HEMMERA ENVIROCHEM INC.
ATTN: Natasha Sandys
230 - 2237 2nd Avenue
Whitehorse YK Y1A 0K7

Date Received: 06-JUN-16
Report Date: 16-JUN-16 17:17 (MT)
Version: FINAL REV. 2

Client Phone: 867-456-4865

Certificate of Analysis

Lab Work Order #: L1778753

Project P.O. #:	NOT SUBMITTED
Job Reference:	1343-005.30
C of C Numbers:	1-1343-005.30, 2-1343-005.30, 3-1343-005.30, 4-1343-005.30, 5-1343-005.30
Legal Site Desc:	

Comments:

16-JUN-2016 This report replaces the previous version and contains a change to the Acidity result for the sample identified as ALS ID -24.

Brent Mack, B.Sc.
Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1778753-1	L1778753-2	L1778753-3	L1778753-4	L1778753-5
	Description	Water	Water	Water	Water	Water
	Sampled Date	02-JUN-16	02-JUN-16	02-JUN-16	02-JUN-16	02-JUN-16
	Sampled Time	10:20	13:32	13:05	14:30	13:55
	Client ID	P01-02A	P01-02B	P01-11	P05-01-02	P05-01-04
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	734	579	3710	3660	3640
	Hardness (as CaCO3) (mg/L)	400	317	2640	2440	2430
	pH (pH)	7.89	7.87	6.45	6.47	6.47
	Total Suspended Solids (mg/L)	2.8	7.2	88.8	13.8	61.2
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	9.0	7.6	304	266	295
	Alkalinity, Total (as CaCO3) (mg/L)	292	250	389	415	420
	Chloride (Cl) (mg/L)	<0.50	<0.50	<5.0 DLDS	<5.0 DLDS	<5.0 DLDS
	Sulfate (SO4) (mg/L)	131	76.3	2270	2280	2290
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0010	<0.0010	<0.010 DLA	<0.010 DLA	<0.010 DLA
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0010 DLA	<0.0010 DLA	<0.0010 DLA
	Arsenic (As)-Dissolved (mg/L)	0.00062	0.00310	0.0505	<0.0010 DLA	0.0034
	Barium (Ba)-Dissolved (mg/L)	0.0644	0.0458	0.0251	0.0228	0.0169
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0010 DLA	<0.0010 DLA	<0.0010 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00050 DLA	<0.00050 DLA	<0.00050 DLA
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.10 DLA	<0.10 DLA	<0.10 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.0000689	<0.0000050	<0.000050 DLA	<0.000050 DLA	<0.000050 DLA
	Calcium (Ca)-Dissolved (mg/L)	108	76.6	752	724	724
	Cesium (Cs)-Dissolved (mg/L)	<0.000010	0.000056	0.00014	0.00039	0.00021
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0010 DLA	<0.0010 DLA	<0.0010 DLA
	Cobalt (Co)-Dissolved (mg/L)	0.00065	<0.00010	0.0179	<0.0010 DLA	0.0273
	Copper (Cu)-Dissolved (mg/L)	0.00031	<0.00020	<0.0020 DLA	<0.0020 DLA	<0.0020 DLA
	Iron (Fe)-Dissolved (mg/L)	0.012	1.56	111	39.3	57.6
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00050 DLA	<0.00050 DLA	<0.00050 DLA
	Lithium (Li)-Dissolved (mg/L)	0.0069	0.0064	0.029	0.041	0.031
	Magnesium (Mg)-Dissolved (mg/L)	31.7	30.6	186	153	152
	Manganese (Mn)-Dissolved (mg/L)	1.10	0.120	68.0	60.0	64.9
	Molybdenum (Mo)-Dissolved (mg/L)	0.00109	0.000669	0.00076	0.00056	0.00084
	Nickel (Ni)-Dissolved (mg/L)	0.00225	<0.00050	0.0474	<0.0050 DLA	0.0105
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.50 DLA	<0.50 DLA	<0.50 DLA
	Potassium (K)-Dissolved (mg/L)	2.84	1.97	9.16	8.35	8.17
	Rubidium (Rb)-Dissolved (mg/L)	0.00133	0.00391	0.0124	0.0128	0.0090
	Selenium (Se)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00050 DLA	<0.00050 DLA	<0.00050 DLA
	Silicon (Si)-Dissolved (mg/L)	5.39	4.80	14.4	12.3	12.9
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.00010 DLA	<0.00010 DLA	<0.00010 DLA
	Sodium (Na)-Dissolved (mg/L)	6.67	4.61	37.5	37.0	34.9
	Strontium (Sr)-Dissolved (mg/L)	0.338	0.289	1.85	1.87	1.87

