



ENVIRONMENTAL DYNAMICS INC.
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Date Received: 16-SEP-15
Report Date: 16-OCT-15 10:24 (MT)
Version: FINAL REV. 2

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1673876
Project P.O. #: NOT SUBMITTED
Job Reference: MOUNT NANSEN 15-Y-0146
C of C Numbers: 1, 2, 3, 4
Legal Site Desc:

Comments:

16-OCT-2015 Revision 2: The client Sample ID for the samples ALS identify as L1673876 - 1, -2, 17 and -25 were modified.

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

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Sample ID Description Sampled Date Sampled Time Client ID	L1673876-1 Water 15-SEP-15 10:35 WQ-DC-DX+105	L1673876-2 Water 15-SEP-15 08:05 WQ-VC-DBC	L1673876-3 Water 15-SEP-15 08:20 WQ-VC-U	L1673876-4 Water 15-SEP-15 15:45 WQ-SEEP	L1673876-5 Water 15-SEP-15 13:50 WQ-DC-8	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1090	159	146	1450	1950
	Hardness (as CaCO3) (mg/L)	677	78.9	73.7	869	1400
	pH (pH)	7.34	7.84	7.81	7.15	8.00
	Total Suspended Solids (mg/L)	<3.0	13.3	<3.0	27.0	88.0
	Total Dissolved Solids (mg/L)	798	88.0	79.6	1210	1720
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	275	65.6	62.8	245	367
	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)	275	65.6	62.8	245	367
	Ammonia, Total (as N) (mg/L)	0.0388	<0.0050	<0.0050	3.90	0.265
	Chloride (Cl) (mg/L)	<1.0 ^{DLA}	<0.50	<0.50	<2.5 ^{DLA}	<2.5 ^{DLA}
	Fluoride (F) (mg/L)	0.161	0.051	0.044	0.12	0.12
	Nitrate (as N) (mg/L)	0.207	0.241	0.114	0.707	0.191
	Nitrite (as N) (mg/L)	0.0023	<0.0010	<0.0010	0.0389	<0.0050 ^{DLA}
	Sulfate (SO4) (mg/L)	388	17.1	13.0	682	1010
	Anion Sum (meq/L)	13.6	1.69	1.54	19.1	28.4
	Cation Sum (meq/L)	13.9	1.69	1.59	20.1	28.8
	Cation - Anion Balance (%)	1.2	0.2	1.6	2.5	0.6
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	0.0117
Cyanide, Total (mg/L)		<0.0050	<0.0050	<0.0050	0.0423	<0.0050
Cyanate (mg/L)		<0.20	<0.20	<0.20	<0.20	<0.20
Thiocyanate (SCN) (mg/L)		<0.50	<0.50	<0.50	3.87	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)	0.0139	0.153	0.0675	0.0254	0.712
	Antimony (Sb)-Total (mg/L)	0.00875	0.00019	0.00011	0.00043	0.0204
	Arsenic (As)-Total (mg/L)	0.0423	0.00100	0.00037	0.0414	0.0561
	Barium (Ba)-Total (mg/L)	0.0161	0.0526	0.0513	0.0637	0.0503
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040 ^{DLA}
	Bismuth (Bi)-Total (mg/L)	<0.000050	0.000063	<0.000050	<0.000050	<0.00010 ^{DLA}
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	0.057	0.053
	Cadmium (Cd)-Total (mg/L)	0.00292	0.0000572	0.0000333	0.000505	0.00452
	Calcium (Ca)-Total (mg/L)	176	20.8	18.9	247	297
	Chromium (Cr)-Total (mg/L)	0.00012	0.00030	0.00024	0.00055	0.00123
	Cobalt (Co)-Total (mg/L)	0.00087	0.00020	0.00015	0.00745	0.00079
	Copper (Cu)-Total (mg/L)	0.00082	0.00217	0.00202	0.00374	0.0041
	Iron (Fe)-Total (mg/L)	0.556	0.236	0.112	9.96	5.38
	Lead (Pb)-Total (mg/L)	0.000345	0.000526	0.000060	0.000093	0.00816
	Lithium (Li)-Total (mg/L)	0.0086	<0.0010	<0.0010	0.0013	0.0117

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		Sample ID	L1673876-6	L1673876-7	L1673876-8	L1673876-9	L1673876-10
		Description	Water	Water	Water	Water	Water
		Sampled Date	15-SEP-15	14-SEP-15	14-SEP-15	14-SEP-15	14-SEP-15
		Sampled Time	09:25	13:20	19:25	16:50	18:20
		Client ID	WQ-VC-U-R	WQ-PC-D	WQ-DC-R	WQ-VC-R	WQ-VC-UMN
Grouping	Analyte						
WATER							
Physical Tests	Conductivity (uS/cm)		147	272	879	178	188
	Hardness (as CaCO3) (mg/L)		73.4	137	526	87.9	93.1
	pH (pH)		7.80	7.64	7.89	7.90	7.92
	Total Suspended Solids (mg/L)		<3.0	20.7	6.0	16.0	5.3
	Total Dissolved Solids (mg/L)		79.9	172	643	99.7	106
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)		63.6	46.3	138	64.4	67.7
	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)		63.6	46.3	138	64.4	67.7
	Ammonia, Total (as N) (mg/L)		0.0055	0.352	0.202	<0.0050	<0.0050
	Chloride (Cl) (mg/L)		<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)		0.047	0.055	0.075	0.048	0.048
	Nitrate (as N) (mg/L)		0.114	0.0343	0.316	0.0924	0.0968
	Nitrite (as N) (mg/L)		<0.0010	0.0012	0.0078	<0.0010	<0.0010
	Sulfate (SO4) (mg/L)		13.0	89.7	367	26.9	28.9
	Anion Sum (meq/L)		1.55	2.80	10.4	1.86	1.96
	Cation Sum (meq/L)		1.58	2.97	11.0	1.89	1.99
	Cation - Anion Balance (%)		0.9	3.0	2.7	0.9	0.8
Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Cyanide, Total (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Cyanate (mg/L)		<0.20	<0.20	<0.20	<0.20	<0.20
	Thiocyanate (SCN) (mg/L)		<0.50	<0.50	<0.50	<0.50	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)		0.109	2.12	0.0588	0.213	0.157
	Antimony (Sb)-Total (mg/L)		0.00011	0.00367	0.00161	0.00023	0.00021
	Arsenic (As)-Total (mg/L)		0.00045	0.0273	0.00969	0.00157	0.00142
	Barium (Ba)-Total (mg/L)		0.0529	0.0922	0.0448	0.0538	0.0531
	Beryllium (Be)-Total (mg/L)		<0.000020	0.000111	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Total (mg/L)		<0.000050	0.000332	<0.000050	<0.000050	<0.000050
	Boron (B)-Total (mg/L)		<0.010	<0.010	0.018	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)		0.0000305	0.000636	0.0000450	0.0000489	0.0000457
	Calcium (Ca)-Total (mg/L)		19.2	38.3	120	23.4	24.3
	Chromium (Cr)-Total (mg/L)		0.00028	0.00257	0.00033	0.00039	0.00031
	Cobalt (Co)-Total (mg/L)		0.00018	0.00120	0.00082	0.00021	0.00018
	Copper (Cu)-Total (mg/L)		0.00218	0.0121	0.00155	0.00233	0.00216
	Iron (Fe)-Total (mg/L)		0.175	4.56	1.40	0.357	0.266
	Lead (Pb)-Total (mg/L)		0.000130	0.0262	0.000201	0.000710	0.000678
	Lithium (Li)-Total (mg/L)		<0.0010	0.0022	0.0022	<0.0010	<0.0010

