



EDI ENVIRONMENTAL DYNAMICS INC.
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2195 - 2nd Ave
Whitehorse YT Y1A 3T8

Date Received: 09-NOV-16
Report Date: 18-NOV-16 16:28 (MT)
Version: FINAL

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1856464
Project P.O. #: NOT SUBMITTED
Job Reference: MOUNT NANSEN 16-Y-0089
C of C Numbers:
Legal Site Desc:

Can Dang
Senior Account Manager

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ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1856464-1 Water 07-NOV-16 15:50 WQ-DC-U	L1856464-2 Water 08-NOV-16 13:30 WQ-VC-U	L1856464-3 Water 08-NOV-16 16:30 WQ-DX+105	L1856464-4 Water 08-NOV-16 08:50 WQ-DC-B	L1856464-5 Water 08-NOV-16 16:45 WQ-DX+105-R
Grouping	Analyte				
WATER					
Physical Tests	Colour, True (CU)				
	Conductivity (uS/cm)	1380	214	1110	2190
	Hardness (as CaCO3) (mg/L)	748	102	637	1440
	pH (pH)	7.66	7.88	7.64	7.63
	Total Suspended Solids (mg/L)	9.7	<3.0	4.3	5.5
	Total Dissolved Solids (mg/L)				
	TDS (Calculated) (mg/L)	1030	114	789	1870
	Turbidity (NTU)				800
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	258	95.6	274	346
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<1.0	<1.0	<1.0	<1.0
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<1.0	<1.0	<1.0	<1.0
	Alkalinity, Total (as CaCO3) (mg/L)	258	95.6	274	346
	Ammonia, Total (as N) (mg/L)	3.36	<0.0050	0.0207	0.516
	Bromide (Br) (mg/L)	<0.25 ^{DLDS}	<0.050	<0.25 ^{DLDS}	<1.0 ^{DLDS}
	Chloride (Cl) (mg/L)	<2.5 ^{DLDS}	<0.50	<2.5 ^{DLDS}	<10 ^{DLDS}
	Fluoride (F) (mg/L)	0.11	0.050	0.17	<0.40 ^{DLDS}
	Nitrate (as N) (mg/L)	0.418	0.149	<0.025 ^{DLDS}	<0.10 ^{DLDS}
	Nitrite (as N) (mg/L)	0.0193	<0.0010	<0.0050 ^{DLDS}	<0.020 ^{DLDS}
	Sulfate (SO4) (mg/L)	564	18.3	395	1150
	Anion Sum (meq/L)	16.9	2.30	13.7	30.9
	Cation Sum (meq/L)	16.8	2.16	13.1	29.9
	Cation - Anion Balance (%)	-0.4	-3.3	-2.3	-1.8
Cyanides	Cyanide, Weak Acid Diss (mg/L)	0.0246	<0.0050	<0.0050	<0.0050
	Cyanide, Total (mg/L)	0.0314	<0.0050	<0.0050	<0.0050
	Cyanate (mg/L)	<2.0 ^{DLIS}	<0.20	<0.20	<0.20
	Thiocyanate (SCN) (mg/L)	1.57	<0.50	<0.50	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)	0.0203	0.0328	0.0414	0.0037
	Antimony (Sb)-Total (mg/L)	0.00032	<0.00010	0.00907	0.00217
	Arsenic (As)-Total (mg/L)	0.0408	0.00031	0.0601	0.00498
	Barium (Ba)-Total (mg/L)	0.0612	0.0738	0.0117	0.0670
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Total (mg/L)	0.036	<0.010	<0.010	0.020
	Cadmium (Cd)-Total (mg/L)	0.000129	0.0000178	0.00239	0.0000701
	Calcium (Ca)-Total (mg/L)	224	27.7	176	350
	Chromium (Cr)-Total (mg/L)	0.00035	0.00012	<0.00010	0.00013
	Cobalt (Co)-Total (mg/L)	0.00506	<0.00010	0.00084	0.00103