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1778753-6 Water 02-JUN-16 12:05 P05-02	L1778753-7 Water 02-JUN-16 11:15 P05-03	L1778753-8 Water 02-JUN-16 10:20 DUP3	L1778753-9 Water 02-JUN-16 15:48 P01-01A	L1778753-10 Water 02-JUN-16 16:15 P01-01B
WATER						
Physical Tests	Conductivity (uS/cm)	3460	2140	718	1930	1540
	Hardness (as CaCO3) (mg/L)	2340	1270	399	1150	924
	pH (pH)	6.59	7.30	8.04	7.43	7.60
	Total Suspended Solids (mg/L)	11.2	12.0	3.4	2.2	2.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	213	42.6	5.7	28.9	21.6
	Alkalinity, Total (as CaCO3) (mg/L)	466	355	298	310	317
	Chloride (Cl) (mg/L)	<5.0 DLDS	<2.5 DLDS	<0.50	<2.5 DLDS	<2.5 DLDS
	Sulfate (SO4) (mg/L)	2200	1090	130	987	664
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.012	<0.0050 DLA	<0.0010	0.0023	0.0016
	Antimony (Sb)-Dissolved (mg/L)	<0.0010 DLA	<0.00050 DLA	<0.00010	<0.00020 DLA	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.0016	0.00225	0.00062	0.00021	0.00194
	Barium (Ba)-Dissolved (mg/L)	0.0217	0.153	0.0648	0.0336	0.0485
	Beryllium (Be)-Dissolved (mg/L)	<0.0010 DLA	<0.00050 DLA	<0.00010	<0.00020 DLA	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050 DLA	<0.00025 DLA	<0.000050	<0.00010 DLA	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.10 DLA	<0.050 DLA	<0.010	<0.020 DLA	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000235	0.000698	0.0000703	0.00116	0.0000124
	Calcium (Ca)-Dissolved (mg/L)	704	378	108	341	270
	Cesium (Cs)-Dissolved (mg/L)	0.00010	<0.000050 DLA	<0.000010	<0.000020 DLA	0.000494
	Chromium (Cr)-Dissolved (mg/L)	<0.0010 DLA	<0.00050 DLA	<0.00010	<0.00020 DLA	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.0249	0.00533	0.00065	0.00346	0.00025
	Copper (Cu)-Dissolved (mg/L)	<0.0020 DLA	<0.0010 DLA	0.00031	<0.00040 DLA	<0.00020
	Iron (Fe)-Dissolved (mg/L)	31.6	4.78	0.012	<0.020 DLA	0.697
	Lead (Pb)-Dissolved (mg/L)	<0.00050 DLA	<0.00025 DLA	<0.000050	<0.00010 DLA	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.032	0.0092	0.0069	0.0147	0.0120
	Magnesium (Mg)-Dissolved (mg/L)	141	79.0	31.4	73.4	60.7
	Manganese (Mn)-Dissolved (mg/L)	59.7	21.5	1.11	10.6	0.224
	Molybdenum (Mo)-Dissolved (mg/L)	0.00056	0.00246	0.00109	0.00069	0.000835
	Nickel (Ni)-Dissolved (mg/L)	0.0291	0.0075	0.00225	0.0184	0.00096
	Phosphorus (P)-Dissolved (mg/L)	<0.50 DLA	<0.25 DLA	<0.050	<0.10 DLA	<0.050
	Potassium (K)-Dissolved (mg/L)	8.29	4.97	2.83	6.56	4.55
	Rubidium (Rb)-Dissolved (mg/L)	0.0102	<0.0010 DLA	0.00137	0.00108	0.00225
	Selenium (Se)-Dissolved (mg/L)	<0.00050 DLA	<0.00025 DLA	<0.000050	<0.00010 DLA	<0.000050
	Silicon (Si)-Dissolved (mg/L)	12.1	8.20	5.52	7.46	6.30
	Silver (Ag)-Dissolved (mg/L)	<0.00010 DLA	<0.000050 DLA	<0.000010	<0.000020 DLA	<0.000010
	Sodium (Na)-Dissolved (mg/L)	36.9	25.6	6.55	20.4	24.9
	Strontium (Sr)-Dissolved (mg/L)	1.81	0.914	0.343	1.05	0.927