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		Sample ID	L1673876-11	L1673876-12	L1673876-13	L1673876-14	L1673876-15
		Description	Water	Water	Water	Water	Water
		Sampled Date	15-SEP-15	15-SEP-15	14-SEP-15	15-SEP-15	
		Sampled Time	11:55	11:30	13:40	14:40	
		Client ID	WQ-DC-11	WQ-DC-15	WQ-PC-U	WQ-DC-U	TRAVEL BLANK
Grouping	Analyte						
WATER							
Physical Tests	Conductivity (uS/cm)		1080	1070	269	1070	<2.0
	Hardness (as CaCO3) (mg/L)		687	685	133	665	<0.50
	pH (pH)		7.65	7.37	7.62	8.14	5.54
	Total Suspended Solids (mg/L)		<3.0	<3.0	66.7	28.7	<3.0
	Total Dissolved Solids (mg/L)		808	807	169	829	<1.0
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)		275	273	45.4	171	<1.0
	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)		275	273	45.4	171	<1.0
	Ammonia, Total (as N) (mg/L)		0.0304	0.0391	0.390	0.486	<0.0050
	Chloride (Cl) (mg/L)		<1.0 ^{DLA}	<1.0 ^{DLA}	<0.50	<1.0 ^{DLA}	<0.50
	Fluoride (F) (mg/L)		0.154	0.155	0.049	0.096	<0.020
	Nitrate (as N) (mg/L)		0.209	0.203	0.0250	0.201	<0.0050
	Nitrite (as N) (mg/L)		0.0021	0.0021	0.0012	0.0053	<0.0010
	Sulfate (SO4) (mg/L)		394	394	89.2	486	<0.30
	Anion Sum (meq/L)		13.7	13.7	2.77	13.6	<0.10
	Cation Sum (meq/L)		14.1	14.1	2.88	13.9	<0.10
	Cation - Anion Balance (%)		1.3	1.3	2.0	1.1	0.0
	Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050
Cyanide, Total (mg/L)			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanate (mg/L)			<0.20	<0.20	<0.20	<0.20	<0.20
Thiocyanate (SCN) (mg/L)			<0.50	<0.50	<0.50	<0.50	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)		0.0311	0.0814	1.25	0.421	<0.0030
	Antimony (Sb)-Total (mg/L)		0.00856	0.00923	0.00159	0.00218	<0.00010
	Arsenic (As)-Total (mg/L)		0.0454	0.0521	0.0109	0.0141	<0.00010
	Barium (Ba)-Total (mg/L)		0.0169	0.0167	0.0778	0.0526	<0.000050
	Beryllium (Be)-Total (mg/L)		<0.000020	<0.000020	0.000061	0.000020	<0.000020
	Bismuth (Bi)-Total (mg/L)		<0.000050	<0.000050	0.000082	<0.000050	<0.000050
	Boron (B)-Total (mg/L)		<0.010	<0.010	<0.010	0.021	<0.010
	Cadmium (Cd)-Total (mg/L)		0.00317	0.00339	0.000143	0.0000960	<0.000050
	Calcium (Ca)-Total (mg/L)		174	178	37.9	155	<0.050
	Chromium (Cr)-Total (mg/L)		0.00012	0.00018	0.00166	0.00088	<0.00010
	Cobalt (Co)-Total (mg/L)		0.00078	0.00091	0.00070	0.00121	<0.00010
	Copper (Cu)-Total (mg/L)		0.00091	0.00098	0.00400	0.00234	<0.00050
	Iron (Fe)-Total (mg/L)		0.657	0.828	2.63	2.25	<0.010
	Lead (Pb)-Total (mg/L)		0.000503	0.000677	0.00666	0.000415	<0.000050
	Lithium (Li)-Total (mg/L)		0.0085	0.0088	0.0015	0.0031	<0.0010

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	Sample ID Description Sampled Date Sampled Time Client ID	L1673876-16 Water 15-SEP-15 09:10 WQ-BC	L1673876-17 Water 15-SEP-15 13:20 WQ-DC-D1B	L1673876-18 Water 15-SEP-15 WQ-DC-10	L1673876-19 Water 15-SEP-15 16:20 WQ-TP	L1673876-20 Water 15-SEP-15 11:10 WQ-DC-14
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	279	1520	1110	1260	344
	Hardness (as CaCO3) (mg/L)	152	1050	704	761	176
	pH (pH)	8.05	8.20	7.97	8.06	7.79
	Total Suspended Solids (mg/L)	29.3	22.7	8.0	3.3	4.0
	Total Dissolved Solids (mg/L)	173	1280	834	1040	217
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	87.2	298	272	75.2	67.9
	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)	87.2	298	272	75.2	67.9
	Ammonia, Total (as N) (mg/L)	0.0116	0.103	0.0296	0.0401	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<2.5 ^{DLA}	<1.0 ^{DLA}	<1.0 ^{DLA}	<0.50
	Fluoride (F) (mg/L)	0.065	0.13	0.162	0.245	0.050
	Nitrate (as N) (mg/L)	0.0566	0.095	0.093	0.073	<0.0050
	Nitrite (as N) (mg/L)	<0.0010	<0.0050 ^{DLA}	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0010
	Sulfate (SO4) (mg/L)	62.0	740	415	685	107
	Anion Sum (meq/L)	3.04	21.4	14.1	15.8	3.59
	Cation Sum (meq/L)	3.23	21.5	14.5	16.3	3.73
	Cation - Anion Balance (%)	3.0	0.3	1.4	1.5	1.9
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide, Total (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanate (mg/L)		<2.0 ^{DLIS}	<0.20	<0.20	<0.20	<0.20
Thiocyanate (SCN) (mg/L)		<0.50	<0.50	<0.50	<0.50	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)	0.871	0.299	0.0418	0.101	0.0511
	Antimony (Sb)-Total (mg/L)	0.00059	0.0117	0.00936	0.0369	0.00173
	Arsenic (As)-Total (mg/L)	0.00750	0.0276	0.0541	0.115	0.00460
	Barium (Ba)-Total (mg/L)	0.0662	0.0310	0.0186	0.0112	0.0401
	Beryllium (Be)-Total (mg/L)	0.000041	<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Total (mg/L)	0.000070	<0.000050	<0.000050	0.000195	<0.000050
	Boron (B)-Total (mg/L)	<0.010	0.032	<0.010	0.077	<0.010
	Cadmium (Cd)-Total (mg/L)	0.000245	0.00151	0.00232	0.000987	0.0000568
	Calcium (Ca)-Total (mg/L)	41.8	229	184	225	48.1
	Chromium (Cr)-Total (mg/L)	0.00121	0.00060	0.00014	0.00018	0.00021
	Cobalt (Co)-Total (mg/L)	0.00068	0.00042	0.00084	0.00045	<0.00010
	Copper (Cu)-Total (mg/L)	0.00350	0.00192	0.00117	0.0265	0.00208
	Iron (Fe)-Total (mg/L)	1.53	1.71	1.57	0.341	0.078
	Lead (Pb)-Total (mg/L)	0.00489	0.00299	0.00124	0.0168	0.000355
	Lithium (Li)-Total (mg/L)	0.0016	0.0090	0.0080	0.0077	<0.0010

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Sample ID Description Sampled Date Sampled Time Client ID		L1673876-21 Water 15-SEP-15 16:45 WQ-DC-B	L1673876-22 Water 15-SEP-15 17:00 FIELD BLANK	L1673876-23 Water 15-SEP-15 10:30 WQ-DC-DX	L1673876-24 Water 14-SEP-15 19:40 WQ-DC-R-R	L1673876-25 Water 15-SEP-15 12:15 WQ-MS-S-03
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1060	<2.0	480	887	1220
	Hardness (as CaCO3) (mg/L)	671	<0.50	259	522	788
	pH (pH)	8.08	5.64	7.89	7.96	7.25
	Total Suspended Solids (mg/L)	36.0	<3.0	30.7	<3.0	91.3
	Total Dissolved Solids (mg/L)	818	<1.0	314	643	940
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	167	<1.0	104	141	300
	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)	167	<1.0	104	141	300
	Ammonia, Total (as N) (mg/L)	0.0936	<0.0050	0.0107	0.192	0.0460
	Chloride (Cl) (mg/L)	<1.0 ^{DLA}	<0.50	<0.50	<0.50	<1.0 ^{DLA}
	Fluoride (F) (mg/L)	0.097	<0.020	0.058	0.075	0.191
	Nitrate (as N) (mg/L)	0.097	<0.0050	0.0223	0.316	0.016
	Nitrite (as N) (mg/L)	<0.0020 ^{DLA}	<0.0010	<0.0010	0.0075	<0.0020 ^{DLA}
	Sulfate (SO4) (mg/L)	483	<0.30	152	367	474
	Anion Sum (meq/L)	13.4	<0.10	5.26	10.5	15.9
	Cation Sum (meq/L)	13.8	<0.10	5.43	10.9	16.3
	Cation - Anion Balance (%)	1.6	0.0	1.6	2.0	1.2
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide, Total (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanate (mg/L)		<0.20	<0.20	<0.20	<0.20	<0.20
Thiocyanate (SCN) (mg/L)		<0.50	<0.50	<0.50	<0.50	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)	0.478	<0.0030	1.49	0.0605	0.270
	Antimony (Sb)-Total (mg/L)	0.00274	<0.00010	0.00190	0.00163	0.0137
	Arsenic (As)-Total (mg/L)	0.0102	<0.00010	0.0152	0.00996	0.141
	Barium (Ba)-Total (mg/L)	0.0520	<0.000050	0.0556	0.0470	0.0310
	Beryllium (Be)-Total (mg/L)	0.000026	<0.000020	0.000048	<0.000020	<0.000020
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	0.000059
	Boron (B)-Total (mg/L)	0.017	<0.010	<0.010	0.018	<0.010
	Cadmium (Cd)-Total (mg/L)	0.0000997	<0.0000050	0.0000626	0.0000516	0.00324
	Calcium (Ca)-Total (mg/L)	151	<0.050	69.8	129	200
	Chromium (Cr)-Total (mg/L)	0.00092	<0.00010	0.00178	0.00035	0.00047
	Cobalt (Co)-Total (mg/L)	0.00054	<0.00010	0.00081	0.00079	0.00165
	Copper (Cu)-Total (mg/L)	0.00224	<0.00050	0.00378	0.00155	0.0144
	Iron (Fe)-Total (mg/L)	2.19	<0.010	2.30	1.53	4.04
	Lead (Pb)-Total (mg/L)	0.000518	<0.000050	0.00247	0.000205	0.0136
	Lithium (Li)-Total (mg/L)	0.0034	<0.0010	0.0012	0.0018	0.0095

