



Hamlet of Whale Cove
ATTN: BROCK JUNKIN
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Whale Cove MB X0C 0J0

Date Received: 10-AUG-12
Report Date: 28-AUG-12 15:11 (MT)
Version: FINAL

Client Phone: 867-896-9961

Certificate of Analysis

Lab Work Order #: L1192241
Project P.O. #: NOT SUBMITTED
Job Reference: WHALE COVE MONITORING PROGRAM
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1192241-1 WHA-2							
Sampled By: CLIENT on 08-AUG-12							
Matrix: WATER							
BTEX plus F1-F4							
BTX plus F1 by GCMS							
Benzene	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
Toluene	<0.0010		0.0010	mg/L		22-AUG-12	R2423128
Ethyl benzene	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
o-Xylene	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
m+p-Xylenes	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
Xylenes	<0.0015		0.0015	mg/L		22-AUG-12	R2423128
F1 (C6-C10)	<0.10		0.10	mg/L		22-AUG-12	R2423128
Surrogate: 4-Bromofluorobenzene (SS)	91.4		70-130	%		22-AUG-12	R2423128
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		28-AUG-12	
Total Hydrocarbons (C6-C50)	<0.44		0.44	mg/L		28-AUG-12	
F2-F4 PHC method							
F2 (C10-C16)	<0.25		0.25	mg/L	14-AUG-12	15-AUG-12	R2417438
F3 (C16-C34)	<0.25		0.25	mg/L	14-AUG-12	15-AUG-12	R2417438
F4 (C34-C50)	<0.25		0.25	mg/L	14-AUG-12	15-AUG-12	R2417438
Surrogate: 2-Bromobenzotrifluoride	87.3		65-135	%	14-AUG-12	15-AUG-12	R2417438
Miscellaneous Parameters							
Ammonia, Total (as N)	0.363		0.010	mg/L		20-AUG-12	R2420418
Biochemical Oxygen Demand	<6.0		6.0	mg/L	11-AUG-12	16-AUG-12	R2418540
BOD Carbonaceous	<6.0		6.0	mg/L	11-AUG-12	16-AUG-12	R2417882
Fecal Coliforms	4		3	MPN/100mL		14-AUG-12	R2417750
Oil and Grease, Total	<2.0		2.0	mg/L	14-AUG-12	14-AUG-12	R2416861
Phenols (4AAP)	<0.0010		0.0010	mg/L	20-AUG-12	20-AUG-12	R2420494
Phosphorus (P)-Total	0.072		0.010	mg/L		13-AUG-12	R2416973
Total Organic Carbon	11.6		1.0	mg/L		22-AUG-12	R2421376
Total Suspended Solids	<5.0		5.0	mg/L		13-AUG-12	R2416364
Routine Soluble + Metal scan							
Alkalinity							
Alkalinity, Total (as CaCO3)	175		20	mg/L		11-AUG-12	R2416051
Bicarbonate (HCO3)	198		24	mg/L		11-AUG-12	R2416051
Carbonate (CO3)	<12		12	mg/L		11-AUG-12	R2416051
Hydroxide (OH)	<6.8		6.8	mg/L		11-AUG-12	R2416051
Chloride by Ion Chromatography							
Chloride	64.6		0.50	mg/L		11-AUG-12	R2415646
Conductivity							
Conductivity	548		20	umhos/cm		11-AUG-12	R2416051
Hardness Calculated							
Hardness (as CaCO3)	228		0.30	mg/L		15-AUG-12	
Nitrate as N by Ion Chromatography							
Nitrate-N	0.054		0.050	mg/L		11-AUG-12	R2415646
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.071		0.071	mg/L		15-AUG-12	
Nitrite as N by Ion Chromatography							
Nitrite-N	<0.050		0.050	mg/L		11-AUG-12	R2415646
Sulfate by Ion Chromatography							
Sulfate	54.5		0.50	mg/L		11-AUG-12	R2415646
TDS calculated							
TDS (Calculated)	371		5.0	mg/L		15-AUG-12	
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.020		0.020	mg/L	14-AUG-12	14-AUG-12	R2417047