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1778753-11	L1778753-12	L1778753-13	L1778753-14	L1778753-15
	Description	Water	Water	Water	Water	Water
	Sampled Date	02-JUN-16	02-JUN-16	02-JUN-16	02-JUN-16	03-JUN-16
	Sampled Time	16:15	16:15	14:20	14:55	16:30
	Client ID	DUP4	FB2	X16A	X16B	X17A
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	1540	<2.0	354	415	634
	Hardness (as CaCO3) (mg/L)	920	<0.50	193	225	356
	pH (pH)	7.57	5.16	7.95	8.04	7.65
	Total Suspended Solids (mg/L)	2.4	<1.0	1.2	39.0	3.2
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	22.8	<1.0	4.4	3.9	16.0
	Alkalinity, Total (as CaCO3) (mg/L)	331	<1.0	181	208	307
	Chloride (Cl) (mg/L)	<2.5 DLDS	<0.50	<0.50	<0.50	<0.50
	Sulfate (SO4) (mg/L)	666	<0.30	25.6	28.0	65.9
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0024	<0.0010	0.0020	<0.0010	<0.0010
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	0.00017	0.00011	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00182	<0.00010	0.00019	0.00013	0.00040
	Barium (Ba)-Dissolved (mg/L)	0.0491	<0.000050	0.0900	0.136	0.246
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.0000073	<0.0000050	0.0000352	0.0000110	0.000146
	Calcium (Ca)-Dissolved (mg/L)	271	<0.050	54.5	61.5	99.1
	Cesium (Cs)-Dissolved (mg/L)	0.000502	<0.000010	<0.000010	0.000058	<0.000010
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	0.00018	0.00018	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00024	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	<0.00020	<0.00020	0.00037	<0.00020	0.00026
	Iron (Fe)-Dissolved (mg/L)	0.681	<0.010	<0.010	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0121	<0.0010	0.0025	0.0031	0.0046
	Magnesium (Mg)-Dissolved (mg/L)	59.4	<0.0050	13.9	17.3	26.4
	Manganese (Mn)-Dissolved (mg/L)	0.217	<0.00010	0.00040	<0.00010	0.324
	Molybdenum (Mo)-Dissolved (mg/L)	0.000833	<0.000050	0.00194	0.00151	0.00119
	Nickel (Ni)-Dissolved (mg/L)	0.00087	<0.00050	<0.00050	<0.00050	0.00165
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	4.51	<0.050	1.11	1.21	1.49
	Rubidium (Rb)-Dissolved (mg/L)	0.00222	<0.00020	0.00110	0.00357	<0.00020
	Selenium (Se)-Dissolved (mg/L)	<0.000050	<0.000050	0.00117	0.00193	<0.000050
	Silicon (Si)-Dissolved (mg/L)	6.20	<0.050	4.36	4.59	6.18
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	24.4	<0.050	1.98	1.90	2.85
	Strontium (Sr)-Dissolved (mg/L)	0.938	<0.00020	0.159	0.194	0.306