* 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	L1673876-26 Water 16-SEP-15 07:55 WQ-MS-S-A	L1673876-27 Water 16-SEP-15 08:20 WQ-CH-P-13-01		
Grouping	Analyte				
WATER					
Physical Tests	Conductivity (uS/cm)	2370	1280		
	Hardness (as CaCO3) (mg/L)	1870	867		
	pH (pH)	7.91	6.43		
	Total Suspended Solids (mg/L)	7.3	4.7		
	Total Dissolved Solids (mg/L)	2270	1110		
Anions and Nutrients	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	523	8.9		
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<1.0	<1.0		
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<1.0	<1.0		
	Alkalinity, Total (as CaCO3) (mg/L)	523	8.9		
	Ammonia, Total (as N) (mg/L)	0.0181	0.0054		
	Chloride (Cl) (mg/L)	<2.5 ^{DLA}	<1.0 ^{DLA}		
	Fluoride (F) (mg/L)	0.14	0.046		
	Nitrate (as N) (mg/L)	0.117	0.113		
	Nitrite (as N) (mg/L)	<0.0050 ^{DLA}	0.0031		
	Sulfate (SO4) (mg/L)	1340	800		
	Anion Sum (meq/L)	38.3	16.8		
	Cation Sum (meq/L)	38.0	17.7		
	Cation - Anion Balance (%)	-0.4	2.6		
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	
Cyanide, Total (mg/L)		<0.0050	<0.0050		
Cyanate (mg/L)		<0.20	<0.20		
Thiocyanate (SCN) (mg/L)		<2.5 ^{DLM}	<0.50		
Total Metals	Aluminum (Al)-Total (mg/L)	0.0212	0.222		
	Antimony (Sb)-Total (mg/L)	0.00879	0.00023		
	Arsenic (As)-Total (mg/L)	0.0574	0.00161		
	Barium (Ba)-Total (mg/L)	0.0151	0.0123		
	Beryllium (Be)-Total (mg/L)	<0.000040 ^{DLA}	0.000028		
	Bismuth (Bi)-Total (mg/L)	<0.00010 ^{DLA}	<0.000050		
	Boron (B)-Total (mg/L)	<0.020 ^{DLA}	<0.010		
	Cadmium (Cd)-Total (mg/L)	0.00313	0.00877		
	Calcium (Ca)-Total (mg/L)	375	218		
	Chromium (Cr)-Total (mg/L)	<0.00020 ^{DLA}	0.00022		
	Cobalt (Co)-Total (mg/L)	0.00038	<0.00010		
	Copper (Cu)-Total (mg/L)	0.0026	0.00116		
	Iron (Fe)-Total (mg/L)	0.318	0.155		
	Lead (Pb)-Total (mg/L)	0.00428	0.000787		
	Lithium (Li)-Total (mg/L)	0.0185	0.0010		

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

16-OCT-15 10:24 (MT)

Version: FINAL REV. 2

Sample ID Description Sampled Date Sampled Time Client ID		L1673876-1 Water 15-SEP-15 10:35 WQ-DC-DX+105	L1673876-2 Water 15-SEP-15 08:05 WQ-VC-DBC	L1673876-3 Water 15-SEP-15 08:20 WQ-VC-U	L1673876-4 Water 15-SEP-15 15:45 WQ-SEEP	L1673876-5 Water 15-SEP-15 13:50 WQ-DC-8
Grouping	Analyte					
WATER						
Total Metals	Magnesium (Mg)-Total (mg/L)	56.7	6.26	5.86	52.6	146
	Manganese (Mn)-Total (mg/L)	1.21	0.0493	0.0204	5.52	1.51
	Mercury (Hg)-Total (mg/L)	0.0000080	0.0000070	0.0000061	0.0000079	0.0000146
	Molybdenum (Mo)-Total (mg/L)	0.000271	0.000379	0.000317	0.000821	0.00021
	Nickel (Ni)-Total (mg/L)	0.00168	0.00060	<0.00050	0.00343	0.0020
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	0.089
	Potassium (K)-Total (mg/L)	3.62	0.55	0.48	6.01	5.42
	Selenium (Se)-Total (mg/L)	0.000058	<0.000050	<0.000050	0.000295	0.00091
	Silicon (Si)-Total (mg/L)	6.54	6.16	5.99	7.14	6.87
	Silver (Ag)-Total (mg/L)	0.000013	0.000035	<0.000010	0.000040	0.000100
	Sodium (Na)-Total (mg/L)	4.93	2.22	2.09	33.0	8.93
	Strontium (Sr)-Total (mg/L)	0.396	0.210	0.205	0.703	0.706
	Sulfur (S)-Total (mg/L)	134	5.88	4.46	224	329
	Thallium (Tl)-Total (mg/L)	0.000096	0.000016	<0.000010	0.000010	0.000144 ^{DLA}
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
	Titanium (Ti)-Total (mg/L)	0.00041	0.00421	0.00121	0.00133	0.0364
	Uranium (U)-Total (mg/L)	0.00409	0.000406	0.000323	0.00196	0.00452
	Vanadium (V)-Total (mg/L)	<0.00050	0.00058	<0.00050	0.00170	0.0036
	Zinc (Zn)-Total (mg/L)	0.541	0.0041	<0.0030	0.0436	0.772 ^{DLA}
	Zirconium (Zr)-Total (mg/L)	<0.00030	<0.00030	<0.00030	0.00050	<0.00060
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)	0.0038	0.0355	0.0354	0.0131	0.0046
	Antimony (Sb)-Dissolved (mg/L)	0.00849	0.00011	<0.00010	0.00039	0.0198
	Arsenic (As)-Dissolved (mg/L)	0.0127	0.00046	0.00029	0.0375	0.0269
	Barium (Ba)-Dissolved (mg/L)	0.0157	0.0508	0.0507	0.0716	0.0383
	Beryllium (Be)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.00010 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.010	0.054	0.049
	Cadmium (Cd)-Dissolved (mg/L)	0.000910	0.0000397	0.0000255	0.000463	0.000630
	Calcium (Ca)-Dissolved (mg/L)	176	21.2	19.6	256	310
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	0.00013	0.00013	0.00042	<0.00020 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	0.00086	0.00013	0.00012	0.00879	0.00044
	Copper (Cu)-Dissolved (mg/L)	0.00047	0.00188	0.00188	0.00289	0.00082
	Iron (Fe)-Dissolved (mg/L)	0.207	0.066	0.061	7.36	2.41
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.00010 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)	0.0083	<0.0010	<0.0010	0.0012	0.0107

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

16-OCT-15 10:24 (MT)