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1856464-6	L1856464-7	L1856464-9	L1856464-10	L1856464-11
		Description	Water	Water	Water	Water	Water
		Sampled Date	08-NOV-16	07-NOV-16	07-NOV-16	07-NOV-16	07-NOV-16
		Sampled Time	13:05	15:20	17:55	16:00	10:25
		Client ID	WQ-VC-DBC	WQ-DC-R	WQ-TP	WQ-DC-U-R	WQ-VC-UMN
Grouping	Analyte						
WATER							
Physical Tests	Colour, True (CU)						
	Conductivity (uS/cm)	214	1080	1610	1370	233	
	Hardness (as CaCO3) (mg/L)	105	610	986	791	114	
	pH (pH)	7.74	7.36	7.95	7.67	7.78	
	Total Suspended Solids (mg/L)	<3.0	8.7	3.2	11.1	<3.0	
	Total Dissolved Solids (mg/L)						
	TDS (Calculated) (mg/L)	117	789	1360	1050	128	
	Turbidity (NTU)						
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	96.7	218	149	262	96.7	
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	
	Alkalinity, Total (as CaCO3) (mg/L)	96.7	218	149	262	96.7	
	Ammonia, Total (as N) (mg/L)	<0.0050	1.09	0.0319	3.31	<0.0050	
	Bromide (Br) (mg/L)	<0.050	<0.25 ^{DLDS}	<0.50 ^{DLDS}	<0.25 ^{DLDS}	<0.050	
	Chloride (Cl) (mg/L)	<0.50	<2.5 ^{DLDS}	<5.0 ^{DLDS}	<2.5 ^{DLDS}	<0.50	
	Fluoride (F) (mg/L)	0.050	<0.10 ^{DLDS}	0.28	0.11	0.052	
	Nitrate (as N) (mg/L)	0.148	0.254	<0.050 ^{DLDS}	0.420	0.136	
	Nitrite (as N) (mg/L)	<0.0010	0.0112	<0.010 ^{DLDS}	0.0194	<0.0010	
	Sulfate (SO4) (mg/L)	18.6	411	876	565	26.9	
	Anion Sum (meq/L)	2.33	12.9	21.2	17.0	2.50	
	Cation Sum (meq/L)	2.22	13.6	21.1	17.6	2.42	
	Cation - Anion Balance (%)	-2.4	2.5	-0.3	1.7	-1.7	
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	0.0081	<0.0050	
	Cyanide, Total (mg/L)	<0.0050	<0.0050	<0.0050	0.0170	<0.0050	
	Cyanate (mg/L)	<0.20	<0.20	0.28	<0.20	<0.20	
	Thiocyanate (SCN) (mg/L)	<0.50	0.55	<0.50	1.56	<0.50	
Total Metals	Aluminum (Al)-Total (mg/L)	0.0176	0.0175	0.0212	0.0216	0.0324	
	Antimony (Sb)-Total (mg/L)	<0.00010	0.00089	0.0398	0.00033	0.00020	
	Arsenic (As)-Total (mg/L)	0.00029	0.0456	0.129	0.0403	0.00086	
	Barium (Ba)-Total (mg/L)	0.0724	0.0672	0.0172	0.0606	0.0709	
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	0.000083	<0.000050	<0.000050	
	Boron (B)-Total (mg/L)	<0.010	0.017	0.084	0.035	<0.010	
	Cadmium (Cd)-Total (mg/L)	0.0000173	0.0000670	0.000571	0.000127	0.0000243	
	Calcium (Ca)-Total (mg/L)	27.9	159	309	219	29.2	
	Chromium (Cr)-Total (mg/L)	<0.00010	0.00040	0.00014	0.00036	0.00012	
	Cobalt (Co)-Total (mg/L)	<0.00010	0.00267	0.00051	0.00491	<0.00010	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1856464-12	L1856464-13	L1856464-14	L1856464-15
		Description	Water	Water	Water	Water
		Sampled Date	07-NOV-16	07-NOV-16	09-NOV-16	09-NOV-16
		Sampled Time	13:55	17:30	09:45	09:45
		Client ID	WQ-VC-R+150	WQ-SEEP	WQ-FIELD BLANK	WQ-PW
Grouping	Analyte					
WATER						
Physical Tests	Colour, True (CU)					<5.0
	Conductivity (uS/cm)	222	1550	<2.0	352	
	Hardness (as CaCO3) (mg/L)	109	881	<0.50	189	HTC
	pH (pH)	7.62	7.15	5.43	7.85	
	Total Suspended Solids (mg/L)	<3.0	29.1	<3.0		
	Total Dissolved Solids (mg/L)				203	
	TDS (Calculated) (mg/L)	123	1200	<1.0		
	Turbidity (NTU)					0.15
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	92.4	285	<1.0		
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<1.0	<1.0	<1.0		
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<1.0	<1.0	<1.0		
	Alkalinity, Total (as CaCO3) (mg/L)	92.4	285	<1.0	161	
	Ammonia, Total (as N) (mg/L)	0.0084	4.35	<0.0050		
	Bromide (Br) (mg/L)	<0.050	<0.25 ^{DLDS}	<0.050		
	Chloride (Cl) (mg/L)	<0.50	<2.5 ^{DLDS}	<0.50	<0.50	
	Fluoride (F) (mg/L)	0.052	<0.10 ^{DLDS}	<0.020	0.103	
	Nitrate (as N) (mg/L)	0.127	1.04	<0.0050	0.122	
	Nitrite (as N) (mg/L)	<0.0010	0.0317	<0.0010	<0.0010	
	Sulfate (SO4) (mg/L)	25.4	646	<0.30	30.6	
	Anion Sum (meq/L)	2.39	19.2	<0.10		
	Cation Sum (meq/L)	2.32	20.4	<0.10		
	Cation - Anion Balance (%)	-1.4	2.9	0.0		
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	0.0123	<0.0050	
Cyanide, Total (mg/L)		<0.0050	0.0504	<0.0050		
Cyanate (mg/L)		<0.20	<0.20	<0.20		
Thiocyanate (SCN) (mg/L)		<0.50	5.13	<0.50		
Total Metals	Aluminum (Al)-Total (mg/L)	0.0356	0.0134	<0.0030	<0.010	
	Antimony (Sb)-Total (mg/L)	0.00023	0.00051	<0.00010	<0.00050	
	Arsenic (As)-Total (mg/L)	0.00092	0.0516	<0.00010	0.00040	
	Barium (Ba)-Total (mg/L)	0.0718	0.0555	<0.000050	0.082	
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	<0.000020		
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050		
	Boron (B)-Total (mg/L)	<0.010	0.049	<0.010	<0.10	
	Cadmium (Cd)-Total (mg/L)	0.0000215	0.000497	<0.0000050	<0.00020	
	Calcium (Ca)-Total (mg/L)	28.5	252	<0.050	42.3	
	Chromium (Cr)-Total (mg/L)	0.00013	0.00051	<0.00010	<0.0020	
	Cobalt (Co)-Total (mg/L)	0.00011	0.00767	<0.00010		