* 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
L1192241-1 WHA-2							
Sampled By: CLIENT on 08-AUG-12							
Matrix: WATER							
Total Metals by ICP-MS							
Antimony (Sb)-Total	0.0015		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Arsenic (As)-Total	0.0024		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Barium (Ba)-Total	0.0108		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Beryllium (Be)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Bismuth (Bi)-Total	<0.00050		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Boron (B)-Total	0.368		0.030	mg/L	14-AUG-12	14-AUG-12	R2417047
Cadmium (Cd)-Total	<0.00020		0.00020	mg/L	14-AUG-12	14-AUG-12	R2417047
Calcium (Ca)-Total	69.6		0.20	mg/L	14-AUG-12	14-AUG-12	R2417047
Cesium (Cs)-Total	<0.00050		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Chromium (Cr)-Total	<0.0020		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Cobalt (Co)-Total	0.00074		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Copper (Cu)-Total	0.0050		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Iron (Fe)-Total	1.37		0.10	mg/L	14-AUG-12	14-AUG-12	R2417047
Lead (Pb)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Lithium (Li)-Total	0.0074		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Magnesium (Mg)-Total	13.3		0.050	mg/L	14-AUG-12	14-AUG-12	R2417047
Manganese (Mn)-Total	0.232		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Molybdenum (Mo)-Total	0.0385		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Nickel (Ni)-Total	0.0054		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Phosphorus (P)-Total	<0.50		0.50	mg/L	14-AUG-12	14-AUG-12	R2417047
Potassium (K)-Total	9.12		0.10	mg/L	14-AUG-12	14-AUG-12	R2417047
Rubidium (Rb)-Total	0.00718		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Selenium (Se)-Total	<0.0050		0.0050	mg/L	14-AUG-12	14-AUG-12	R2417047
Silicon (Si)-Total	1.62		0.30	mg/L	14-AUG-12	14-AUG-12	R2417047
Silver (Ag)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Sodium (Na)-Total	55.5		0.050	mg/L	14-AUG-12	14-AUG-12	R2417047
Strontium (Sr)-Total	0.571		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Tellurium (Te)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Thallium (Tl)-Total	<0.0050		0.0050	mg/L	14-AUG-12	14-AUG-12	R2417047
Thorium (Th)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Tin (Sn)-Total	<0.00060		0.00060	mg/L	14-AUG-12	14-AUG-12	R2417047
Titanium (Ti)-Total	0.0016		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Tungsten (W)-Total	<0.0020		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Uranium (U)-Total	0.00067		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Vanadium (V)-Total	<0.0020		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Zinc (Zn)-Total	<0.020		0.020	mg/L	14-AUG-12	14-AUG-12	R2417047
Zirconium (Zr)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
pH							
pH	8.53		0.10	pH units		11-AUG-12	R2416051
L1192241-2 WHA-3							
Sampled By: CLIENT on 08-AUG-12							
Matrix: WATER							
BTEX plus F1-F4							
BTX plus F1 by GCMS							
Benzene	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
Toluene	<0.0010		0.0010	mg/L		22-AUG-12	R2423128
Ethyl benzene	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
o-Xylene	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
m+p-Xylenes	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
Xylenes	<0.0015		0.0015	mg/L		22-AUG-12	R2423128
F1 (C6-C10)	<0.10		0.10	mg/L		22-AUG-12	R2423128

* 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
L1192241-2 WHA-3							
Sampled By: CLIENT on 08-AUG-12							
Matrix: WATER							
BTX plus F1 by GCMS							
Surrogate: 4-Bromofluorobenzene (SS)	113.0		70-130	%		22-AUG-12	R2423128
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		28-AUG-12	
Total Hydrocarbons (C6-C50)	<0.44		0.44	mg/L		28-AUG-12	
F2-F4 PHC method							
F2 (C10-C16)	<0.25		0.25	mg/L	21-AUG-12	22-AUG-12	R2422213
F3 (C16-C34)	<0.25		0.25	mg/L	21-AUG-12	22-AUG-12	R2422213
F4 (C34-C50)	<0.25		0.25	mg/L	21-AUG-12	22-AUG-12	R2422213
Surrogate: 2-Bromobenzotrifluoride	89.5		65-135	%	21-AUG-12	22-AUG-12	R2422213
Miscellaneous Parameters							
Ammonia, Total (as N)	6.6	DLA	1.0	mg/L		22-AUG-12	R2421165
Biochemical Oxygen Demand	<6.0		6.0	mg/L	11-AUG-12	16-AUG-12	R2418540
BOD Carbonaceous	<6.0		6.0	mg/L	11-AUG-12	16-AUG-12	R2417882
Fecal Coliforms	4300		3	MPN/100mL		14-AUG-12	R2417750
Oil and Grease, Total	<2.0		2.0	mg/L	14-AUG-12	14-AUG-12	R2416861
Phenols (4AAP)	<0.0010		0.0010	mg/L	20-AUG-12	20-AUG-12	R2420494
Phosphorus (P)-Total	4.53		0.010	mg/L		13-AUG-12	R2416973
Total Organic Carbon	22.4		1.0	mg/L		22-AUG-12	R2421376
Total Suspended Solids	<5.0		5.0	mg/L		13-AUG-12	R2416364
Routine Soluble + Metal scan							
Alkalinity							
Alkalinity, Total (as CaCO3)	130		20	mg/L		11-AUG-12	R2416051
Bicarbonate (HCO3)	159		24	mg/L		11-AUG-12	R2416051
Carbonate (CO3)	<12		12	mg/L		11-AUG-12	R2416051
Hydroxide (OH)	<6.8		6.8	mg/L		11-AUG-12	R2416051
Chloride by Ion Chromatography							
Chloride	78.9		0.50	mg/L		11-AUG-12	R2415646
Conductivity							
Conductivity	541		20	umhos/cm		11-AUG-12	R2416051
Hardness Calculated							
Hardness (as CaCO3)	85.4		0.30	mg/L		15-AUG-12	
Nitrate as N by Ion Chromatography							
Nitrate-N	0.385		0.050	mg/L		11-AUG-12	R2415646
Nitrate+Nitrite							
Nitrate and Nitrite as N	0.566		0.071	mg/L		15-AUG-12	
Nitrite as N by Ion Chromatography							
Nitrite-N	0.181		0.050	mg/L		11-AUG-12	R2415646
Sulfate by Ion Chromatography							
Sulfate	19.1		0.50	mg/L		11-AUG-12	R2415646
TDS calculated							
TDS (Calculated)	293		5.0	mg/L		15-AUG-12	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.089		0.020	mg/L	14-AUG-12	14-AUG-12	R2417047
Antimony (Sb)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Arsenic (As)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Barium (Ba)-Total	0.00233		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Beryllium (Be)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Bismuth (Bi)-Total	<0.00050		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Boron (B)-Total	0.118		0.030	mg/L	14-AUG-12	14-AUG-12	R2417047
Cadmium (Cd)-Total	<0.00020		0.00020	mg/L	14-AUG-12	14-AUG-12	R2417047
Calcium (Ca)-Total	24.3		0.20	mg/L	14-AUG-12	14-AUG-12	R2417047