Version: FINAL REV. 2

		Sample ID	L1673876-6	L1673876-7	L1673876-8	L1673876-9	L1673876-10
		Description	Water	Water	Water	Water	Water
		Sampled Date	15-SEP-15	14-SEP-15	14-SEP-15	14-SEP-15	14-SEP-15
		Sampled Time	09:25	13:20	19:25	16:50	18:20
		Client ID	WQ-VC-U-R	WQ-PC-D	WQ-DC-R	WQ-VC-R	WQ-VC-UMN
Grouping	Analyte						
WATER							
Total Metals	Magnesium (Mg)-Total (mg/L)		5.96	9.26	47.1	7.17	7.55
	Manganese (Mn)-Total (mg/L)		0.0240	0.281	0.575	0.0483	0.0468
	Mercury (Hg)-Total (mg/L)		0.0000064	0.0000132	0.0000053	0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)		0.000311	0.000301	0.000292	0.000356	0.000356
	Nickel (Ni)-Total (mg/L)		0.00052	0.00200	0.00102	0.00071	<0.00050
	Phosphorus (P)-Total (mg/L)		<0.050	0.094	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)		0.50	1.12	2.32	0.62	0.62
	Selenium (Se)-Total (mg/L)		<0.000050	0.000055	0.000130	0.000053	<0.000050
	Silicon (Si)-Total (mg/L)		6.09	10.5	6.30	6.61	6.28
	Silver (Ag)-Total (mg/L)		<0.000010	0.000310	<0.000010	0.000013	<0.000010
	Sodium (Na)-Total (mg/L)		2.11	3.57	8.43	2.45	2.47
	Strontium (Sr)-Total (mg/L)		0.206	0.228	0.367	0.203	0.213
	Sulfur (S)-Total (mg/L)		4.58	29.3	120	9.31	9.59
	Thallium (Tl)-Total (mg/L)		<0.000010	0.000064	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		0.00301	0.0581	0.00162	0.00536	0.00418
	Uranium (U)-Total (mg/L)		0.000328	0.000676	0.00129	0.000411	0.000442
	Vanadium (V)-Total (mg/L)		0.00057	0.00660	0.00079	0.00079	0.00063
	Zinc (Zn)-Total (mg/L)		0.0033	0.0654	0.0073	0.0043	0.0036
	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)		0.0360	0.0183	0.0248	0.0418	0.0347
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	0.00115	0.00162	0.00016	0.00016
	Arsenic (As)-Dissolved (mg/L)		0.00031	0.00455	0.00579	0.00082	0.00074
	Barium (Ba)-Dissolved (mg/L)		0.0503	0.0566	0.0445	0.0506	0.0510
	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	<0.010	0.016	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.0000295	0.000129	0.0000445	0.0000392	0.0000361
	Calcium (Ca)-Dissolved (mg/L)		19.5	39.6	129	23.4	24.8
	Chromium (Cr)-Dissolved (mg/L)		0.00015	<0.00010	0.00023	0.00016	0.00013
	Cobalt (Co)-Dissolved (mg/L)		0.00012	0.00021	0.00081	0.00013	0.00012
	Copper (Cu)-Dissolved (mg/L)		0.00188	0.00167	0.00142	0.00197	0.00187
	Iron (Fe)-Dissolved (mg/L)		0.062	0.306	0.598	0.094	0.064
	Lead (Pb)-Dissolved (mg/L)		<0.000050	0.000668	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		<0.0010	<0.0010	0.0021	<0.0010	<0.0010

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1673876-11	L1673876-12	L1673876-13	L1673876-14	L1673876-15
		Description	Water	Water	Water	Water	Water
		Sampled Date	15-SEP-15	15-SEP-15	14-SEP-15	15-SEP-15	
		Sampled Time	11:55	11:30	13:40	14:40	
		Client ID	WQ-DC-11	WQ-DC-15	WQ-PC-U	WQ-DC-U	TRAVEL BLANK
Grouping	Analyte						
WATER							
Total Metals	Magnesium (Mg)-Total (mg/L)		55.2	57.1	9.01	61.4	<0.10
	Manganese (Mn)-Total (mg/L)		1.08	1.18	0.236	0.991	<0.00010
	Mercury (Hg)-Total (mg/L)		0.0000083	0.0000073	0.0000107	0.0000060	<0.0000050
	Molybdenum (Mo)-Total (mg/L)		0.000260	0.000293	0.000236	0.000349	<0.000050
	Nickel (Ni)-Total (mg/L)		0.00157	0.00164	0.00125	0.00145	<0.00050
	Phosphorus (P)-Total (mg/L)		<0.050	<0.050	0.057	<0.050	<0.050
	Potassium (K)-Total (mg/L)		3.59	3.74	0.84	2.95	<0.10
	Selenium (Se)-Total (mg/L)		<0.000050	0.000061	0.000056	0.000167	<0.000050
	Silicon (Si)-Total (mg/L)		6.46	6.74	9.17	6.60	<0.050
	Silver (Ag)-Total (mg/L)		0.000012	0.000038	0.000085	0.000013	<0.000010
	Sodium (Na)-Total (mg/L)		4.88	4.91	3.55	9.19	<0.050
	Strontium (Sr)-Total (mg/L)		0.387	0.400	0.215	0.454	<0.00020
	Sulfur (S)-Total (mg/L)		128	133	28.9	158	<0.50
	Thallium (Tl)-Total (mg/L)		0.000090	0.000111	0.000032	<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	0.00437	0.0418	0.0196	<0.00030
	Uranium (U)-Total (mg/L)		0.00407	0.00416	0.000570	0.00187	<0.000010
	Vanadium (V)-Total (mg/L)		<0.00050	0.00065	0.00445	0.00237	<0.00050
	Zinc (Zn)-Total (mg/L)		0.533	0.552	0.0173	0.0156	<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	
	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	
	Aluminum (Al)-Dissolved (mg/L)		0.0036	0.0040	0.0155	0.0375	
	Antimony (Sb)-Dissolved (mg/L)		0.00855	0.00850	0.00099	0.00210	
	Arsenic (As)-Dissolved (mg/L)		0.00955	0.0126	0.00477	0.00818	
	Barium (Ba)-Dissolved (mg/L)		0.0163	0.0158	0.0596	0.0462	
	Beryllium (Be)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	
	Bismuth (Bi)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	
	Boron (B)-Dissolved (mg/L)		<0.010	<0.010	<0.010	0.018	
	Cadmium (Cd)-Dissolved (mg/L)		0.000812	0.000897	0.0000143	0.0000318	
	Calcium (Ca)-Dissolved (mg/L)		179	179	38.5	161	
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	0.00011	0.00016	
	Cobalt (Co)-Dissolved (mg/L)		0.00079	0.00085	0.00020	0.00101	
	Copper (Cu)-Dissolved (mg/L)		0.00039	0.00044	0.00089	0.00115	
	Iron (Fe)-Dissolved (mg/L)		0.119	0.210	0.417	0.488	
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	0.000593	<0.000050	
	Lithium (Li)-Dissolved (mg/L)		0.0081	0.0081	<0.0010	0.0027	