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1856464-1 Water 07-NOV-16 15:50 WQ-DC-U	L1856464-2 Water 08-NOV-16 13:30 WQ-VC-U	L1856464-3 Water 08-NOV-16 16:30 WQ-DX+105	L1856464-4 Water 08-NOV-16 08:50 WQ-DC-B	L1856464-5 Water 08-NOV-16 16:45 WQ-DX+105-R
Grouping	Analyte					
WATER						
Total Metals	Copper (Cu)-Total (mg/L)	0.00122	0.00098	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	4.38	0.068	0.560	2.50	0.414
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	0.000355	<0.000050	0.000237
	Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	0.0089	0.0056	0.0086
	Magnesium (Mg)-Total (mg/L)	60.9	10.3	60.9	168	60.4
	Manganese (Mn)-Total (mg/L)	4.82	0.0607	1.17	1.83	1.14
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	0.000809	0.000420	0.000377	0.000354	0.000367
	Nickel (Ni)-Total (mg/L)	0.00211	<0.00050	0.00156	0.00135	0.00160
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	5.36	0.64	3.63	5.39	3.56
	Selenium (Se)-Total (mg/L)	0.000215	0.000058	<0.000050	0.000079	<0.000050
	Silicon (Si)-Total (mg/L)	7.15	6.23	6.83	9.94	6.77
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	28.1	2.78	5.27	18.1	5.28
	Strontium (Sr)-Total (mg/L)	0.688	0.324	0.428	1.26	0.429
	Sulfur (S)-Total (mg/L)	212	6.53	143	451	144
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	0.000107	<0.000010	0.000095
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	0.00126	0.00101	0.00177	<0.00030	0.00220
	Uranium (U)-Total (mg/L)	0.00162	0.000744	0.00434	0.00438	0.00442
	Vanadium (V)-Total (mg/L)	0.00104	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)	0.0157	<0.0030	0.770	0.0360	0.765
	Zirconium (Zr)-Total (mg/L)	0.00034	<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)	0.0084	0.0062	<0.0010	0.0023	<0.0010
	Antimony (Sb)-Dissolved (mg/L)	0.00030	<0.00010	0.00876	0.00210	0.00901
	Arsenic (As)-Dissolved (mg/L)	0.0377	0.00026	0.0177	0.00475	0.0183
	Barium (Ba)-Dissolved (mg/L)	0.0582	0.0674	0.0107	0.0642	0.0118
	Beryllium (Be)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000040 ^{DLA}	<0.000020
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.00010 ^{DLA}	<0.000050
	Boron (B)-Dissolved (mg/L)	0.032	<0.010	<0.010	<0.020 ^{DLA}	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000123	0.0000128	0.000627	0.000079	0.000601
	Calcium (Ca)-Dissolved (mg/L)	210	25.7	165	327	174
	Chromium (Cr)-Dissolved (mg/L)	0.00019	<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00460	<0.00010	0.00074	0.00098	0.00075

