-2-butene (mg/L)	<0.0050		
	1,2-Dichlorobenzene (mg/L)	<0.00050		
	1,3-Dichlorobenzene (mg/L)	<0.00050		
	1,4-Dichlorobenzene (mg/L)	<0.00050		
	Dichlorodifluoromethane (mg/L)	<0.00050		
	1,1-Dichloroethane (mg/L)	<0.00050		
	1,2-Dichloroethane (mg/L)	<0.0010		
	1,1-Dichloroethene (mg/L)	<0.00050		
	cis-1,2-Dichloroethene (mg/L)	<0.0010		
	trans-1,2-Dichloroethene (mg/L)	<0.00050		
	Methylene chloride (mg/L)	<0.0010		
	1,2-Dichloropropane (mg/L)	<0.00050		
	1,3-Dichloropropane (mg/L)	<0.0010		
	2,2-Dichloropropane (mg/L)	<0.0010		
	1,1-Dichloropropene (mg/L)	<0.0010		
	cis-1,3-Dichloropropene (mg/L)	<0.00050		
	trans-1,3-Dichloropropene (mg/L)	<0.0010		
	Ethanol (mg/L)	<0.20		
	Ethyl methacrylate (mg/L)	<0.0050		
	Ethylbenzene (mg/L)	<0.00050		
	Hexachlorobutadiene (mg/L)	<0.0010		
	2-Hexanone (mg/L)	<0.0050		
	Iodomethane (mg/L)	<0.0010		
	Isopropylbenzene (mg/L)	<0.0010		

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

L2578719 CONTD.... PAGE 10 of 14

03-MAY-21 08:07 (MT)

Version: FINAL

	Sample ID Description Sampled Date Sampled Time Client ID	L2578719-1 Surface Water 20-APR-21 09:35 MICH-13.0	L2578719-2 Surface Water 20-APR-21 12:30 MICH-33.8	L2578719-3 Surface Water 20-APR-21 13:35 AND1	L2578719-4 Surface Water 20-APR-21 09:00 DUPLICATE	L2578719-5 Surface Water 20-APR-21 12:00 FIELD BLANK
Grouping	Analyte					
WATER						
Volatile Organic Compounds	p-Isopropyltoluene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	4-Methyl-2-pentanone (MIBK) (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Methyl-t-butyl ether (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	n-Propylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Styrene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,1,1,2-Tetrachloroethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,1,2,2-Tetrachloroethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Tetrachloroethylene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Toluene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,2,3-Trichlorobenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,2,4-Trichlorobenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,3,5-Trichlorobenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,1,1-Trichloroethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,1,2-Trichloroethane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Trichloroethene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Trichlorofluoromethane (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,2,3-Trichloropropane (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	1,2,4-Trimethylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	1,3,5-Trimethylbenzene (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Vinyl chloride (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	o-Xylene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	m+p-Xylenes (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Xylenes (mg/L)	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071
	Surrogate: 4-Bromofluorobenzene (%)	109.2	112.6	109.5	112.5	106.8
	Surrogate: 3,4-Dichlorotoluene (%)	102.8	113.4	108.5	111.1	98.6
	Surrogate: 1,4-Difluorobenzene (%)	97.3	98.2	98.2	99.3	98.5
Hydrocarbons	EPH10-19 (ug/L)	<100	<100	<100	<100	<100
	EPH19-32 (ug/L)	<100	<100	<100	<100	<100
	Surrogate: 2-Bromobenzotrifluoride (%)	97.0	96.0	99.0	97.0	
	, ,	<100 97.0	<100 96.0	<100 99.0	<100 97.0	<100 98.0

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

L2578719 CONTD.... PAGE 11 of 14 03-MAY-21 08:07 (MT)