* 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		L1673876-16 Water 15-SEP-15 09:10 WQ-BC	L1673876-17 Water 15-SEP-15 13:20 WQ-DC-D1B	L1673876-18 Water 15-SEP-15 WQ-DC-10	L1673876-19 Water 15-SEP-15 16:20 WQ-TP	L1673876-20 Water 15-SEP-15 11:10 WQ-DC-14
Grouping	Analyte					
WATER						
Total Metals	Magnesium (Mg)-Total (mg/L)	10.0	106	60.5	42.2	12.1
	Manganese (Mn)-Total (mg/L)	0.341	0.686	1.03	0.160	0.00592
	Mercury (Hg)-Total (mg/L)	0.0000097	<0.0000050	0.0000054	0.0000195	0.0000061
	Molybdenum (Mo)-Total (mg/L)	0.000806	0.000223	0.000239	0.00127	0.000060
	Nickel (Ni)-Total (mg/L)	0.00119	0.00115	0.00152	0.00083	<0.00050
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	1.04	4.46	3.58	14.5	3.39
	Selenium (Se)-Total (mg/L)	0.000053	0.000427	<0.000050	0.000055	0.000061
	Silicon (Si)-Total (mg/L)	8.54	6.07	6.43	2.38	5.29
	Silver (Ag)-Total (mg/L)	0.000064	0.000042	0.000022	0.000291	0.000012
	Sodium (Na)-Total (mg/L)	3.39	6.91	4.83	15.0	2.63
	Strontium (Sr)-Total (mg/L)	0.267	0.538	0.407	0.552	0.142
	Sulfur (S)-Total (mg/L)	20.5	235	142	226	35.6
	Thallium (Tl)-Total (mg/L)	0.000024	0.000056	0.000077	0.000170	<0.000010
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	0.0292	0.0152	<0.0030 ^{DLM}	<0.00090 ^{DLM}	0.00153
	Uranium (U)-Total (mg/L)	0.00123	0.00385	0.00404	0.000960	0.000076
	Vanadium (V)-Total (mg/L)	0.00252	0.00151	<0.00050	<0.00050	0.00055
	Zinc (Zn)-Total (mg/L)	0.0143	0.364	0.573	0.0700	0.0091
	Zirconium (Zr)-Total (mg/L)	0.00037	<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)	0.0245	0.0043	0.0033	0.0144	0.0179
	Antimony (Sb)-Dissolved (mg/L)	0.00030	0.0115	0.00895	0.0353	0.00164
	Arsenic (As)-Dissolved (mg/L)	0.00210	0.0123	0.0288	0.0817	0.00401
	Barium (Ba)-Dissolved (mg/L)	0.0520	0.0271	0.0180	0.0109	0.0397
	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	0.029	<0.010	0.073	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000141	0.000234	0.000629	0.000781	0.0000529
	Calcium (Ca)-Dissolved (mg/L)	44.0	239	185	234	50.0
	Chromium (Cr)-Dissolved (mg/L)	0.00020	<0.00010	<0.00010	<0.00010	0.00012
	Cobalt (Co)-Dissolved (mg/L)	0.00022	0.00026	0.00079	0.00045	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00174	0.00073	0.00042	0.0198	0.00187
	Iron (Fe)-Dissolved (mg/L)	0.107	0.262	1.06	0.018	0.020
	Lead (Pb)-Dissolved (mg/L)	0.000139	<0.000050	<0.000050	0.000861	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0012	0.0087	0.0076	0.0075	<0.0010

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1673876-21	L1673876-22	L1673876-23	L1673876-24	L1673876-25
		Description	Water	Water	Water	Water	Water
		Sampled Date	15-SEP-15	15-SEP-15	15-SEP-15	14-SEP-15	15-SEP-15
		Sampled Time	16:45	17:00	10:30	19:40	12:15
		Client ID	WQ-DC-B	FIELD BLANK	WQ-DC-DX	WQ-DC-R-R	WQ-MS-S-03
Grouping	Analyte						
WATER							
Total Metals	Magnesium (Mg)-Total (mg/L)		67.8	<0.10	19.0	48.7	64.5
	Manganese (Mn)-Total (mg/L)		0.421	<0.00010	0.0775	0.597	1.51
	Mercury (Hg)-Total (mg/L)		<0.0000050	<0.0000050	0.0000052	<0.0000050	0.0000051
	Molybdenum (Mo)-Total (mg/L)		0.000317	<0.000050	0.000085	0.000318	0.000285
	Nickel (Ni)-Total (mg/L)		0.00137	<0.00050	0.00122	0.00098	0.00234
	Phosphorus (P)-Total (mg/L)		<0.050	<0.050	0.091	<0.050	0.088
	Potassium (K)-Total (mg/L)		2.69	<0.10	4.11	2.51	3.71
	Selenium (Se)-Total (mg/L)		0.000175	<0.000050	0.000134	0.000128	<0.000050
	Silicon (Si)-Total (mg/L)		6.72	<0.050	6.92	6.41	6.54
	Silver (Ag)-Total (mg/L)		0.000038	<0.000010	0.000045	<0.000010	0.000253
	Sodium (Na)-Total (mg/L)		6.21	<0.050	3.36	8.14	4.73
	Strontium (Sr)-Total (mg/L)		0.436	<0.00020	0.210	0.378	0.428
	Sulfur (S)-Total (mg/L)		161	<0.50	51.3	126	157
	Thallium (Tl)-Total (mg/L)		0.000014	<0.000010	0.000046	<0.000010	0.000105
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		0.0213	<0.00030	0.0774	0.00166	0.0192
	Uranium (U)-Total (mg/L)		0.00205	<0.000010	0.000392	0.00133	0.00410
	Vanadium (V)-Total (mg/L)		0.00238	<0.00050	0.00616	0.00080	0.00177
	Zinc (Zn)-Total (mg/L)		0.0189	<0.0030	0.0106	0.0073	0.881
	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)		0.0425	<0.0010	0.0117	0.0239	0.0020
	Antimony (Sb)-Dissolved (mg/L)		0.00257	<0.00010	0.00138	0.00157	0.0120
	Arsenic (As)-Dissolved (mg/L)		0.00500	<0.00010	0.00334	0.00568	0.0826
	Barium (Ba)-Dissolved (mg/L)		0.0445	<0.000050	0.0367	0.0456	0.0174
	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)		0.015	<0.010	<0.010	0.015	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.0000238	<0.0000050	0.0000169	0.0000290	0.000424
	Calcium (Ca)-Dissolved (mg/L)		156	<0.050	72.2	130	206
	Chromium (Cr)-Dissolved (mg/L)		0.00014	<0.00010	<0.00010	0.00020	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00033	<0.00010	0.00016	0.00079	0.00136
	Copper (Cu)-Dissolved (mg/L)		0.00102	<0.00020	0.00105	0.00129	0.00023
	Iron (Fe)-Dissolved (mg/L)		0.764	<0.010	0.161	0.589	2.59
	Lead (Pb)-Dissolved (mg/L)		0.000071	<0.000050	<0.000050	<0.000050	0.000108
	Lithium (Li)-Dissolved (mg/L)		0.0030	<0.0010	<0.0010	0.0016	0.0089

* 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	L1673876-26 Water 16-SEP-15 07:55 WQ-MS-S-A	L1673876-27 Water 16-SEP-15 08:20 WQ-CH-P-13-01		
Grouping	Analyte				
WATER					
Total Metals	Magnesium (Mg)-Total (mg/L)	216	72.5		
	Manganese (Mn)-Total (mg/L)	0.434	0.290		
	Mercury (Hg)-Total (mg/L)	<0.0000050	0.0000065		
	Molybdenum (Mo)-Total (mg/L)	0.00016	<0.000050		
	Nickel (Ni)-Total (mg/L)	0.0010	0.00696		
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050		
	Potassium (K)-Total (mg/L)	6.86	0.56		
	Selenium (Se)-Total (mg/L)	0.00182	0.000084		
	Silicon (Si)-Total (mg/L)	5.67	8.01		
	Silver (Ag)-Total (mg/L)	0.000056	0.000033		
	Sodium (Na)-Total (mg/L)	9.48	5.28		
	Strontium (Sr)-Total (mg/L)	0.890	0.458		
	Sulfur (S)-Total (mg/L)	437	270		
	Thallium (Tl)-Total (mg/L)	0.000581	<0.000010		
	Tin (Sn)-Total (mg/L)	<0.00020 ^{DLA}	<0.00010		
	Titanium (Ti)-Total (mg/L)	<0.0020 ^{DLM}	0.00292		
	Uranium (U)-Total (mg/L)	0.00836	0.000020		
	Vanadium (V)-Total (mg/L)	<0.0010 ^{DLA}	0.00058		
	Zinc (Zn)-Total (mg/L)	0.254	3.24		
	Zirconium (Zr)-Total (mg/L)	<0.00060 ^{DLA}	<0.00030		
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD		
	Dissolved Metals Filtration Location	FIELD	FIELD		
	Aluminum (Al)-Dissolved (mg/L)	0.0022	0.147		
	Antimony (Sb)-Dissolved (mg/L)	0.00825	<0.00010		
	Arsenic (As)-Dissolved (mg/L)	0.0534	0.00046		
	Barium (Ba)-Dissolved (mg/L)	0.0151	0.0111		
	Beryllium (Be)-Dissolved (mg/L)	<0.000040 ^{DLA}	0.000023		
	Bismuth (Bi)-Dissolved (mg/L)	<0.00010 ^{DLA}	<0.000050		
	Boron (B)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.010		
	Cadmium (Cd)-Dissolved (mg/L)	0.00305	0.00957		
	Calcium (Ca)-Dissolved (mg/L)	384	224		
	Chromium (Cr)-Dissolved (mg/L)	<0.00020 ^{DLA}	0.00010		
	Cobalt (Co)-Dissolved (mg/L)	0.00037	<0.00010		
	Copper (Cu)-Dissolved (mg/L)	0.00167	0.00091		
	Iron (Fe)-Dissolved (mg/L)	0.234	0.026		
	Lead (Pb)-Dissolved (mg/L)	0.00078	<0.000050		
	Lithium (Li)-Dissolved (mg/L)	0.0175	<0.0010		