* 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
L1192241-2 WHA-3							
Sampled By: CLIENT on 08-AUG-12							
Matrix: WATER							
Total Metals by ICP-MS							
Cesium (Cs)-Total	<0.00050		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Chromium (Cr)-Total	<0.0020		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Cobalt (Co)-Total	<0.00050		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Copper (Cu)-Total	0.0106		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Iron (Fe)-Total	0.11		0.10	mg/L	14-AUG-12	14-AUG-12	R2417047
Lead (Pb)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Lithium (Li)-Total	<0.0020		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Magnesium (Mg)-Total	6.01		0.050	mg/L	14-AUG-12	14-AUG-12	R2417047
Manganese (Mn)-Total	0.0651		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Molybdenum (Mo)-Total	0.00061		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Nickel (Ni)-Total	0.0021		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Phosphorus (P)-Total	4.57		0.50	mg/L	14-AUG-12	14-AUG-12	R2417047
Potassium (K)-Total	16.7		0.10	mg/L	14-AUG-12	14-AUG-12	R2417047
Rubidium (Rb)-Total	0.0178		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Selenium (Se)-Total	<0.0050		0.0050	mg/L	14-AUG-12	14-AUG-12	R2417047
Silicon (Si)-Total	2.37		0.30	mg/L	14-AUG-12	14-AUG-12	R2417047
Silver (Ag)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Sodium (Na)-Total	70.2		0.050	mg/L	14-AUG-12	14-AUG-12	R2417047
Strontium (Sr)-Total	0.107		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Tellurium (Te)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Thallium (Tl)-Total	<0.0050		0.0050	mg/L	14-AUG-12	14-AUG-12	R2417047
Thorium (Th)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Tin (Sn)-Total	<0.00060		0.00060	mg/L	14-AUG-12	14-AUG-12	R2417047
Titanium (Ti)-Total	0.0028		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Tungsten (W)-Total	<0.0020		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Uranium (U)-Total	<0.00050		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Vanadium (V)-Total	<0.0020		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Zinc (Zn)-Total	<0.020		0.020	mg/L	14-AUG-12	14-AUG-12	R2417047
Zirconium (Zr)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
pH							
pH	7.95		0.10	pH units		11-AUG-12	R2416051
L1192241-3 WHA-4							
Sampled By: CLIENT on 08-AUG-12							
Matrix: WATER							
BTEX plus F1-F4							
BTX plus F1 by GCMS							
Benzene	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
Toluene	<0.0010		0.0010	mg/L		22-AUG-12	R2423128
Ethyl benzene	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
o-Xylene	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
m+p-Xylenes	<0.00050		0.00050	mg/L		22-AUG-12	R2423128
Xylenes	<0.0015		0.0015	mg/L		22-AUG-12	R2423128
F1 (C6-C10)	<0.10		0.10	mg/L		22-AUG-12	R2423128
Surrogate: 4-Bromofluorobenzene (SS)	86.5		70-130	%		22-AUG-12	R2423128
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		28-AUG-12	
F2-Naphth	<0.25		0.25	mg/L		28-AUG-12	
F3-PAH	<0.25		0.25	mg/L		28-AUG-12	
Total Hydrocarbons (C6-C50)	<0.44		0.44	mg/L		28-AUG-12	
F2-F4 PHC method							
F2 (C10-C16)	<0.25		0.25	mg/L	16-AUG-12	17-AUG-12	R2419760