ALS ENVIRONMENTAL ANALYTICAL REPORT

Version: **FINAL** L2578719-6 Sample ID Description Surface Water 20-APR-21 Sampled Date 11:00 Sampled Time TRIP BLANK Client ID Grouping Analyte **WATER Volatile Organic** p-Isopropyltoluene (mg/L) < 0.0010 Compounds 4-Methyl-2-pentanone (MIBK) (mg/L) < 0.0050 Methyl-t-butyl ether (mg/L) < 0.00050 n-Propylbenzene (mg/L) < 0.0010 Styrene (mg/L) < 0.00050 1,1,1,2-Tetrachloroethane (mg/L) < 0.0010 1,1,2,2-Tetrachloroethane (mg/L) < 0.00050 Tetrachloroethylene (mg/L) < 0.00050 Toluene (mg/L) < 0.00050 1,2,3-Trichlorobenzene (mg/L) < 0.0010 1,2,4-Trichlorobenzene (mg/L) < 0.0010 1,3,5-Trichlorobenzene (mg/L) < 0.0010 1,1,1-Trichloroethane (mg/L) < 0.00050 1,1,2-Trichloroethane (mg/L) < 0.00050 Trichloroethene (mg/L) < 0.00050 Trichlorofluoromethane (mg/L) < 0.0010 1,2,3-Trichloropropane (mg/L) < 0.00050 1,2,4-Trimethylbenzene (mg/L) < 0.0010 1,3,5-Trimethylbenzene (mg/L) < 0.0010 Vinyl chloride (mg/L) < 0.00050 o-Xylene (mg/L) < 0.00050 m+p-Xylenes (mg/L) < 0.00050 Xylenes (mg/L) < 0.00071 Surrogate: 4-Bromofluorobenzene (%) 113.8 Surrogate: 3,4-Dichlorotoluene (%) 113.4 Surrogate: 1,4-Difluorobenzene (%) 99.2 EPH10-19 (ug/L) **Hydrocarbons** <100 EPH19-32 (ug/L) <100 Surrogate: 2-Bromobenzotrifluoride (%) 98.0

^{*} Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

L2578719 CONTD....

PAGE 12 of 14

03-MAY-21 08:07 (MT)

Version: FINAL

QC Samples with Qualifiers & Comments:

QC Type Description Parameter Qualifier Applies to Sample Number(s)

Qualifiers for Individual Parameters Listed:

Qualifier Description

RRV Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code Matrix Test Description Method Reference**

BE-D-L-CCMS-CL Water Diss. Be (low) in Water by CRC ICPMS APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

BE-T-L-CCMS-CL Water Total Be (Low) in Water by CRC ICPMS EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

BR-L-IC-N-CL Water Bromide in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

C-DIS-ORG-LOW-CL Water Dissolved Organic Carbon APHA 5310 B-Instrumental

This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

C-TOT-ORG-LOW-CL Water Total Organic Carbon

APHA 5310 TOTAL ORGANIC CARBON (TOC)

This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

CL-IC-N-CL Water Chloride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

COD-T-COL-CL Water Chemical Oxygen Demand (COD) APHA 5220 D Colorimetry

Samples are analyzed using the closed reflux colourimetric method

COLOUR-TRUE-CL Water Colour (True) by Spectrometer APHA 2120 Color

True Colour is measured spectrophotometrically by comparison to platinum-cobalt standards using the single wavelength method (450 - 465 nm) after filtration of sample through a 0.45 um filter. Colour measurements can be highly pH dependent, and apply to the pH of the sample as received (at time of testing), without pH adjustment. Concurrent measurement of sample pH is recommended.

EPH-L-ME-FID-CL Water EPH (C10-C19) & EPH (C19-C32) BC Lab manual

EPH is extracted from water using a hexane micro-extraction technique, with analysis by GC-FID, as per the BC Lab Manual. EPH results include PAHs and are therefore not equivalent to LEPH or HEPH.

F-IC-N-CL Water Fluoride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-CL Water Hardness APHA 2340 B

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

Reference Information

L2578719 CONTD....

PAGE 13 of 14

03-MAY-21 08:07 (MT)

Version: FINAL

HG-D-CVAA-CL Water Dissolved Mercury in Water by CVAAS APHA 3030B/EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction

with stannous chloride, and analyzed by CVAAS.

HG-T-CVAA-CL Water Total Mercury in Water by CVAAS EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-D-CCMS-CL Water Dissolved Metals in Water by CRC ICPMS APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-CL Water Total Metals in Water by CRC ICPMS EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MTBE-ADD-CL Water MTBE - additional to BTEX EPA 8260C/5021A

The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transferred into a gas chromatograph.

MTBE Target compound concentration is measured using mass spectrometry detection.

IH3-L-F-CL Water Ammonia, Total (as N) J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et

NO2-L-IC-N-CL Water Nitrite in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-L-IC-N-CL Water Nitrate in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-L-COL-CL Water Phosphorus (P)-Total APHA 4500-P PHOSPHORUS

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorus is determined colourimetrically

after persulphate digestion of the sample.