* 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	L1673876-1 Water 15-SEP-15 10:35 WQ-DC-DX+105	L1673876-2 Water 15-SEP-15 08:05 WQ-VC-DBC	L1673876-3 Water 15-SEP-15 08:20 WQ-VC-U	L1673876-4 Water 15-SEP-15 15:45 WQ-SEEP	L1673876-5 Water 15-SEP-15 13:50 WQ-DC-8
Grouping	Analyte					
WATER						
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)	57.5	6.32	6.04	55.8	152
	Manganese (Mn)-Dissolved (mg/L)	1.18	0.0438	0.0182	6.41	1.52
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.000261	0.000326	0.000277	0.000781	0.00019
	Nickel (Ni)-Dissolved (mg/L)	0.00164	<0.00050	<0.00050	0.00391	0.0013
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	3.60	0.51	0.50	6.28	5.61
	Selenium (Se)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	0.000283	0.00083
	Silicon (Si)-Dissolved (mg/L)	6.52	6.10	6.08	7.26	6.13
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	4.84	2.21	2.12	38.6	9.20
	Strontium (Sr)-Dissolved (mg/L)	0.392	0.211	0.204	0.722	0.710
	Sulfur (S)-Dissolved (mg/L)	132	5.95	4.55	229	337
	Thallium (Tl)-Dissolved (mg/L)	0.000089	<0.000010	<0.000010	0.000011	0.000096 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010 ^{DLM}	<0.00020 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00030	<0.0012 ^{DLA}	<0.00060 ^{DLA}
	Uranium (U)-Dissolved (mg/L)	0.00386	0.000364	0.000297	0.00196	0.00454 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	0.00145	<0.0010 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)	0.522	0.0027	0.0022	0.0477	0.682 ^{DLA}
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00030	0.00047	<0.00060 ^{DLA}

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1673876-6	L1673876-7	L1673876-8	L1673876-9	L1673876-10
		Description	Water	Water	Water	Water	Water
		Sampled Date	15-SEP-15	14-SEP-15	14-SEP-15	14-SEP-15	14-SEP-15
		Sampled Time	09:25	13:20	19:25	16:50	18:20
		Client ID	WQ-VC-U-R	WQ-PC-D	WQ-DC-R	WQ-VC-R	WQ-VC-UMN
Grouping	Analyte						
WATER							
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)		6.02	9.35	49.4	7.17	7.60
	Manganese (Mn)-Dissolved (mg/L)		0.0179	0.207	0.579	0.0388	0.0395
	Mercury (Hg)-Dissolved (mg/L)		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000282	0.000177	0.000272	0.000308	0.000316
	Nickel (Ni)-Dissolved (mg/L)		<0.00050	<0.00050	0.00096	0.00055	<0.00050
	Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)		0.47	0.62	2.46	0.59	0.59
	Selenium (Se)-Dissolved (mg/L)		<0.000050	<0.000050	0.000135	0.000050	<0.000050
	Silicon (Si)-Dissolved (mg/L)		6.04	7.23	6.52	6.33	6.11
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)		2.11	3.63	8.69	2.42	2.52
	Strontium (Sr)-Dissolved (mg/L)		0.202	0.224	0.375	0.198	0.212
	Sulfur (S)-Dissolved (mg/L)		4.65	30.6	125	9.20	9.90
	Thallium (Tl)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<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	0.00044	0.00057	0.00034	<0.00030
	Uranium (U)-Dissolved (mg/L)		0.000299	0.000413	0.00129	0.000379	0.000408
	Vanadium (V)-Dissolved (mg/L)		<0.00050	0.00067	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)		0.0021	0.0173	0.0053	0.0017	0.0018
	Zirconium (Zr)-Dissolved (mg/L)		<0.00030	<0.00030	<0.00030	<0.00030	<0.00030

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1673876-11	L1673876-12	L1673876-13	L1673876-14	L1673876-15
		Description	Water	Water	Water	Water	Water
		Sampled Date	15-SEP-15	15-SEP-15	14-SEP-15	15-SEP-15	
		Sampled Time	11:55	11:30	13:40	14:40	
		Client ID	WQ-DC-11	WQ-DC-15	WQ-PC-U	WQ-DC-U	TRAVEL BLANK
Grouping	Analyte						
WATER							
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)		58.5	57.6	8.91	63.8	
	Manganese (Mn)-Dissolved (mg/L)		1.08	1.15	0.212	0.981	
	Mercury (Hg)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	
	Molybdenum (Mo)-Dissolved (mg/L)		0.000239	0.000251	0.000172	0.000308	
	Nickel (Ni)-Dissolved (mg/L)		0.00153	0.00155	<0.00050	0.00099	
	Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	
	Potassium (K)-Dissolved (mg/L)		3.68	3.73	0.53	3.05	
	Selenium (Se)-Dissolved (mg/L)		<0.000050	0.000051	<0.000050	0.000153	
	Silicon (Si)-Dissolved (mg/L)		6.54	6.66	7.02	6.30	
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	
	Sodium (Na)-Dissolved (mg/L)		4.86	4.86	3.56	9.30	
	Strontium (Sr)-Dissolved (mg/L)		0.384	0.387	0.218	0.451	
	Sulfur (S)-Dissolved (mg/L)		131	131	30.2	163	
	Thallium (Tl)-Dissolved (mg/L)		0.000080	0.000088	<0.000010	<0.000010	
	Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Dissolved (mg/L)		<0.00030	<0.00030	0.00040	<0.00090 ^{DLM}	
	Uranium (U)-Dissolved (mg/L)		0.00398	0.00397	0.000409	0.00182	
	Vanadium (V)-Dissolved (mg/L)		<0.00050	<0.00050	0.00077	<0.00050	
	Zinc (Zn)-Dissolved (mg/L)		0.521	0.521	0.0013	0.0068	
	Zirconium (Zr)-Dissolved (mg/L)		<0.00030	<0.00030	<0.00030	<0.00030	

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1673876-16	L1673876-17	L1673876-18	L1673876-19	L1673876-20
		Description	Water	Water	Water	Water	Water
		Sampled Date	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15
		Sampled Time	09:10	13:20		16:20	11:10
		Client ID	WQ-BC	WQ-DC-D1B	WQ-DC-10	WQ-TP	WQ-DC-14
Grouping	Analyte						
WATER							
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)		10.3	111	58.9	43.1	12.5
	Manganese (Mn)-Dissolved (mg/L)		0.307	0.641	0.990	0.148	0.00394
	Mercury (Hg)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000734	0.000196	0.000215	0.00123	<0.000050
	Nickel (Ni)-Dissolved (mg/L)		0.00056	0.00083	0.00140	0.00069	<0.00050
	Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)		0.78	4.75	3.60	15.2	3.47
	Selenium (Se)-Dissolved (mg/L)		<0.000050	0.000395	<0.000050	<0.000050	0.000068
	Silicon (Si)-Dissolved (mg/L)		7.28	5.89	6.38	2.43	5.41
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	0.000023	<0.000010
	Sodium (Na)-Dissolved (mg/L)		3.41	7.09	4.71	15.1	2.61
	Strontium (Sr)-Dissolved (mg/L)		0.272	0.553	0.401	0.562	0.145
	Sulfur (S)-Dissolved (mg/L)		21.0	240	137	232	36.2
	Thallium (Tl)-Dissolved (mg/L)		<0.000010	0.000045	0.000065	0.000167	<0.000010
	Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)		0.00044	<0.00030	<0.00030	<0.00030	<0.00030
	Uranium (U)-Dissolved (mg/L)		0.00114	0.00377	0.00386	0.000935	0.000069
	Vanadium (V)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)		0.0032	0.308	0.538	0.0502	0.0080
	Zirconium (Zr)-Dissolved (mg/L)		<0.00030	<0.00030	<0.00030	<0.00030	<0.00030