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1856464-6	L1856464-7	L1856464-9	L1856464-10	L1856464-11
		Description	Water	Water	Water	Water	Water
		Sampled Date	08-NOV-16	07-NOV-16	07-NOV-16	07-NOV-16	07-NOV-16
		Sampled Time	13:05	15:20	17:55	16:00	10:25
		Client ID	WQ-VC-DBC	WQ-DC-R	WQ-TP	WQ-DC-U-R	WQ-VC-UMN
Grouping	Analyte						
WATER							
Total Metals	Copper (Cu)-Total (mg/L)		0.00095	0.00082	0.0255	0.00121	0.00107
	Iron (Fe)-Total (mg/L)		0.042	4.08	0.228	4.30	0.067
	Lead (Pb)-Total (mg/L)		<0.000050	0.000144	0.00686	0.000055	0.000176
	Lithium (Li)-Total (mg/L)		<0.0010	<0.0010	0.0113	<0.0010	<0.0010
	Magnesium (Mg)-Total (mg/L)		9.99	51.6	60.2	60.1	10.4
	Manganese (Mn)-Total (mg/L)		0.0550	2.61	0.132	4.70	0.0601
	Mercury (Hg)-Total (mg/L)		<0.0000050	<0.0000050	0.0000078	<0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)		0.000426	0.000377	0.00147	0.000804	0.000401
	Nickel (Ni)-Total (mg/L)		<0.00050	0.00137	0.00096	0.00215	<0.00050
	Phosphorus (P)-Total (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)		0.63	4.82	21.1	5.30	0.68
	Selenium (Se)-Total (mg/L)		0.000058	0.000115	0.000065	0.000184	<0.000050
	Silicon (Si)-Total (mg/L)		6.00	8.02	4.55	7.04	5.94
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	0.000178	0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		2.69	21.1	19.7	27.6	2.98
	Strontium (Sr)-Total (mg/L)		0.326	0.527	0.849	0.691	0.320
	Sulfur (S)-Total (mg/L)		6.57	151	330	210	8.85
	Thallium (Tl)-Total (mg/L)		<0.000010	<0.000010	0.000156	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		0.00043	0.00079	<0.00030	0.00154	0.00093
	Uranium (U)-Total (mg/L)		0.000737	0.000986	0.00142	0.00164	0.000707
	Vanadium (V)-Total (mg/L)		<0.00050	0.00073	<0.00050	0.00106	<0.00050
	Zinc (Zn)-Total (mg/L)		<0.0030	0.0119	0.0733	0.0158	<0.0030
	Zirconium (Zr)-Total (mg/L)		<0.00030	0.00030	<0.00030	0.00034	<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)		0.0065	0.0140	0.0024	0.0075	0.0063
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	0.00089	0.0392	0.00033	0.00018
	Arsenic (As)-Dissolved (mg/L)		0.00024	0.0454	0.104	0.0390	0.00068
	Barium (Ba)-Dissolved (mg/L)		0.0700	0.0751	0.0178	0.0646	0.0713
	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	0.018	0.083	0.037	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.0000192	0.0000558	0.000450	0.000107	0.0000194
	Calcium (Ca)-Dissolved (mg/L)		26.9	162	301	226	29.4
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	0.00032	<0.00010	0.00028	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		<0.00010	0.00239	0.00047	0.00431	<0.00010

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1856464-12 Water 07-NOV-16 13:55 WQ-VC-R+150	L1856464-13 Water 07-NOV-16 17:30 WQ-SEEP	L1856464-14 Water 09-NOV-16 09:45 WQ-FIELD BLANK	L1856464-15 Water 09-NOV-16 09:45 WQ-PW
Grouping	Analyte				
WATER					
Total Metals	Copper (Cu)-Total (mg/L)	0.00115	0.00326	<0.00050	<0.0010
	Iron (Fe)-Total (mg/L)	0.140	11.5	<0.010	<0.030
	Lead (Pb)-Total (mg/L)	0.000169	<0.000050	<0.000050	0.00064
	Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	<0.0010	
	Magnesium (Mg)-Total (mg/L)	9.99	57.7	<0.10	20.2
	Manganese (Mn)-Total (mg/L)	0.0567	5.80	<0.00010	<0.0020
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.00020
	Molybdenum (Mo)-Total (mg/L)	0.000403	0.00107	<0.000050	
	Nickel (Ni)-Total (mg/L)	<0.00050	0.00351	<0.00050	
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	
	Potassium (K)-Total (mg/L)	0.70	6.40	<0.10	0.94
	Selenium (Se)-Total (mg/L)	0.000054	0.000289	<0.000050	<0.0010
	Silicon (Si)-Total (mg/L)	6.09	7.57	<0.050	
	Silver (Ag)-Total (mg/L)	<0.000010	0.000026	<0.000010	
	Sodium (Na)-Total (mg/L)	2.98	35.8	0.085	4.8
	Strontium (Sr)-Total (mg/L)	0.298	0.739	<0.00020	
	Sulfur (S)-Total (mg/L)	8.52	239	<0.50	
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	<0.000010	
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Total (mg/L)	0.00087	0.00087	<0.00030	
	Uranium (U)-Total (mg/L)	0.000642	0.00233	<0.000010	0.00169
	Vanadium (V)-Total (mg/L)	<0.00050	0.00201	<0.00050	
	Zinc (Zn)-Total (mg/L)	<0.0030	0.0554	<0.0030	<0.050
	Zirconium (Zr)-Total (mg/L)	<0.00030	0.00065	<0.00030	
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	
	Aluminum (Al)-Dissolved (mg/L)	0.0104	0.0096	<0.0010	
	Antimony (Sb)-Dissolved (mg/L)	0.00021	0.00054	<0.00010	
	Arsenic (As)-Dissolved (mg/L)	0.00076	0.0487	<0.00010	
	Barium (Ba)-Dissolved (mg/L)	0.0708	0.0604	<0.000050	
	Beryllium (Be)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	
	Boron (B)-Dissolved (mg/L)	<0.010	0.050	<0.010	
	Cadmium (Cd)-Dissolved (mg/L)	0.0000203	0.000433	<0.0000050	
	Calcium (Ca)-Dissolved (mg/L)	28.4	262	<0.050	
	Chromium (Cr)-Dissolved (mg/L)	0.00012	0.00042	<0.00010	
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	0.00708	<0.00010	