* 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
L1192241-3 WHA-4							
Sampled By: CLIENT on 08-AUG-12							
Matrix: WATER							
F2-F4 PHC method							
F3 (C16-C34)	<0.25		0.25	mg/L	16-AUG-12	17-AUG-12	R2419760
F4 (C34-C50)	<0.25		0.25	mg/L	16-AUG-12	17-AUG-12	R2419760
Surrogate: 2-Bromobenzotrifluoride	82.1		65-135	%	16-AUG-12	17-AUG-12	R2419760
Miscellaneous Parameters							
Ammonia, Total (as N)	0.044		0.010	mg/L		20-AUG-12	R2420418
Biochemical Oxygen Demand	<6.0		6.0	mg/L	11-AUG-12	16-AUG-12	R2418540
BOD Carbonaceous	<6.0		6.0	mg/L	11-AUG-12	16-AUG-12	R2417882
Fecal Coliforms	<3		3	MPN/100mL		14-AUG-12	R2417750
Oil and Grease, Total	<2.0		2.0	mg/L	14-AUG-12	14-AUG-12	R2416861
Phenols (4AAP)	<0.0010		0.0010	mg/L	20-AUG-12	20-AUG-12	R2420494
Phosphorus (P)-Total	0.751		0.010	mg/L		13-AUG-12	R2416973
Total Organic Carbon	15.2		1.0	mg/L		22-AUG-12	R2421376
Total Suspended Solids	<5.0		5.0	mg/L		13-AUG-12	R2416364
Polyaromatic Hydrocarbons (PAHs)							
1-Methyl Naphthalene	<0.000020		0.000020	mg/L	16-AUG-12	20-AUG-12	R2420032
2-Methyl Naphthalene	<0.000020		0.000020	mg/L	16-AUG-12	20-AUG-12	R2420032
Acenaphthene	<0.000020		0.000020	mg/L	16-AUG-12	20-AUG-12	R2420032
Acenaphthylene	<0.000020		0.000020	mg/L	16-AUG-12	20-AUG-12	R2420032
Anthracene	<0.000010		0.000010	mg/L	16-AUG-12	20-AUG-12	R2420032
Acridine	<0.000020		0.000020	mg/L	16-AUG-12	20-AUG-12	R2420032
Benzo(a)anthracene	<0.000010		0.000010	mg/L	16-AUG-12	20-AUG-12	R2420032
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	16-AUG-12	20-AUG-12	R2420032
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	16-AUG-12	20-AUG-12	R2420032
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	16-AUG-12	20-AUG-12	R2420032
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	16-AUG-12	20-AUG-12	R2420032
Chrysene	<0.000020		0.000020	mg/L	16-AUG-12	20-AUG-12	R2420032
Dibenzo(a,h)anthracene	<0.0000050		0.0000050	mg/L	16-AUG-12	20-AUG-12	R2420032
Fluoranthene	<0.000020		0.000020	mg/L	16-AUG-12	20-AUG-12	R2420032
Fluorene	<0.000020		0.000020	mg/L	16-AUG-12	20-AUG-12	R2420032
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	16-AUG-12	20-AUG-12	R2420032
Naphthalene	<0.000050		0.000050	mg/L	16-AUG-12	20-AUG-12	R2420032
Phenanthrene	<0.000050		0.000050	mg/L	16-AUG-12	20-AUG-12	R2420032
Pyrene	<0.000010		0.000010	mg/L	16-AUG-12	20-AUG-12	R2420032
Quinoline	<0.000020		0.000020	mg/L	16-AUG-12	20-AUG-12	R2420032
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	16-AUG-12	20-AUG-12	R2420032
Surrogate: Acenaphthene d10	81.8		50-150	%	16-AUG-12	20-AUG-12	R2420032
Surrogate: Acridine d9	95.2		50-150	%	16-AUG-12	20-AUG-12	R2420032
Surrogate: Chrysene d12	80.7		50-150	%	16-AUG-12	20-AUG-12	R2420032
Surrogate: Naphthalene d8	63.5		50-150	%	16-AUG-12	20-AUG-12	R2420032
Surrogate: Phenanthrene d10	91.4		50-150	%	16-AUG-12	20-AUG-12	R2420032
Routine Soluble + Metal scan							
Alkalinity							
Alkalinity, Total (as CaCO3)	194		20	mg/L		11-AUG-12	R2416051
Bicarbonate (HCO3)	157		24	mg/L		11-AUG-12	R2416051
Carbonate (CO3)	39		12	mg/L		11-AUG-12	R2416051
Hydroxide (OH)	<6.8		6.8	mg/L		11-AUG-12	R2416051
Chloride by Ion Chromatography							
Chloride	85.9		0.50	mg/L		11-AUG-12	R2415646
Conductivity							
Conductivity	547		20	umhos/cm		11-AUG-12	R2416051
Hardness Calculated							

* 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
L1192241-3 WHA-4							
Sampled By: CLIENT on 08-AUG-12							
Matrix: WATER							
Hardness Calculated							
Hardness (as CaCO ₃)	170		0.30	mg/L		15-AUG-12	
Nitrate as N by Ion Chromatography							
Nitrate-N	<0.050		0.050	mg/L		11-AUG-12	R2415646
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.071		0.071	mg/L		15-AUG-12	
Nitrite as N by Ion Chromatography							
Nitrite-N	<0.050		0.050	mg/L		11-AUG-12	R2415646
Sulfate by Ion Chromatography							
Sulfate	6.97		0.50	mg/L		11-AUG-12	R2415646
TDS calculated							
TDS (Calculated)	366		5.0	mg/L		15-AUG-12	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.024		0.020	mg/L	14-AUG-12	14-AUG-12	R2417047
Antimony (Sb)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Arsenic (As)-Total	0.0065		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Barium (Ba)-Total	0.00706		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Beryllium (Be)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Bismuth (Bi)-Total	<0.00050		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Boron (B)-Total	0.150		0.030	mg/L	14-AUG-12	14-AUG-12	R2417047
Cadmium (Cd)-Total	<0.00020		0.00020	mg/L	14-AUG-12	14-AUG-12	R2417047
Calcium (Ca)-Total	56.4		0.20	mg/L	14-AUG-12	14-AUG-12	R2417047
Cesium (Cs)-Total	<0.00050		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Chromium (Cr)-Total	<0.0020		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Cobalt (Co)-Total	0.00055		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Copper (Cu)-Total	0.0053		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Iron (Fe)-Total	<0.10		0.10	mg/L	14-AUG-12	14-AUG-12	R2417047
Lead (Pb)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Lithium (Li)-Total	0.0036		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Magnesium (Mg)-Total	7.13		0.050	mg/L	14-AUG-12	14-AUG-12	R2417047
Manganese (Mn)-Total	0.0348		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Molybdenum (Mo)-Total	0.00089		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Nickel (Ni)-Total	0.0041		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Phosphorus (P)-Total	0.82		0.50	mg/L	14-AUG-12	14-AUG-12	R2417047
Potassium (K)-Total	7.65		0.10	mg/L	14-AUG-12	14-AUG-12	R2417047
Rubidium (Rb)-Total	0.00557		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Selenium (Se)-Total	<0.0050		0.0050	mg/L	14-AUG-12	14-AUG-12	R2417047
Silicon (Si)-Total	0.96		0.30	mg/L	14-AUG-12	14-AUG-12	R2417047
Silver (Ag)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Sodium (Na)-Total	85.4		0.050	mg/L	14-AUG-12	14-AUG-12	R2417047
Strontium (Sr)-Total	0.307		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Tellurium (Te)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Thallium (Tl)-Total	<0.0050		0.0050	mg/L	14-AUG-12	14-AUG-12	R2417047
Thorium (Th)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Tin (Sn)-Total	<0.00060		0.00060	mg/L	14-AUG-12	14-AUG-12	R2417047
Titanium (Ti)-Total	0.0019		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
Tungsten (W)-Total	<0.0020		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Uranium (U)-Total	0.00079		0.00050	mg/L	14-AUG-12	14-AUG-12	R2417047
Vanadium (V)-Total	<0.0020		0.0020	mg/L	14-AUG-12	14-AUG-12	R2417047
Zinc (Zn)-Total	<0.020		0.020	mg/L	14-AUG-12	14-AUG-12	R2417047
Zirconium (Zr)-Total	<0.0010		0.0010	mg/L	14-AUG-12	14-AUG-12	R2417047
pH							
pH	9.40		0.10	pH units		14-AUG-12	R2416968