PH/EC/ALK-CL Water pH, Conductivity and Total Alkalinity APHA 4500H,2510,2320

All samples analyzed by this method for pH will have exceeded the 15 minute recommended hold time from time of sampling (field analysis is recommended for pH where highly accurate results are needed)

pH measurement is determined from the activity of the hydrogen ions using a hydrogen electrode and a reference electrode.

Alkalinity measurement is based on the sample's capacity to neutralize acid

Conductivity measurement is based on the sample's capacity to convey an electric current

PO4-DO-L-COL-CL Water Orthophosphate-Dissolved (as P) APHA 4500-P PHOSPHORUS

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.

SO4-IC-N-CL Water Sulfate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

SOLIDS-TDS-CL Water Total Dissolved Solids APHA 2540 C

A well-mixed sample is filtered through a glass fibre filter paper. The filtrate is then evaporated to dryness in a pre-weighed vial and dried at 180 – 2 °C.

The increase in vial weight represents the total dissolved solids (TDS).

TKN-L-F-CL Water Total Kjeldahl Nitrogen APHA 4500-NORG (TKN)

This analysis is carried out using procedures adapted from APHA Method 4500-Norg D. "Block Digestion and Flow Injection Analysis". Total Kjeldahl

Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection.

TSS-CL Water Total Suspended Solids APHA 2540 D-Gravimetric

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids

(TSS) are determined by filtering a sample through a glass fibre filter, and by drying the filter at 104 deg. C.

TURBIDITY-CL Water Turbidity APHA 2130 B-Nephelometer

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

VOC-HS-MS-CL Water VOCs in Water EPA 8260C/5021A

The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transferred into a gas chromatograph. VOC Target compound concentrations are measured using mass spectrometry detection.

Reference Information

L2578719 CONTD.... PAGE 14 of 14 03-MAY-21 08:07 (MT) Version: FINΔI

XYLENES-CALC-CL

Water

Sum of Xylene Isomer Concentrations

CALCULATION

Calculation of Total Xylenes

Total Xylenes is the sum of the concentrations of the ortho, meta, and para Xylene isomers. Results below detection limit (DL) are treated as zero. The DL for Total Xylenes is set to a value no less than the square root of the sum of the squares of the DLs of the individual Xylenes.

** 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

CL ALS ENVIRONMENTAL - CALGARY, ALBERTA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

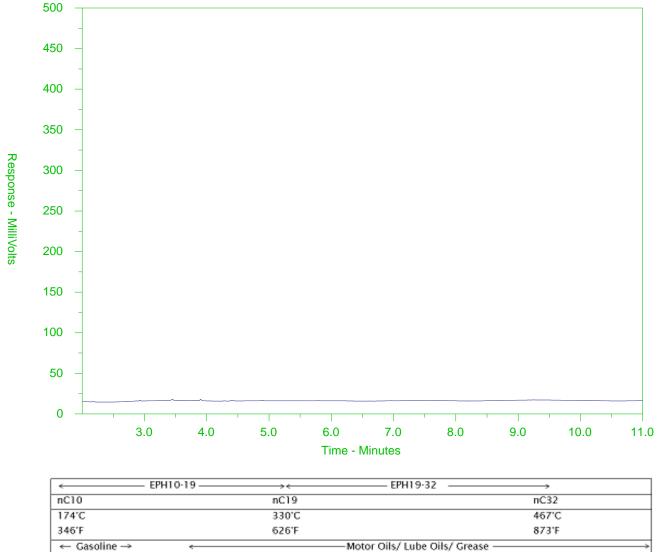
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

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.

ALS Sample ID: L2578719-1 Client Sample ID: MICH-13.0



The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may

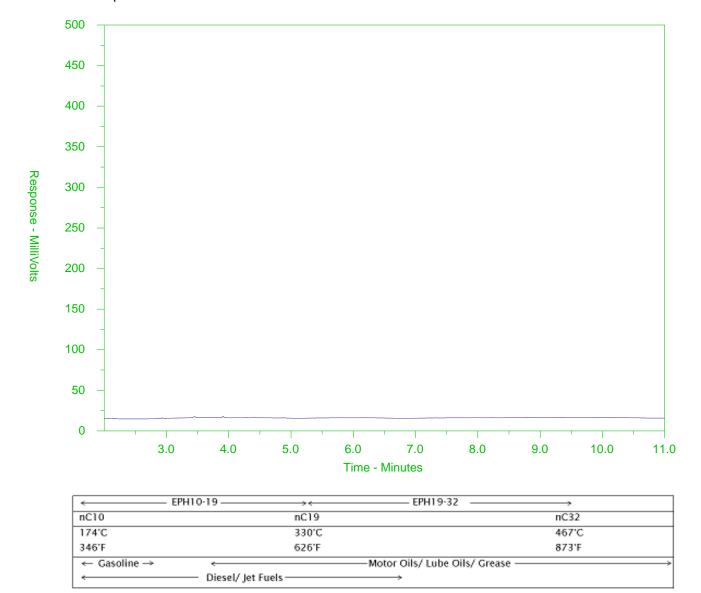
The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three 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.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