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1856464-1 Water 07-NOV-16 15:50 WQ-DC-U	L1856464-2 Water 08-NOV-16 13:30 WQ-VC-U	L1856464-3 Water 08-NOV-16 16:30 WQ-DX+105	L1856464-4 Water 08-NOV-16 08:50 WQ-DC-B	L1856464-5 Water 08-NOV-16 16:45 WQ-DX+105-R	
Grouping	Analyte					
WATER						
Dissolved Metals	Copper (Cu)-Dissolved (mg/L)	0.00095	0.00082	<0.00020	<0.00040 ^{DLA}	<0.00020
	Iron (Fe)-Dissolved (mg/L)	3.68	0.018	0.122	1.82	0.126
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.00010 ^{DLA}	<0.000050
	Lithium (Li)-Dissolved (mg/L)	<0.0010	<0.0010	0.0083	0.0054	0.0088
	Magnesium (Mg)-Dissolved (mg/L)	54.4	9.07	54.4	152	56.8
	Manganese (Mn)-Dissolved (mg/L)	4.38	0.0512	1.05	1.75	1.09
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.000688	0.000372	0.000316	0.00030	0.000330
	Nickel (Ni)-Dissolved (mg/L)	0.00192	<0.00050	0.00144	0.0012	0.00138
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.10 ^{DLA}	<0.050
	Potassium (K)-Dissolved (mg/L)	4.96	0.59	3.42	5.11	3.74
	Selenium (Se)-Dissolved (mg/L)	0.000204	<0.000050	<0.000050	<0.00010 ^{DLA}	<0.000050
	Silicon (Si)-Dissolved (mg/L)	6.69	5.59	6.37	9.65	6.90
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000020 ^{DLA}	<0.000010
	Sodium (Na)-Dissolved (mg/L)	25.6	2.53	4.82	16.7	5.02
	Strontium (Sr)-Dissolved (mg/L)	0.652	0.302	0.401	1.18	0.410
	Sulfur (S)-Dissolved (mg/L)	184	5.19	126	405	137
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	0.000079	<0.000020 ^{DLA}	0.000079
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	0.00057	<0.00030	<0.00030	<0.00060 ^{DLA}	<0.00030
	Uranium (U)-Dissolved (mg/L)	0.00150	0.000627	0.00391	0.00393	0.00397
	Vanadium (V)-Dissolved (mg/L)	0.00084	<0.00050	<0.00050	<0.0010 ^{DLA}	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	0.0150	<0.0010	0.714	0.0351	0.761
	Zirconium (Zr)-Dissolved (mg/L)	0.00032	<0.00030	<0.00030	<0.00060 ^{DLA}	<0.00030

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1856464-6	L1856464-7	L1856464-9	L1856464-10	L1856464-11
					Water	Water	Water	Water	Water
		08-NOV-16	13:05		08-NOV-16	07-NOV-16	07-NOV-16	07-NOV-16	07-NOV-16
					13:05	15:20	17:55	16:00	10:25
					WQ-VC-DBC	WQ-DC-R	WQ-TP	WQ-DC-U-R	WQ-VC-UMN
Grouping	Analyte								
WATER									
Dissolved Metals	Copper (Cu)-Dissolved (mg/L)	0.00085	0.00066	0.0208	0.00089	0.00094			
	Iron (Fe)-Dissolved (mg/L)	0.019	3.67	0.024	3.58	0.022			
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	0.000620	<0.000050	<0.000050			
	Lithium (Li)-Dissolved (mg/L)	<0.0010	<0.0010	0.0132	<0.0010	<0.0010			
	Magnesium (Mg)-Dissolved (mg/L)	9.08	49.8	56.6	54.8	9.74			
	Manganese (Mn)-Dissolved (mg/L)	0.0504	2.54	0.113	4.30	0.0545			
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050			
	Molybdenum (Mo)-Dissolved (mg/L)	0.000358	0.000330	0.00122	0.000687	0.000352			
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	0.00121	0.00081	0.00175	<0.00050			
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050			
	Potassium (K)-Dissolved (mg/L)	0.63	5.06	21.5	5.33	0.68			
	Selenium (Se)-Dissolved (mg/L)	0.000052	0.000140	0.000087	0.000179	<0.000050			
	Silicon (Si)-Dissolved (mg/L)	6.10	8.31	4.63	7.07	6.18			
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	0.000052	<0.000010	<0.000010			
	Sodium (Na)-Dissolved (mg/L)	2.62	20.6	18.9	25.5	3.00			
	Strontium (Sr)-Dissolved (mg/L)	0.313	0.485	0.754	0.630	0.314			
	Sulfur (S)-Dissolved (mg/L)	6.09	141	320	192	8.85			
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	0.000138	<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	0.00064	<0.00030	0.00058	<0.00030			
	Uranium (U)-Dissolved (mg/L)	0.000679	0.000897	0.00121	0.00144	0.000666			
	Vanadium (V)-Dissolved (mg/L)	<0.00050	0.00066	<0.00050	0.00084	<0.00050			
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	0.0121	0.0635	0.0152	<0.0010			
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00030	0.00033	<0.00030			