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

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

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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ALK-TOT-WP	Water	Alkalinity	APHA 2320B
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Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.

BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
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A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.

BOD-WP	Water	Biochemical Oxygen Demand (BOD)	APHA 5210 B
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The sample is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at the beginning and end of incubation provides a measure of biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. Surface waters have a DL of 1 mg/L. Effluents are diluted according to their history and will have a sample DL of 6 mg/L or greater, depending on the dilutions used.

BTEXS+F1-HSMS-WP	Water	BTX plus F1 by GCMS	EPA SW846 8260B REV 2 SEPT 1994
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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. Target compound concentrations are measured using mass spectrometry detection.

C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
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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-WP	Water	Chloride by Ion Chromatography	EPA 300.1 (modified)
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Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

EC-WP	Water	Conductivity	APHA 2510B
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Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
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ETL-SOLIDS-CALC-WP	Water	TDS calculated	CALCULATION
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F1-F4-CALC-WP	Water	CCME Total Hydrocarbons	CCME CWS-PHC DEC-2000 - PUB# 1310-L
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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.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
<p>3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.</p> <p>4. Linearity of diesel or motor oil response within 15% throughout the calibration range.</p>			
F2-F4-WS-WP	Water	F2-F4 PHC method	EPA 3510/8000
<p>This is the determination of the Petroleum Hydrocarbon fractions in water (F2, F3 and F4). A water sample volume of 200 mL in a 250 mL glass amber bottle is shaken with 10 mL hexane for two hours on a wrist action shaker, and then sonicated for 5 minutes. After extraction, the solvent layer is drawn off and analyzed against C10, C16 and C34 standards on a gas chromatograph equipped with a flame ionization detector.</p>			
FC-MPN-WP	Water	Fecal Coliform	APHA 9221A-C
<p>The Most Probable Number (MPN) method is based on the Multiple Tube Fermentation technique. The results of examination of replicate tubes and dilutions of a sample are reported after confirmations specific to total coliform, fecal coliform and E. coli are performed. Results are reported in MPN/100 mL for water and MPN/gram for food and solid samples.</p>			
IONBALANCE-OP05-WP	Water	Ion Balance Calculation No Reporting	APHA 1030E
MET-T-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-T
<p>Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p>			
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
<p>Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.</p>			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N by Ion Chromatography	EPA 300.1 (modified)
<p>Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.</p>			
NO3-IC-WP	Water	Nitrate as N by Ion Chromatography	EPA 300.1 (modified)
<p>Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.</p>			
OGG-TOT-WT	Water	Oil and Grease, Total	APHA 5520 B
<p>Sample is extracted with hexane, extract is then evaporated and the residue is weighed to determine total oil and grease.</p>			
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
<p>This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.</p>			
PAH,PANH-WP	Water	Polyaromatic Hydrocarbons (PAHs)	EPA SW 846/8270-GC/MS
<p>Water is spiked with a surrogate spike mix and extracted using solvent extraction techniques. Analysis is performed by GC/MS in the selected ion monitoring (SIM) mode.</p>			
PH-WP	Water	pH	APHA 4500H
<p>The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.</p>			
PHENOLS-4AAP-WT	Water	Phenol (4AAP)	EPA 9066
<p>An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a red complex which is measured colorimetrically.</p>			
SO4-IC-WP	Water	Sulfate by Ion Chromatography	EPA 300.1 (modified)
<p>Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.</p>			
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540 D (modified)
<p>Total suspended solids in aqueous matrices is determined gravimetrically after drying the residue at 103 - 105 C.</p>			

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

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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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
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

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.