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1778753-16	L1778753-17	L1778753-18	L1778753-19	L1778753-20
	Description	Water	Water	Water	Water	Water
	Sampled Date	03-JUN-16	02-JUN-16	02-JUN-16	03-JUN-16	03-JUN-16
	Sampled Time	17:00	15:40	16:20	15:15	13:46
	Client ID	X17B	X18A	X18B	P09-ETA-2	P96-8A
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	1580	1640	1800	5940	8430
	Hardness (as CaCO3) (mg/L)	871	1020	1090	4440	5720
	pH (pH)	7.35	7.43	7.47	6.08	3.70
	Total Suspended Solids (mg/L)	1330	10.0	2.2	60.8	3.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	53.5	28.4	27.9	753	2000
	Alkalinity, Total (as CaCO3) (mg/L)	557	330 DLDS	351 DLDS	109	<1.0
	Chloride (Cl) (mg/L)	9.7	<2.5	<2.5	11	11
	Sulfate (SO4) (mg/L)	416	725	841	5010	8170
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0014	0.0026	<0.0020 DLA	0.089	27.5
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.0050 DLA	<0.020 DLA
	Arsenic (As)-Dissolved (mg/L)	0.00016	0.00346	0.00025	0.0750	<0.020 DLA
	Barium (Ba)-Dissolved (mg/L)	0.138	0.115	0.0787	0.0094	0.011
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.0050 DLA	<0.020 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00010 DLA	<0.0025 DLA	<0.010 DLA
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.020 DLA	<0.50 DLA	<2.0 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.0000060	<0.0000050	0.000201	<0.00025 DLA	0.145
	Calcium (Ca)-Dissolved (mg/L)	241	285	313	475	385
	Cesium (Cs)-Dissolved (mg/L)	0.000111	<0.000010	<0.000020 DLA	<0.00050 DLA	<0.0020 DLA
	Chromium (Cr)-Dissolved (mg/L)	0.00023	<0.00010	<0.00020 DLA	<0.0050 DLA	<0.020 DLA
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	0.00051	0.00050	0.685	1.86
	Copper (Cu)-Dissolved (mg/L)	0.00041	<0.00020	0.00051	<0.010 DLA	0.230
	Iron (Fe)-Dissolved (mg/L)	3.90	3.05	0.364	267	247
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00010 DLA	<0.0025 DLA	0.223
	Lithium (Li)-Dissolved (mg/L)	0.0568	0.0103	0.0117	0.092	0.23
	Magnesium (Mg)-Dissolved (mg/L)	65.2	75.6	74.6	790	1150
	Manganese (Mn)-Dissolved (mg/L)	0.753	1.28	0.502	82.5	130
	Molybdenum (Mo)-Dissolved (mg/L)	0.000266	0.000681	0.00041	<0.0025 DLA	<0.010 DLA
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	0.00057	0.0067	0.605	2.17
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.10 DLA	<2.5 DLA	<10 DLA
	Potassium (K)-Dissolved (mg/L)	4.30	6.06	6.28	8.9	27
	Rubidium (Rb)-Dissolved (mg/L)	0.00581	0.00079	0.00041	0.014	<0.040 DLA
	Selenium (Se)-Dissolved (mg/L)	0.000480	<0.000050	0.00013	0.0039	<0.010 DLA
	Silicon (Si)-Dissolved (mg/L)	7.35	6.77	6.75	12.4	31
	Silver (Ag)-Dissolved (mg/L)	0.000014	<0.000010	<0.000020 DLA	<0.00050 DLA	<0.0020 DLA
	Sodium (Na)-Dissolved (mg/L)	50.9	15.7	16.7	48.0	59
	Strontium (Sr)-Dissolved (mg/L)	0.967	0.974	1.03	3.73	3.70