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1856464-12 Water 07-NOV-16 13:55 WQ-VC-R+150	L1856464-13 Water 07-NOV-16 17:30 WQ-SEEP	L1856464-14 Water 09-NOV-16 09:45 WQ-FIELD BLANK	L1856464-15 Water 09-NOV-16 09:45 WQ-PW
Grouping	Analyte				
WATER					
Dissolved Metals	Copper (Cu)-Dissolved (mg/L)	0.00100	0.00224	<0.00020	
	Iron (Fe)-Dissolved (mg/L)	0.055	10.3	<0.010	
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	
	Lithium (Li)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	
	Magnesium (Mg)-Dissolved (mg/L)	9.19	55.3	<0.10	
	Manganese (Mn)-Dissolved (mg/L)	0.0527	5.58	<0.00010	
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	
	Molybdenum (Mo)-Dissolved (mg/L)	0.000340	0.000874	<0.000050	
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	0.00303	<0.00050	
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	
	Potassium (K)-Dissolved (mg/L)	0.71	6.84	<0.10	
	Selenium (Se)-Dissolved (mg/L)	<0.000050	0.000292	<0.000050	
	Silicon (Si)-Dissolved (mg/L)	6.45	7.98	<0.050	
	Silver (Ag)-Dissolved (mg/L)	<0.000010	0.000011	<0.000010	
	Sodium (Na)-Dissolved (mg/L)	2.93	34.6	0.132 ^{RRV}	
	Strontium (Sr)-Dissolved (mg/L)	0.295	0.683	<0.00020	
	Sulfur (S)-Dissolved (mg/L)	8.56	229	<0.50	
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Dissolved (mg/L)	<0.00030	0.00086	<0.00030	
	Uranium (U)-Dissolved (mg/L)	0.000596	0.00210	<0.000010	
	Vanadium (V)-Dissolved (mg/L)	<0.00050	0.00176	<0.00050	
	Zinc (Zn)-Dissolved (mg/L)	0.0011	0.0541	0.0011 ^{RRV}	
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	0.00059	<0.00030	

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

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Aluminum (Al)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Boron (B)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Copper (Cu)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Selenium (Se)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1856464-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Arsenic (As)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Cobalt (Co)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Lithium (Li)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Potassium (K)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Silicon (Si)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Sulfur (S)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9
Matrix Spike	Thallium (Tl)-Total	MS-B	L1856464-1, -10, -2, -3, -4, -5, -6, -7, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
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Reference Information

DLA	Detection Limit adjusted for required dilution
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLIS	Detection Limit Adjusted: Insufficient Sample
HTC	Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	EPA 310.2
		This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.	
ALK-TITR-VA	Water	Alkalinity Species by Titration	APHA 2320 Alkalinity
		This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.	
BE-D-L-CCMS-VA	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-VA	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-VA	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.	
CL-IC-N-VA	Water	Chloride in Water by IC	EPA 300.1 (mod)
		Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.	
CN-CNO-WT	Water	Cyanate	APHA 4500-CN-L
		This analysis is carried out using procedures adapted from APHA method 4500-CN "Cyanide". Cyanate is determined by the Cyanate hydrolysis method using an ammonia selective electrode	
CN-SCN-VA	Water	Thiocyanate by Colour	APHA 4500-CN CYANIDE
		This analysis is carried out using procedures adapted from APHA Method 4500-CN- M "Thiocyanate" Thiocyanate is determined by the ferric nitrate colourimetric method.	
CN-T-CFA-VA	Water	Total Cyanide in water by CFA	ISO 14403:2002
		This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.	
CN-WAD-CFA-VA	Water	Weak Acid Diss. Cyanide in water by CFA	APHA 4500-CN CYANIDE
		This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.	
COLOUR-TRUE-VA	Water	Colour (True) by Spectrometer	BCMOE Colour Single Wavelength
		This analysis is carried out using procedures adapted from British Columbia Environmental Manual "Colour- Single Wavelength." Colour (True Colour) is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using the platinum-cobalt colourimetric method.	
		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.	
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
		This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.	
F-IC-N-VA	Water	Fluoride in Water by IC	EPA 300.1 (mod)
		Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.	