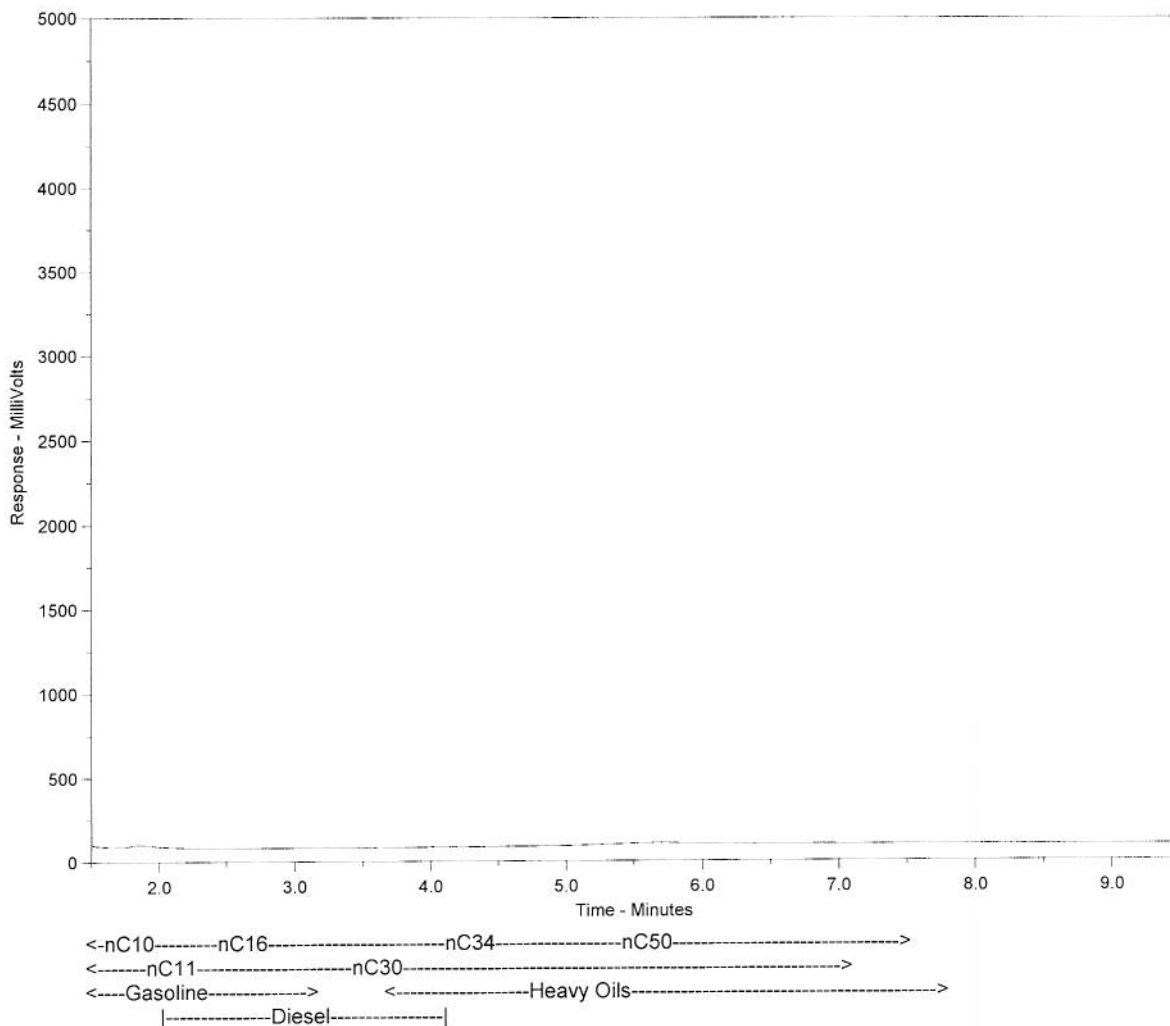
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Hydrocarbon Distribution Report



ALS Sample ID: L1192241-1
Client ID: WHA-2



The Canada Wide Standard Hydrocarbon Distribution Report 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 as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

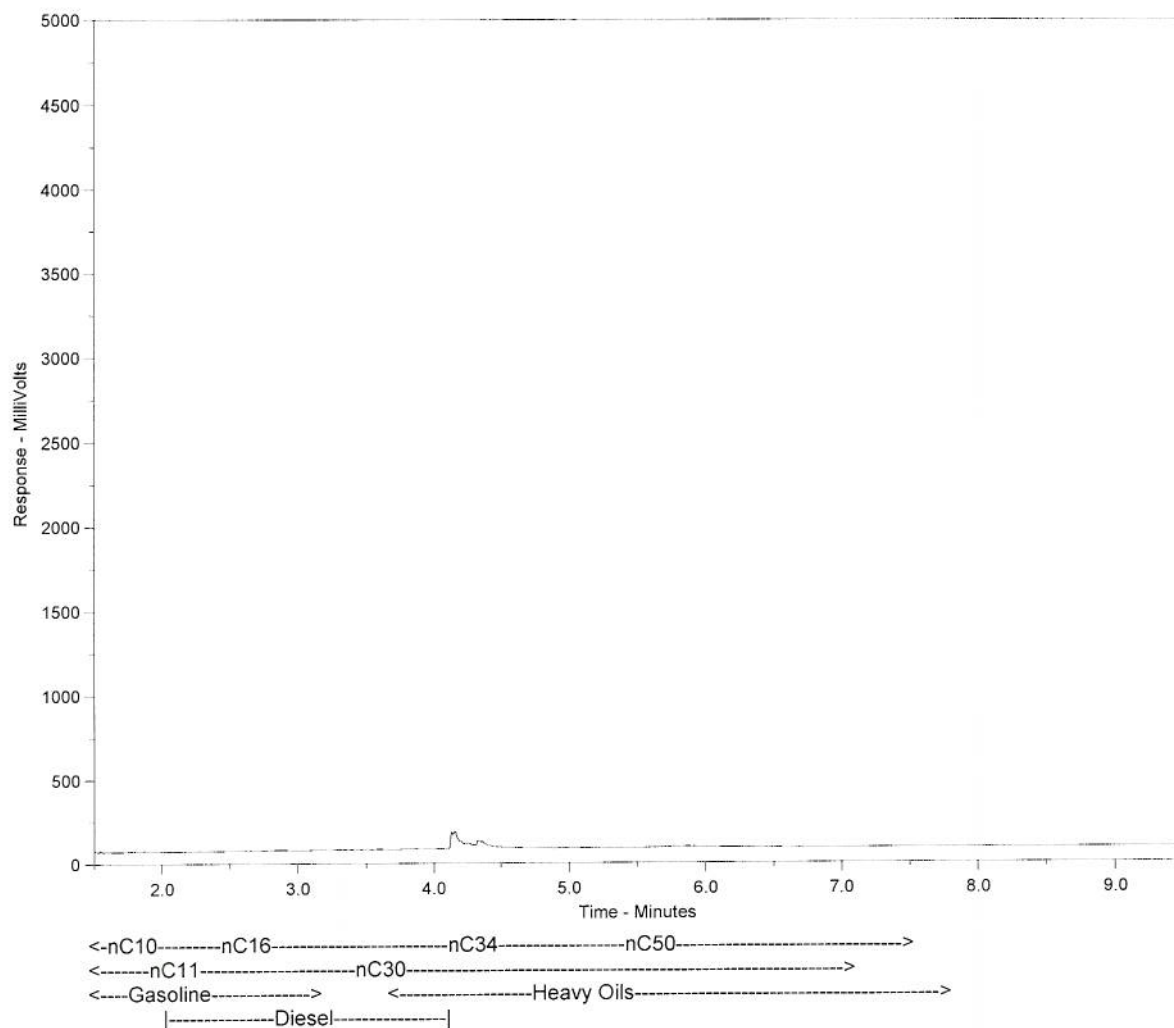
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