ALS Sample ID: L2578719-2 Client Sample ID: MICH-33.8



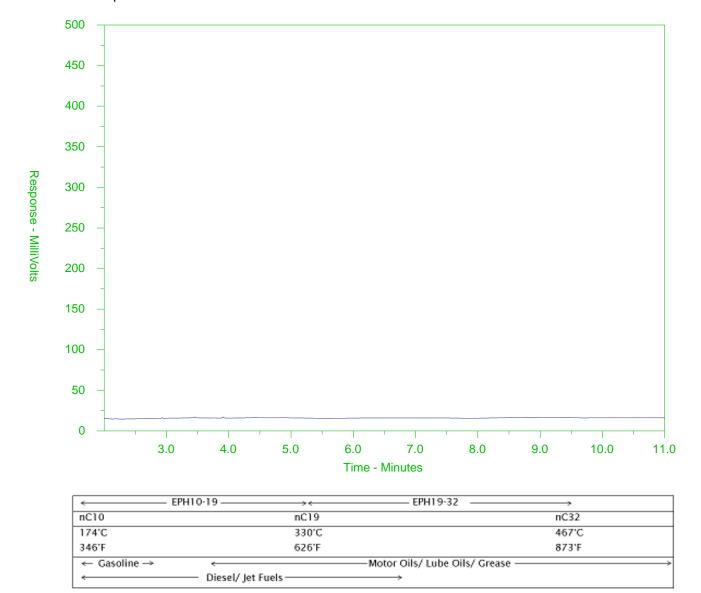
The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three 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.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

ALS Sample ID: L2578719-3 Client Sample ID: AND1



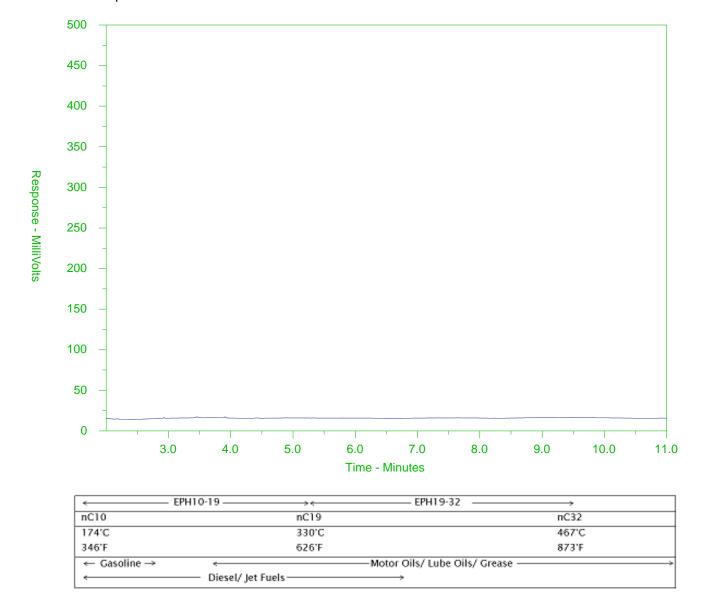
The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three 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.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

ALS Sample ID: L2578719-4 Client Sample ID: DUPLICATE



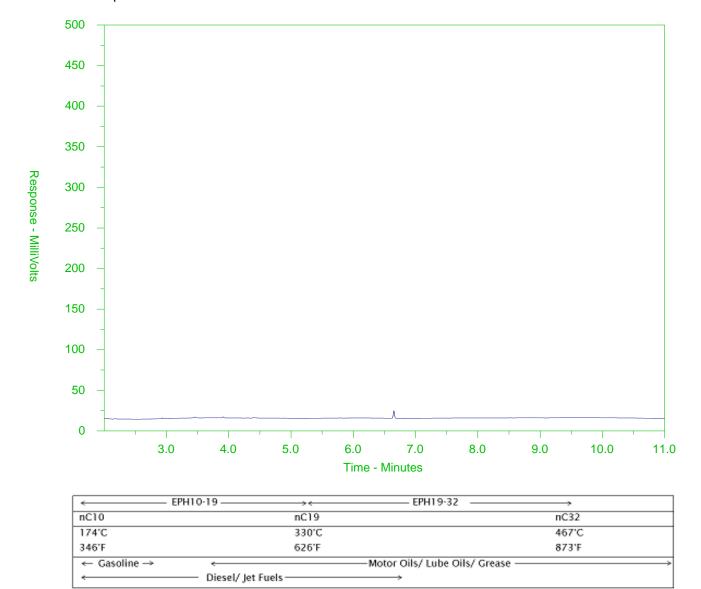
The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three 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.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