Reference Information

HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.			
HG-D-CVAA-VA	Water	Diss. Mercury in Water by CVAAS or CVAFS	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 or CVAFS.			
HG-T-CVAA-VA	Water	Total Mercury in Water by CVAAS or CVAFS	EPA 1631E (mod)
Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.			
HG-TOT-CVAFS-VA	Water	Total Hg in Water by CVAFS LOR=50ppt	EPA 1631E (mod)
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).			
IONBALANCE-VA	Water	Ion Balance Calculation	APHA 1030E
Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.			
Cation and Anion Sums are the total meq/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance is calculated as:			
Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]			
MET-D-CCMS-VA	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-VA	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.			
NH3-F-VA	Water	Ammonia in Water by Fluorescence	APHA 4500 NH3-NITROGEN (AMMONIA)
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 al.			
NH3-F-VA	Water	Ammonia in Water by Fluorescence	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 al.			
NO2-L-IC-N-VA	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-VA	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.			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
It is recommended that this analysis be conducted in the field.			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
It is recommended that this analysis be conducted in the field.			
SO4-IC-N-VA	Water	Sulfate in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			

Reference Information

TDS-CALC-VA Water TDS (Calculated) APHA 1030E (20TH EDITION)

This analysis is carried out using procedures adapted from APHA 1030E "Checking Correctness of Analyses".

The Total Dissolved Solids result is calculated from measured concentrations of anions and cations in the sample.

TDS-VA Water Total Dissolved Solids by Gravimetric APHA 2540 C - GRAVIMETRIC

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.

TSS-VA Water Total Suspended Solids by Gravimetric 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, TSS is determined by drying the filter at 104 degrees celsius.

Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.

TURBIDITY-VA Water Turbidity by Meter APHA 2130 Turbidity

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

** 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
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, 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.

Chain of Custody (COC) / Analytical Request Form



L1856464-COFC

COC Number: 14 -

Page 1 of 3

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To Company: EDI Contact: Lyndsay Doetzel Address: 2195 - 2nd Avenue Whitehorse, YT Y1A 3T8 Phone: 867-393-4882		Report Format / Distribution Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL) Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Criteria on Report - provide details below if box checked Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: ldoetzel@edynamics.com Email 2: Emilia.Hamm@gov.yk.ca Email 3: erik.pit@gov.yk.ca			Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests) R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days) P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge Specify Date Required for E2,E or P:																																																																																																																																																																																				
Invoice To Same as Report To <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No Copy of Invoice with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Company: EDI Contact: S Jenner		Invoice Distribution Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: sienner@edynamics.com Email 2: ldoetzel@edynamics.com			Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																																																																																																																																																																				
Project Information ALS Quote #: Q55559 Job #: MOUNT NANSEN 16-Y-0089 PO / AFE: LSD:		Oil and Gas Required Fields (client use) Approver ID: [blacked out] Cost Center: [blacked out] GL Account: [blacked out] Routing Code: Activity Code: Location:			<table border="1"> <tr> <td></td><td></td><td></td><td>P</td><td>P</td><td>P</td><td>P</td><td>P</td><td>P</td><td>F/P</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>ALX-PCT-VA</td><td>EC-PCT-VA</td><td>PH-PCT-VA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>ANIONS-ALL-IC-WR</td><td>TSS-MAN-WR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>CN-WAD-CFA-VA</td><td>CN-T-CFA-VA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>CN-CNO-WT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>CN-SCN-VA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>MH3-F-VA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>MET-T-BCMDG-VA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>MET-D-BCMDG-VA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>IONBALANC-VA</td><td>TDS-CALC-VA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>														P	P	P	P	P	P	F/P								ALX-PCT-VA	EC-PCT-VA	PH-PCT-VA															ANIONS-ALL-IC-WR	TSS-MAN-WR																CN-WAD-CFA-VA	CN-T-CFA-VA																CN-CNO-WT																	CN-SCN-VA																	MH3-F-VA																	MET-T-BCMDG-VA																	MET-D-BCMDG-VA																	IONBALANC-VA	TDS-CALC-VA															
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SHIPMENT RELEASE (client use) Released by: JM Date: Nov 9 Time: 13:40		INITIAL SHIPMENT RECEPTION (lab use only) Received by: [blacked out] Date: 9/16 Time: 11:34			FINAL SHIPMENT RECEPTION (lab use only) Received by: [blacked out] Date: 11/16 Time: 12:10																																																																																																																																																																																				

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
 WHITE - LABORATORY COPY YELLOW - CLIENT COPY
 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 COC form.