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1673876-21	L1673876-22	L1673876-23	L1673876-24	L1673876-25
		Description	Water	Water	Water	Water	Water
		Sampled Date	15-SEP-15	15-SEP-15	15-SEP-15	14-SEP-15	15-SEP-15
		Sampled Time	16:45	17:00	10:30	19:40	12:15
		Client ID	WQ-DC-B	FIELD BLANK	WQ-DC-DX	WQ-DC-R-R	WQ-MS-S-03
Grouping	Analyte						
WATER							
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)		68.4	<0.10	19.1	48.2	66.2
	Manganese (Mn)-Dissolved (mg/L)		0.399	<0.00010	0.0456	0.596	1.49
	Mercury (Hg)-Dissolved (mg/L)		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000272	<0.000050	<0.000050	0.000276	0.000232
	Nickel (Ni)-Dissolved (mg/L)		0.00073	<0.00050	<0.00050	0.00094	0.00189
	Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)		2.76	<0.10	3.97	2.51	3.71
	Selenium (Se)-Dissolved (mg/L)		0.000158	<0.000050	0.000087	0.000127	<0.000050
	Silicon (Si)-Dissolved (mg/L)		6.29	<0.050	4.96	6.30	6.31
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)		6.08	<0.050	3.25	8.13	4.81
	Strontium (Sr)-Dissolved (mg/L)		0.431	<0.00020	0.209	0.371	0.430
	Sulfur (S)-Dissolved (mg/L)		161	<0.50	51.5	127	160
	Thallium (Tl)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	0.000073
	Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)		<0.00090 ^{DLM}	<0.00030	<0.00030	<0.00090 ^{DLM}	<0.00030
	Uranium (U)-Dissolved (mg/L)		0.00196	<0.000010	0.000289	0.00128	0.00398
	Vanadium (V)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)		0.0105	<0.0010	0.0023	0.0052	0.835
	Zirconium (Zr)-Dissolved (mg/L)		<0.00030	<0.00030	<0.00030	<0.00030	<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	L1673876-26 Water 16-SEP-15 07:55 WQ-MS-S-A	L1673876-27 Water 16-SEP-15 08:20 WQ-CH-P-13-01		
Grouping	Analyte				
WATER					
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)	222	74.9		
	Manganese (Mn)-Dissolved (mg/L)	0.435	0.283		
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.000050		
	Molybdenum (Mo)-Dissolved (mg/L)	0.00014	<0.000050		
	Nickel (Ni)-Dissolved (mg/L)	0.0011	0.00737		
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050		
	Potassium (K)-Dissolved (mg/L)	6.99	0.49		
	Selenium (Se)-Dissolved (mg/L)	0.00191	<0.000050		
	Silicon (Si)-Dissolved (mg/L)	5.70	8.41		
	Silver (Ag)-Dissolved (mg/L)	<0.000020 ^{DLA}	<0.000010		
	Sodium (Na)-Dissolved (mg/L)	9.50	5.43		
	Strontium (Sr)-Dissolved (mg/L)	0.894	0.471		
	Sulfur (S)-Dissolved (mg/L)	432	270		
	Thallium (Tl)-Dissolved (mg/L)	0.000559	<0.000010		
	Tin (Sn)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00010		
	Titanium (Ti)-Dissolved (mg/L)	<0.00060 ^{DLA}	<0.00030		
	Uranium (U)-Dissolved (mg/L)	0.00833	<0.000010		
	Vanadium (V)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00050		
	Zinc (Zn)-Dissolved (mg/L)	0.254	3.62		
	Zirconium (Zr)-Dissolved (mg/L)	<0.00060 ^{DLA}	<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)
Duplicate	Cyanate	DLA	L1673876-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Bismuth (Bi)-Total	DLA	L1673876-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -6, -7, -8, -9
Duplicate	Silver (Ag)-Total	DLA	L1673876-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -6, -7, -8, -9
Duplicate	Tin (Sn)-Total	DLA	L1673876-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -6, -7, -8, -9
Duplicate	Cyanate	DLIS	L1673876-15, -16, -17, -18, -19, -20, -21, -22, -23, -24, -25, -26, -27
Matrix Spike	Calcium (Ca)-Total	MS-B	L1673876-1, -2, -3, -4, -5
Matrix Spike	Magnesium (Mg)-Total	MS-B	L1673876-1, -2, -3, -4, -5
Matrix Spike	Silicon (Si)-Total	MS-B	L1673876-1, -2, -3, -4, -5
Matrix Spike	Sulfur (S)-Total	MS-B	L1673876-1, -2, -3, -4, -5
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Lithium (Li)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L1673876-1, -2, -3, -4, -5
Matrix Spike	Sodium (Na)-Total	MS-B	L1673876-1, -2, -3, -4, -5
Matrix Spike	Strontium (Sr)-Total	MS-B	L1673876-1, -2, -3, -4, -5
Matrix Spike	Uranium (U)-Total	MS-B	L1673876-1, -2, -3, -4, -5
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Iron (Fe)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1673876-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1673876-1, -10, -11, -12, -13, -14, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1673876-25, -26, -27

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Barium (Ba)-Total	MS-B	L1673876-25, -26, -27
Matrix Spike	Copper (Cu)-Total	MS-B	L1673876-25, -26, -27
Matrix Spike	Sodium (Na)-Total	MS-B	L1673876-25, -26, -27
Matrix Spike	Strontium (Sr)-Total	MS-B	L1673876-25, -26, -27
Matrix Spike	Zinc (Zn)-Total	MS-B	L1673876-25, -26, -27
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Zinc (Zn)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Antimony (Sb)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1673876-25, -26, -27
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1673876-25, -26, -27

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
DLIS	Detection Limit Adjusted: Insufficient Sample
DLM	Detection Limit Adjusted due to sample matrix effects.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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.			
CL-IC-N-WR	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			

Reference Information

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.			
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-WR	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-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.			
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-DIS-LOW-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA 3005A/6010B
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 filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
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.			
MET-TOT-LOW-ICP-VA	Water	Total Metals in Water by ICPOES	EPA 3005A/6010B
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 procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
NH3-F-VA	Water	Ammonia in Water by Fluorescence	APHA 4500 NH3-NITROGEN (AMMONIA)

Reference Information

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-WR 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-WR 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.

S-DIS-ICP-VA Water Dissolved Sulfur in Water by ICPOES EPA SW-846 3005A/6010B

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 procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

S-TOT-ICP-VA Water Total Sulfur in Water by ICPOES EPA SW-846 3005A/6010B

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 procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

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

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

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".

TSS-MAN-WR Water Total Suspended Solids by Gravimetric APHA 2540 D

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids are determined by filtering a sample through a glass fibre filter and drying the filter at 104 degrees celsius.

** 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
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

1 2 3 4

Reference Information

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.



Report To Company: EDI Contact: Meghan Marjanovic 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: <u>mmarjanovic@edynamics.com</u> Email 2: <u>Emilie.Hamm@gov.yk.ca</u> Email 3: <u>erik.plt@gov.yk.ca</u>			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: _____																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Project Information ALS Quote #: Q49310 Job #: MOUNT NANSEN 15-Y-0146 PO / AFE: LSD:			Oil and Gas Required Fields (client use) Approver ID: _____ Cost Center: _____ GL Account: _____ Routing Code: _____ Activity Code: _____ Location: _____ ALS Contact: Sean Slugget Sampler: _____			<table border="1"> <thead> <tr> <th></th> <th>P</th> <th>P</th> <th>P</th> <th>P</th> <th>P</th> <th>F/P</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Number of Containers</th> </tr> </thead> <tbody> <tr> <td>ALK-PCT-VA-EC-PCT-VA-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><td></td><td></td> </tr> <tr> <td>ANIONS-ALL-IC-WR-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><td></td> </tr> <tr> <td>CN-WAD-CFA-VA-CN-T-CFA-VA</td> 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Drinking Water (DW) Samples¹ (client use) Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Special Instructions / Specify Criteria to add on report (client Use)			SAMPLE CONDITION AS RECEIVED (lab use only) Frozen <input type="checkbox"/> SIF Observations <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice packs <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Custody seal intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cooling Initiated <input type="checkbox"/> INITIAL COOLER TEMPERATURES °C: 11.7, 5.6, 3.4, 2.3, 3.5, 3.0, 14.0 (Coolers) 7°C Avg FINAL COOLER TEMPERATURES °C:																																																																																																																																																																																																																																																																																																																																																																																																																																				
SHIPMENT RELEASE (client use) Released by: <u>BRODIE SMITH</u> Date: <u>15 SEPT 2015</u> Time: <u>13:00</u>			INITIAL SHIPMENT RECEPTION (lab use only) Received by: <u>[Signature]</u> Date: <u>15 SEPT 2015</u> Time: <u>12:00</u>			FINAL SHIPMENT RECEPTION (lab use only) Received by: <u>[Signature]</u> Date: <u>17 SEPT 2015</u> Time: <u>14:35</u>																																																																																																																																																																																																																																																																																																																																																																																																																																				