ALS Sample ID: L2578719-5 Client Sample ID: FIELD BLANK



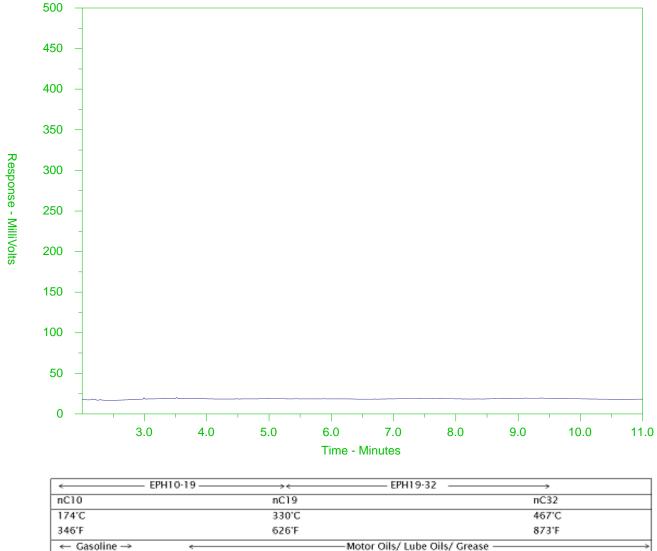
The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three 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.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

ALS Sample ID: L2578719-6 Client Sample ID: TRIP BLANK



The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may

The BC EPH 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 three 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.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.



Chain of Custody / Analytical Request Form Canada Toll Free: 1 800 668 9878 www.alsglobal.com

Report To Report Format / Distribution Servi North Coal Limited Company: □ Other Regular (Standard Turnaround Times - Business Days) Contact: O Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT ☑ Excel ⊒ PDF ☑ Digital □ Fax #5000 Hwy 43 Address: O Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT Email 1: barling@northcoal.ca Sparwood, BC, V0B 2G1 Email 2: mike.robinson@lotic.co O Same Day or Weekend Emergency - Contact ALS to Confirm TAT Phone: Fax: Email 3: mia.otto@lotic.co **Analysis Request** Invoice To Same as Report? ☑ Yes □ No Client / Project Information Please indicate below Filtered, Preserved or both (F, P, F/P) Hardcopy of Invoice with Report? Yes □ No 18CANA02 Job #: F/P Company: Same as Report PO / AFE: Same as Report Contact: LSD: Address: Same as Report Number of Containers Phone: Fax: d Q75701 Quote #: Lab Work Order # ALS Patryk Wojciak Sampler: Rick Smith (lab use only) Contact: General Sample Identification Sample Date Time EPH) Sample Type 200 # (This description will appear on the report) (dd-mmm-yy) (hh:mm) MICH-13.0 09:35 20-Apr-21 X Χ Χ Χ Surface Water Х Χ X Χ Х 11 MICH-33.8 X X Χ 20-Apr-21 12:30 Surface Water Х X Χ Χ X Х 11 AND1 20-Apr-21~ Surface Water Χ X Х Х X X Χ Χ Х 11 4 Duplicate 20-Apr-21 09:00 Χ Χ Χ X Χ Surface Water Х Χ X X 11 Field Blank 12:00 20-Apr-21 Surface Water Χ X X Χ Χ Х Х X 11 20-AR-21 Surfacewife JJ: 00 02 V Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details Both VOCs and DOC for duplicate not preserved. 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 provided on a separate Excel tab. Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses. SHIPMENT RELEASE (client use) SHIPMENT RECEPTION (lab use only) SHIPMENT VERIFICATION (lab use only) Released by: Received by: Date (dd-mmm-yy) Time (hh-mm) Temperature: Verified by: Date: Time: Observations: Yes / No? Mia Otto 9-Mar-21 16:00 If Yes add SIF