Report To		Report Format / Distribution			Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)																		
Company:	EDI	Select Report Format:	<input checked="" type="checkbox"/> PDF	<input checked="" type="checkbox"/> EXCEL	<input type="checkbox"/> EDO (DIGITAL)	R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days) P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge																	
Contact:	Lyndsay Doetzel	Quality Control (QC) Report with Report	<input type="checkbox"/> Yes <input type="checkbox"/> No			Specify Date Required for E2, E or P:																	
Address:	2195 - 2nd Avenue Whitehorse, YT Y1A 3T8	<input type="checkbox"/> Criteria on Report - provide details below if box checked																					
Phone:	867-393-4882	Select Distribution:	<input checked="" type="checkbox"/> EMAIL	<input type="checkbox"/> MAIL	<input type="checkbox"/> FAX																		
		Email 1 or Fax:	lidoetzel@edynamics.com																				
		Email 2:	Emilie.Hamm@gov.yk.ca																				
		Email 3:	erik.pit@gov.yk.ca																				
		Analysis Request																					
Invoice To	Same as Report To	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Invoice Distribution			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																	
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Company:	EDI	Email 1 or Fax: sjenner@edynamics.com																					
Contact:	S Jenner	Email 2: lidoetzel@edynamics.com																					
Project Information		Oil and Gas Required Fields (client use)																					
ALS Quote #:	Q55559	Approver ID:	Cost Center:																				
Job #:	MOUNT NANSEN 16-Y-0089	GL Account:	Routing Code:																				
PO / AFE:		Activity Code:	Location:																				
LSD:		ALS Contact: Craig Flaherty		Sampler:																			
ALS Lab Work Order # (lab use only)		Sample Identification and/or Coordinates (This description will appear on the report)			Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	AL-K-PCT-VA	EC-PCT-VA	PH-PCT-VA	ANIONS-ALL-IC-WR	TSS-MAN-WR	CN-WAD-CFA-VA	CN-T-CFA-VA	CN-CND-WT	CN-SCN-VA	NH3-F-VA	MET-T-BCMDG-VA	MET-D-BCMDG-VA	IONBALANC-VA	TDS-CALC-VA	Number of Containers	
ALS Sample # (lab use only)	WG-TP	07	-Nov-16	17:55	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9	
	WG-DC-U-F	07	-Nov-16	16:00	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9	
	WG-VC-UH-N	08	-Nov-16	10:25	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9	
	WG-VC-R+150	07	-Nov-16	13:55	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9	
	WG-SEEP	07	-Nov-16	17:30	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9	
	WG-Field BLANK	09	-Nov-16	09:45	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9	
			-Nov-16		Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9	

Short Holding Time
Rush Processing

Drinking Water (DW) Samples ¹ (client use)		Special Instructions / Specify Criteria to add on report (client Use)				SAMPLE CONDITION AS RECEIVED (lab use only)					
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No						Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/> Ice packs Yes <input type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/> Cooling Initiated <input type="checkbox"/>					
Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No						INITIAL COOLER TEMPERATURES °C: 5.0 1.5 FINAL COOLER TEMPERATURES °C: 1.0 4					
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT, RECEPTION (lab use only)				FINAL SHIPMENT, RECEPTION (lab use only)					
Released by: JM	Date: Nov 9	Time: 13:40	Received by: [Signature]	Date: Nov 9	Time: 13:45	Received by: [Signature]	Date: Nov 9	Time: 13:10			



Report To		Report Format / Distribution			Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)																																
Company:	EDI	Select Report Format:	<input checked="" type="checkbox"/> PDF	<input checked="" type="checkbox"/> EXCEL	<input type="checkbox"/> EDD (DIGITAL)	R	<input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)																														
Contact:	Lyndsay Doetzel	Quality Control (QC) Report with Report	<input type="checkbox"/> Yes	<input type="checkbox"/> No		P	<input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT																														
Address:	2195 - 2nd Avenue Whitehorse, YT Y1A 3T8	<input type="checkbox"/> Criteria on Report - provide details below if box checked				E	<input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																														
Phone:	867-393-4882	Select Distribution:	<input type="checkbox"/> EMAIL	<input type="checkbox"/> MAIL	<input type="checkbox"/> FAX	E2	<input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge																														
		Email 1 or Fax	ldoetzel@edynamics.com			Specify Date Required for E2,E or P:																															
		Email 2	Emille.Hamm@gov.yk.ca																																		
		Email 3	erik.pit@gov.yk.ca																																		
Invoice To		Invoice Distribution			Analysis Request																																
Same as Report To	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Select Invoice Distribution:	<input checked="" type="checkbox"/> EMAIL	<input type="checkbox"/> MAIL	<input type="checkbox"/> FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																															
Copy of Invoice with Report	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Email 1 or Fax	sienner@edynamics.com			FULL-TOT-DW-WR																Number of Containers															
Company:	EDI	Email 2	ldoetzel@edynamics.com																																		
Contact:	S Jenner	Oil and Gas Required Fields (client use)																																			
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ALS Quote #:	Q55556	GL Account:																																			
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ALS Lab Work Order # (lab use only)		ALS Contact:	Craig Flaherty		Sampler:																																
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Short Holding Time Rush Processing																																					
Drinking Water (DW) Samples ¹ (client use)										Special Instructions / Specify Criteria to add on report (client use)										SAMPLE CONDITION AS RECEIVED (lab use only)																	
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No																				Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>																	
Are samples for human drinking water use? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																				Ice packs Yes <input type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>																	
																				Cooling Initiated <input type="checkbox"/>																	
																				INITIAL COOLER TEMPERATURES °C																	
																				FINAL COOLER TEMPERATURES °C																	
SHIPMENT RELEASE (client use)										INITIAL SHIPMENT RECEPTION (lab use only)										FINAL SHIPMENT RECEPTION (lab use only)																	
Released by:	SM	Date:	Nov 9	Time:	13:40	Received by:	[Signature]	Date:	9 Nov 16	Time:	10:39:43	Received by:	[Signature]	Date:	11/10	Time:	12:10																				

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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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 COC form.