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1778753-21	L1778753-22	L1778753-23	L1778753-24	L1778753-25
	Description	Water	Water	Water	Water	Water
	Sampled Date	03-JUN-16	02-JUN-16	02-JUN-16	02-JUN-16	02-JUN-16
	Sampled Time	14:10	10:06	11:55	12:16	09:25
	Client ID	P96-8B	P01-03	P01-04A	P01-04B	X24-96D
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	8650	3720	1210	2930	2620
	Hardness (as CaCO3) (mg/L)	5760	1880	573	1970	1570
	pH (pH)	5.11	5.93	6.99	7.10	6.11
	Total Suspended Solids (mg/L)	9.0	155	<1.0	24.8	45.2
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	2020	789	114	51.7	360
	Alkalinity, Total (as CaCO3) (mg/L)	4.6	78.1	688	399	116
	Chloride (Cl) (mg/L)	12	<10 DLDS	8.4	<5.0 DLDS	<5.0 DLDS
	Sulfate (SO4) (mg/L)	8500	2660	33.5	1720	1590
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	5.33	<0.010 DLA	0.0064	<0.0050 DLA	<0.010 DLA
	Antimony (Sb)-Dissolved (mg/L)	<0.020 DLA	<0.0010 DLA	<0.00010	<0.00050 DLA	<0.0010 DLA
	Arsenic (As)-Dissolved (mg/L)	<0.020 DLA	<0.0010 DLA	<0.00010	0.00224	<0.0010 DLA
	Barium (Ba)-Dissolved (mg/L)	0.017	0.0148	0.461	0.0173	0.0153
	Beryllium (Be)-Dissolved (mg/L)	<0.020 DLA	<0.0010 DLA	0.00027	<0.00050 DLA	<0.0010 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.010 DLA	<0.00050 DLA	<0.000050	<0.00025 DLA	<0.00050 DLA
	Boron (B)-Dissolved (mg/L)	<2.0 DLA	<0.10 DLA	0.020	<0.050 DLA	<0.10 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.153	0.00147	<0.0000050	<0.000025 DLA	0.00141
	Calcium (Ca)-Dissolved (mg/L)	387	438	142	617	404
	Cesium (Cs)-Dissolved (mg/L)	<0.0020 DLA	<0.00010 DLA	0.00168	0.000226	<0.00010 DLA
	Chromium (Cr)-Dissolved (mg/L)	<0.020 DLA	<0.0010 DLA	<0.00010	<0.00050 DLA	<0.0010 DLA
	Cobalt (Co)-Dissolved (mg/L)	1.80	0.313	0.00012	0.00683	0.238
	Copper (Cu)-Dissolved (mg/L)	<0.040 DLA	<0.0020 DLA	<0.00020	<0.0010 DLA	<0.0020 DLA
	Iron (Fe)-Dissolved (mg/L)	331	463	0.399	25.8	184
	Lead (Pb)-Dissolved (mg/L)	0.125	<0.00050 DLA	<0.000050	<0.00025 DLA	<0.00050 DLA
	Lithium (Li)-Dissolved (mg/L)	0.21	0.035	0.171	0.0265	0.029
	Magnesium (Mg)-Dissolved (mg/L)	1170	191	53.1	105	136
	Manganese (Mn)-Dissolved (mg/L)	126	80.8	0.270	17.1	64.1
	Molybdenum (Mo)-Dissolved (mg/L)	<0.010 DLA	0.00055	<0.000050	0.00050	<0.00050 DLA
	Nickel (Ni)-Dissolved (mg/L)	2.09	0.150	<0.00050	0.0101	0.152
	Phosphorus (P)-Dissolved (mg/L)	<10 DLA	<0.50 DLA	<0.050	<0.25 DLA	<0.50 DLA
	Potassium (K)-Dissolved (mg/L)	26	8.24	3.40	6.69	5.86
	Rubidium (Rb)-Dissolved (mg/L)	<0.040 DLA	<0.0020 DLA	0.00805	0.0091	<0.0020 DLA
	Selenium (Se)-Dissolved (mg/L)	<0.010 DLA	<0.00050 DLA	0.00475	<0.00025 DLA	<0.00050 DLA
	Silicon (Si)-Dissolved (mg/L)	18	11.8	9.00	9.32	9.30
	Silver (Ag)-Dissolved (mg/L)	<0.0020 DLA	<0.00010 DLA	0.000207	<0.000050 DLA	<0.00010 DLA
	Sodium (Na)-Dissolved (mg/L)	63	26.6	72.7	39.8	28.0
	Strontium (Sr)-Dissolved (mg/L)	3.77	2.06	1.99	1.59	1.77