L1673876-COFC

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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:	Meghan Marjanovic	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 checked="" 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 mmarjanovic@edynamics.com		Specify Date Required for E2,E or P:	
		Email 2 Emilie.Hamm@gov.yk.ca			
		Email 3 erik.plt@gov.yk.ca			

Invoice To		Invoice Distribution		Analysis Request											
Same as Report To <input checked="" type="checkbox"/> Yes <input checked="" 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 sjenner@edynamics.com													
Company: EDI		Email 2 mmarjanovic@edynamics.com													
Contact: S Jenner															
Project Information				Oil and Gas Required Fields (client use)											
ALS Quote #: Q49310		Approver ID:		Cost Center:											
Job #: MOUNT NANSEN 15-Y-0146		GL Account:		Routing Code:											
PO / AFE:		Activity Code:													
LSD:		Location:													
ALS Lab Work Order # (lab use only)		ALS Contact: Sean Slugget		Sampler:											

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	ALK-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	NH3-F-VA	MET-T-BCMDG-VA	MET-D-BCMDG-VA	IONBALANC-VA-TDS-CALC-VA	Number of Containers	
	WQ-PC-D	14-Sep-15	13:20	Water	R	R	R	R	R	R	R	R	R		9
	WQ-DC-R	14-Sep-15	19:25	Water	R	R	R	R	R	R	R	R	R		9
	WQ-VC-R	14-Sep-15	16:50	Water	R	R	R	R	R	R	R	R	R		9
	WQ-VC-UMN	14-Sep-15	18:20	Water	R	R	R	R	R	R	R	R	R		9
	WQ-DC-11	15-Sep-15	11:55	Water	R	R	R	R	R	R	R	R	R		9
	WQ-DC-15	15-Sep-15	11:30	Water	R	R	R	R	R	R	R	R	R		9
		-Sep-15		Water	R	R	R	R	R	R	R	R	R		9

Drinking Water (DW) Samples¹ (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 checked="" 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 type="checkbox"/> Yes <input checked="" 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: 15.0, 23.34, 22.0	
				FINAL COOLER TEMPERATURES °C: 4.0, 2.0, 2.0	

SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		FINAL SHIPMENT RECEPTION (lab use only)	
Released by: KRODIE SMITH	Date: 16 SEPT 15	Time: 13:00	Received by: [Signature]	Date: 16 SEPT 15	Time: 13:00
				Received by: [Signature]	Date: 16 SEPT 15
				Time: 14:35	



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Report To Company: EDI Contact: Meghan Marjanovic 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 checked="" 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 <u>mmarjanovic@edynamics.com</u> Email 2 <u>Emilie.Hamm@gov.yk.ca</u> Email 3 <u>erik.pit@gov.yk.ca</u>	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 <u>sjenner@edynamics.com</u> Email 2 <u>mmarjanovic@edynamics.com</u>	Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																					
Project Information ALS Quote #: Q49310 Job #: MOUNT NANSEN 15-Y-0146 PO / AFE: LSD:		Number of Containers																					
Oil and Gas Required Fields (client use) Approver ID: Cost Center: GL Account: Routing Code: Activity Code: Location:																							
ALS Lab Work Order # (lab use only) _____ ALS Contact: Sean Stugget Sampler:																							
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	ALK-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 NH3-F-VA MET-T-BCMDG-VA MET-D-BCMDG-VA IONBALANC-VA, TDS-CALC-VA																		
	WQ-PC-U	14 - Sep -15	13:40	Water	R	R	R	R	R	R	R	R	R	R	R							9	
	WQ-DC-U	15 - Sep -15	14:40	Water	R	R	R	R	R	R	R	R	R	R	R								9
	TRAVEL BLANK	- - Sep -15	- - -	Water	R	R	R	R	R	R	R	R	R	R	R								9
	WQ-BC	15 - Sep -15	9:10	Water	R	R	R	R	R	R	R	R	R	R	R								9
	WQ-DC-D16	15 - Sep -15	13:20	Water	R	R	R	R	R	R	R	R	R	R	R								9
	WQ-DC-10	15 - Sep -15	12:00	Water	R	R	R	R	R	R	R	R	R	R	R								9
		- Sep -15		Water	R	R	R	R	R	R	R	R	R	R	R								9
Drinking Water (DW) Samples¹ (client use)		Special Instructions / Specify Criteria to add on report (client use)		SAMPLE CONDITION AS RECEIVED (lab use only) Frozen <input checked="" type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/> Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/> Cooling Initiated <input checked="" type="checkbox"/>																			
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		INITIAL SHIPMENT RECEPTION (lab use only) Received by: <u>Shafiq</u> Date: <u>16 Sep 15</u> Time: <u>13:00</u>					FINAL SHIPMENT RECEPTION (lab use only) Received by: <u>Shafiq</u> Date: <u>Sept 17</u> Time: <u>1435</u>														
SHIPMENT RELEASE (client use) Released by: <u>BRODIE SMITH</u> Date: <u>16 SEPT 2015</u> Time: <u>13:00</u>				Received by: <u>Shafiq</u> Date: <u>16 Sep 15</u> Time: <u>13:00</u>					Received by: <u>Shafiq</u> Date: <u>Sept 17</u> Time: <u>1435</u>														



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: Meghan Marjanovic		Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input checked="" 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 checked="" 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: <u>mmarjanovic@edynamics.com</u>				Specify Date Required for E2, E or P:											
		Email 2: <u>Emilie.Hamm@gov.yk.ca</u>															
		Email 3: <u>erik.pit@gov.yk.ca</u>															
Invoice To		Invoice Distribution				Analysis Request											
Same as Report To <input checked="" type="checkbox"/> Yes <input checked="" 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: <u>sjenner@edynamics.com</u>															
Company: EDI		Email 2: <u>mmarjanovic@edynamics.com</u>															
Contact: S Jenner																	
Project Information		Oil and Gas Required Fields (client use)															
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Job #: MOUNT NANSEN 15-Y-0146		GL Account:		Routing Code:													
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ALS Lab Work Order # (lab use only)		ALS Contact: Sean Slugget		Sampler:													
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	ALK-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	NH3-F-VA	MET-T-BCMDG-VA	MET-D-BCMDG-VA	IONBALANC-VA-TDS-CALC-VA	Number of Containers			
	WQ-TP	15-Sep-15	16:20	Water	R	R	R	R	R	R	R	R	R				9
	WQ-DC-14	15-Sep-15	11:10	Water	R	R	R	R	R	R	R	R	R				9
	WQ-DC-B	15-Sep-15	16:46	Water	R	R	R	R	R	R	R	R	R				9
	Field Blank	15-Sep-15	17:00	Water	R	R	R	R	R	R	R	R	R				9
	WQ-DC-DX	15-Sep-15	10:30	Water	R	R	R	R	R	R	R	R	R				9
	WQ-DC-R-F	14-Sep-15	19:40	Water	R	R	R	R	R	R	R	R	R				9
		-Sep-15		Water	R	R	R	R	R	R	R	R	R				9
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 checked="" 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 type="checkbox"/> Yes <input checked="" 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: 12.20 24.20 33.20 FINAL COOLER TEMPERATURES °C: 14.00 22.00 7.00											
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)				FINAL SHIPMENT RECEPTION (lab use only)											
Released by: SCOTT DILLING		Date: 16-SEPT		Time: 1300h		Received by: [Signature]		Date: 16-SEPT-15		Time: 1300		Received by: [Signature]		Date: SEPT 17		Time: 1435	