Hydrocarbon Distribution Report



ALS Sample ID: L1192241-2
Client ID: WHA-3



The Canada Wide Standard Hydrocarbon Distribution Report 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 as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

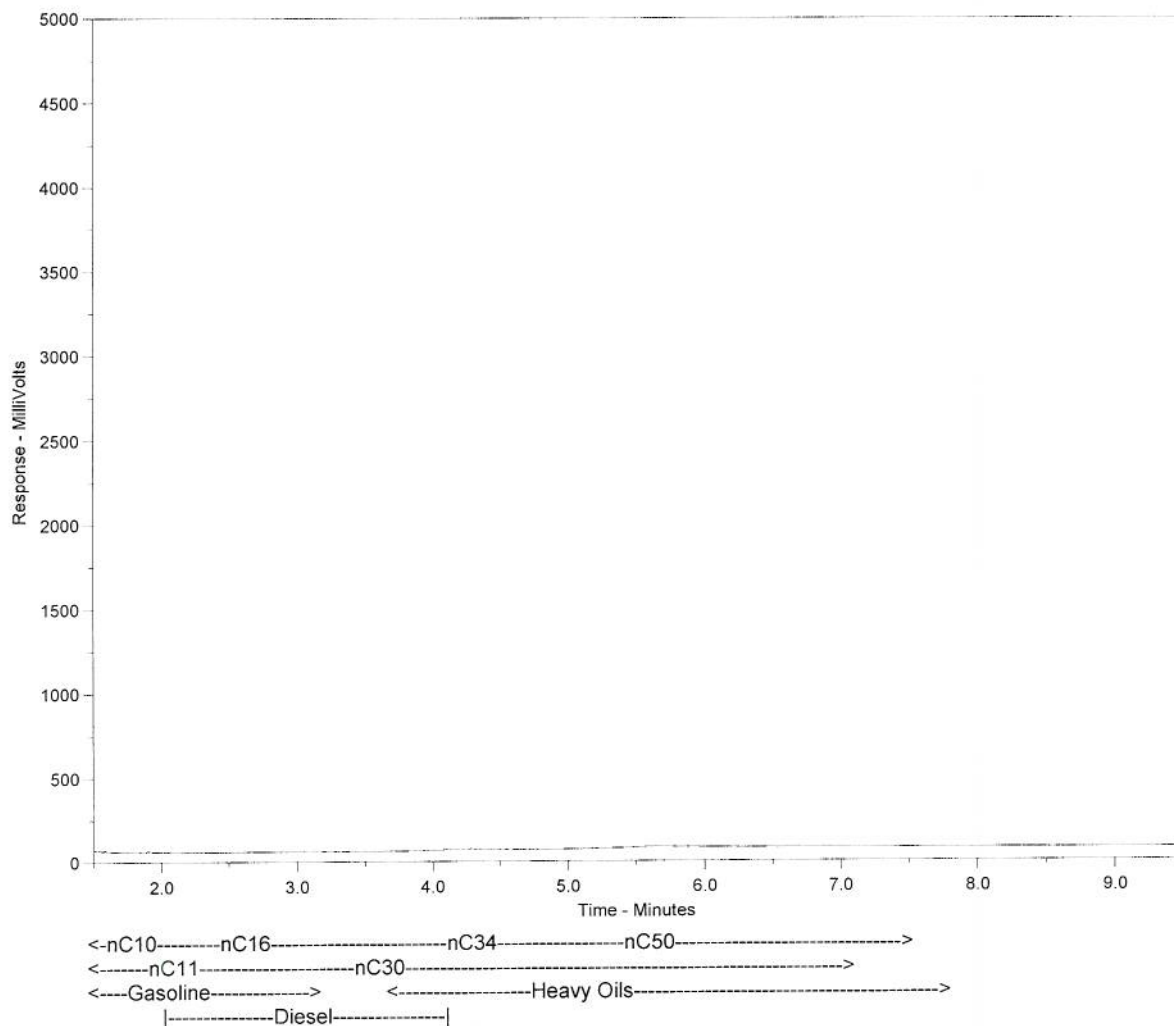
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