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID	L1778753-26	L1778753-27	L1778753-28	L1778753-29	L1778753-30
		Description	Water	Water	Water	Water	Water
		Sampled Date	02-JUN-16	02-JUN-16	03-JUN-16	03-JUN-16	03-JUN-16
		Sampled Time	10:43	11:12	12:10	11:45	11:10
		Client ID	X25-96A	X25-96B	BH14A	BH14B	CH15-107-MW029
WATER							
Physical Tests	Conductivity (uS/cm)		1780	1800	3780	3380	1750
	Hardness (as CaCO3) (mg/L)		1060	1050	2960	2600	1190
	pH (pH)		7.45	7.97	7.18	7.74	8.07
	Total Suspended Solids (mg/L)		24.4	10.0	5.8	63.4	5.4
Anions and Nutrients	Acidity (as CaCO3) (mg/L)		30.7	12.0	106	43.2	7.6
	Alkalinity, Total (as CaCO3) (mg/L)		302	302	538	492	205
	Chloride (Cl) (mg/L)		<2.5 DLDS	<2.5 DLDS	<10 DLDS	<10 DLDS	<2.5 DLDS
	Sulfate (SO4) (mg/L)		911	927	2630	2080	958
Dissolved Metals	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		<0.0050 DLA	<0.0020 DLA	0.0064	0.0022	0.0055
	Antimony (Sb)-Dissolved (mg/L)		<0.00050 DLA	<0.00020 DLA	<0.00050 DLA	<0.00020 DLA	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00069	0.00126	<0.00050 DLA	<0.00020 DLA	<0.00010
	Barium (Ba)-Dissolved (mg/L)		0.0679	0.0274	0.0138	0.0166	0.0486
	Beryllium (Be)-Dissolved (mg/L)		<0.00050 DLA	<0.00020 DLA	<0.00050 DLA	<0.00020 DLA	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)		<0.00025 DLA	<0.00010 DLA	<0.00025 DLA	<0.00010 DLA	<0.000050
	Boron (B)-Dissolved (mg/L)		<0.050 DLA	<0.020 DLA	<0.050 DLA	<0.020 DLA	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.000140	<0.000010 DLA	0.00312	0.000051	0.000155
	Calcium (Ca)-Dissolved (mg/L)		320	345	525	533	147
	Cesium (Cs)-Dissolved (mg/L)		<0.000050 DLA	0.000033	0.00325	0.00360	0.000191
	Chromium (Cr)-Dissolved (mg/L)		<0.00050 DLA	<0.00020 DLA	<0.00050 DLA	<0.00020 DLA	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.0205	<0.00020 DLA	<0.00050 DLA	<0.00020 DLA	0.00013
	Copper (Cu)-Dissolved (mg/L)		<0.0010 DLA	<0.00040 DLA	0.0014	0.00599	0.00325
	Iron (Fe)-Dissolved (mg/L)		14.5	3.25	<0.050 DLA	<0.020 DLA	<0.010
	Lead (Pb)-Dissolved (mg/L)		<0.00025 DLA	<0.00010 DLA	0.00289	0.00276	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.0070	0.0109	0.118	0.0808	0.0305
	Magnesium (Mg)-Dissolved (mg/L)		61.9	45.5	401	309	200
	Manganese (Mn)-Dissolved (mg/L)		22.7	0.304	0.508	0.0142	0.00035
	Molybdenum (Mo)-Dissolved (mg/L)		0.00105	0.00033	0.00053	0.00024	0.000492
	Nickel (Ni)-Dissolved (mg/L)		0.0174	<0.0010 DLA	0.368	0.0016	0.0144
	Phosphorus (P)-Dissolved (mg/L)		<0.25 DLA	<0.10 DLA	<0.25 DLA	<0.10 DLA	<0.050
	Potassium (K)-Dissolved (mg/L)		5.63	4.37	4.33	4.25	3.63
	Rubidium (Rb)-Dissolved (mg/L)		<0.0010 DLA	0.00610	0.0188	0.0184	0.00242
	Selenium (Se)-Dissolved (mg/L)		<0.00025 DLA	<0.00010 DLA	0.00070	0.00072	0.00229
	Silicon (Si)-Dissolved (mg/L)		9.68	5.05	10.9	11.6	5.53
	Silver (Ag)-Dissolved (mg/L)		<0.000050 DLA	<0.000020 DLA	<0.000050 DLA	<0.000020 DLA	<0.000010
	Sodium (Na)-Dissolved (mg/L)		20.8	51.3	20.4	17.4	8.23
	Strontium (Sr)-Dissolved (mg/L)		0.823	0.676	3.34	3.38	0.683

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1778753-31	L1778753-32	L1778753-33	L1778753-34	L1778753-35
	Description	Water	Water	Water	Water	Water
	Sampled Date	03-JUN-16	03-JUN-16	03-JUN-16	03-JUN-16	03-JUN-16
	Sampled Time	10:35	10:05	09:35	08:45	08:45
	Client ID	CH15-107-MW030	CH15-107-MW032	CH15-107-MW033	CH15-107-MW034	DUP5
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	1920	2380	1850	917	919
	Hardness (as CaCO3) (mg/L)	1370	1480	1340	488	485
	pH (pH)	7.89	8.02	7.70	7.81	7.73
	Total Suspended Solids (mg/L)	4.4	7.0	4.4	17.0	18.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	11.6	10.2	14.8	10.4	11.4
	Alkalinity, Total (as CaCO3) (mg/L)	183	258	191	143	142
	Chloride (Cl) (mg/L)	<2.5 DLDS	11.2	<2.5 DLDS	1.00	1.01
	Sulfate (SO4) (mg/L)	1120	1310	1060	392	396
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0319	0.0076	0.0057	0.0067	0.0060
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	0.00030	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00010	<0.00020 DLA	0.00012	0.00011	<0.00010
	Barium (Ba)-Dissolved (mg/L)	0.0568	0.0252	0.0301	0.0319	0.0315
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00020 DLA	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.00010 DLA	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.020 DLA	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000159	0.000150	0.00103	0.0000274	0.0000297
	Calcium (Ca)-Dissolved (mg/L)	184	464	235	110	111
	Cesium (Cs)-Dissolved (mg/L)	0.000022	0.000167	0.000312	0.000051	0.000049
	Chromium (Cr)-Dissolved (mg/L)	0.00012	<0.00020 DLA	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	0.00720	<0.00010	0.00229	0.00225
	Copper (Cu)-Dissolved (mg/L)	0.00287	0.00149	0.00504	0.00266	0.00264
	Iron (Fe)-Dissolved (mg/L)	0.048	<0.020 DLA	<0.010	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)	0.000071	<0.00010 DLA	<0.000050	0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0291	0.0521	0.0313	0.0196	0.0197
	Magnesium (Mg)-Dissolved (mg/L)	221	77.1	182	51.9	50.7
	Manganese (Mn)-Dissolved (mg/L)	0.00150	1.92	0.00345	0.0561	0.0557
	Molybdenum (Mo)-Dissolved (mg/L)	0.000408	0.00556	0.000593	0.00227	0.00230
	Nickel (Ni)-Dissolved (mg/L)	0.0187	0.0189	0.0361	0.0194	0.0191
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.10 DLA	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	3.69	9.66	4.60	3.31	3.26
	Rubidium (Rb)-Dissolved (mg/L)	0.00157	0.0108	0.00515	0.00474	0.00462
	Selenium (Se)-Dissolved (mg/L)	0.00236	0.00024	0.00232	0.00278	0.00279
	Silicon (Si)-Dissolved (mg/L)	5.63	5.17	6.06	4.69	4.71
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000020 DLA	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	8.84	76.8	9.28	21.7	21.3
	Strontium (Sr)-Dissolved (mg/L)	0.794	1.99	0.971	0.645	0.646