Hydrocarbon Distribution Report



ALS Sample ID: L1192241-3
Client ID: WHA-4



The Canada Wide Standard Hydrocarbon Distribution Report 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 as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

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 with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

[illegible]

HAMLET OF WHALE COVE
POST OFFICE BOX 120
WHALE COVE, NUNAVUT, X0C 0J0
Telephone: (867) 896-9961 ~ Fax: (867) 896-9



Water Licence Sampling Field Log

Name of Sampler(s): Wayne Putulik

Date of Sampling: August 8, 2012

Time of Sampling: Late afternoon

Monitoring Station Number: WHA-2

GPS Coordinates: N 62°10' 176" W 92°35' 665" (bermed pond at dump)

Weather Conditions: Sunny

Samples:

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | 1 L Routine |
| <input checked="" type="checkbox"/> | 500 mL BOD |
| <input checked="" type="checkbox"/> | 250 mL Metals + Pres |
| <input checked="" type="checkbox"/> | 250 mL Nutrients + Pres |
| <input checked="" type="checkbox"/> | 125 mL Sterile Bacteria Bottle ¹ |
| <input checked="" type="checkbox"/> | 250 mL Amber Phenols + Pres |
| <input checked="" type="checkbox"/> | 1 L Amber Oil & Grease + Pres ¹ |
| <input checked="" type="checkbox"/> | 100 mL Amber TOC + Pres |

- | | |
|-------------------------------------|--|
| <input type="checkbox"/> | 1 L Amber PAH + Pres ¹ Don't have |
| <input checked="" type="checkbox"/> | 3 x 40 mL BTEX, F1 vials + Pres ¹ |
| <input checked="" type="checkbox"/> | 2 x 250 mL Amber F2-F4 + Pres ¹ only! |

Other:

Other Notes: (any unusual conditions, any deviation from standard procedures, etc.)

Missing one 250 and one 1,000 ml bottles for PAH/EPH

Footnote 1) Do not rinse this bottle but rinse all others in the sampling pond

HAMLET OF WHALE COVE
POST OFFICE BOX 120
WHALE COVE, NUNAVUT, X0C 0J0
Telephone: (867) 896-9961 ~ Fax: (867) 896-9100



Water Licence Sampling Field Log

Name of Sampler(s): Wayne Putulik

Date of Sampling: August 8, 2012

Time of Sampling: Late afternoon

Monitoring Station Number: WHA-3

GPS Coordinates: N 62°10' 112" W 92°35' 496" (lagoon on south side)

Weather Conditions: Sunny

Samples:

- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | 1 L Routine |
| <input checked="" type="checkbox"/> | 500 mL BOD |
| <input checked="" type="checkbox"/> | 250 mL Metals + Pres |
| <input checked="" type="checkbox"/> | 250 mL Nutrients + Pres |
| <input checked="" type="checkbox"/> | 125 mL Sterile Bacteria Bottle¹ |
| <input checked="" type="checkbox"/> | 250 mL Amber Phenols + Pres |
| <input checked="" type="checkbox"/> | 1 L Amber Oil & Grease + Pres¹ |
| <input checked="" type="checkbox"/> | 100 mL Amber TOC + Pres |

- | | |
|-------------------------------------|--|
| <input type="checkbox"/> | 1 L Amber PAH + Pres¹ Don't have |
| <input checked="" type="checkbox"/> | 3 x 40 mL BTEX, F1 vials + Pres¹ |
| <input checked="" type="checkbox"/> | 2 x 250 mL Amber F2-F4 + Pres¹ |

Other:

<input type="text"/>
<input type="text"/>
<input type="text"/>

Other Notes: (any unusual conditions, any deviation from standard procedures, etc.)

Missing one 1,000ml bottle of PAH.EPH

Footnote 1) Do not rinse this bottle but rinse all others in the sampling pond

HAMLET OF WHALE COVE

POST OFFICE BOX 120

WHALE COVE, NUNAVUT, X0C 0J0

Telephone: (867) 896-9961 ~ Fax: (867) 896-9100



L1192241-COFC

Water Licence Sampling Field L

Name of Sampler(s): Wayne Putulik

Date of Sampling: August 8, 2012

Time of Sampling: Late afternoon

Monitoring Station Number: WHA-4

GPS Coordinates: N 62°10' 552" W 92°35'712" (below lagoon in water course)

Weather Conditions: Sunny

Samples:

- ☒ 1 L Routine
- ☒ 500 mL BOD
- ☒ 250 mL Metals + Pres
- ☒ 250 mL Nutrients + Pres
- ☒ **125 mL Sterile Bacteria Bottle¹**
- ☒ 250 mL Amber Phenols + Pres
- ☒ **1 L Amber Oil & Grease + Pres¹**
- ☒ 100 mL Amber TOC + Pres

- ☒ **1 L Amber PAH + Pres¹**
- ☒ **3 x 40 mL BTEX, F1 vials + Pres¹**
- ☒ **2 x 250 mL Amber F2-F4 + Pres¹**

Other:

Other Notes: (any unusual conditions, any deviation from standard procedures, etc.)

Footnote 1) Do not rinse this bottle but rinse all others in the sampling pond