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1778753-36 Water 03-JUN-16 08:45 FB3	L1778753-37 Water 01-JUN-16 12:30 CH14-107-MW007A	L1778753-38 Water 01-JUN-16 13:20 CH14-107-MW007B	L1778753-39 Water 01-JUN-16 10:30 CH14-107-MW009	L1778753-40 Water 01-JUN-16 11:35 CH14-107-MW010
WATER						
Physical Tests	Conductivity (uS/cm)	<2.0	3910	1660	1260	806
	Hardness (as CaCO3) (mg/L)	<0.50	2960	1060	727	391
	pH (pH)	5.30	6.55	6.56	6.41	6.15
	Total Suspended Solids (mg/L)	<1.0	19.4	9.0	4.6	19.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	<1.0	255	253	232	327
	Alkalinity, Total (as CaCO3) (mg/L)	<1.0	132 DLDS	231 DLDS	279	244
	Chloride (Cl) (mg/L)	<0.50	<10	<2.5	1.6	0.61
	Sulfate (SO4) (mg/L)	<0.30	3360	886	511	218
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0010	0.051	0.0437	0.0341	0.0635
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.0020 DLA	<0.00010	<0.00010	0.00014
	Arsenic (As)-Dissolved (mg/L)	<0.00010	0.0103	0.0130	0.00549	0.00697
	Barium (Ba)-Dissolved (mg/L)	<0.000050	0.0224	0.0330	0.0241	0.0230
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.0020 DLA	0.00054	0.00065	0.00239
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.0010 DLA	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.20 DLA	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	<0.0000050	0.0108	<0.0000050	0.0000142	<0.0000050
	Calcium (Ca)-Dissolved (mg/L)	<0.050	354	233	176	90.9
	Cesium (Cs)-Dissolved (mg/L)	<0.000010	<0.00020 DLA	0.000011	0.000101	0.00119
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.0020 DLA	0.00031	<0.00010	0.00021
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	0.0118	0.00495	0.00595	0.00424
	Copper (Cu)-Dissolved (mg/L)	<0.00020	<0.0040 DLA	<0.00020	<0.00020	<0.00020
	Iron (Fe)-Dissolved (mg/L)	<0.010	28.4	28.4	19.6	20.5
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.0010 DLA	0.000288	0.000100	0.000144
	Lithium (Li)-Dissolved (mg/L)	<0.0010	0.101	0.0465	0.0530	0.0851
	Magnesium (Mg)-Dissolved (mg/L)	<0.0050	504	116	69.7	39.9
	Manganese (Mn)-Dissolved (mg/L)	<0.00010	21.1	2.83	1.38	0.926
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050	<0.0010 DLA	0.000300	0.000191	0.000134
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	0.682	0.0392	0.0140	0.0181
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<1.0 DLA	0.086	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	<0.050	9.0	5.16	5.41	4.80
	Rubidium (Rb)-Dissolved (mg/L)	<0.00020	<0.0040 DLA	0.00348	0.00607	0.0155
	Selenium (Se)-Dissolved (mg/L)	<0.000050	<0.0010 DLA	<0.000050	<0.000050	<0.000050
	Silicon (Si)-Dissolved (mg/L)	<0.050	12.6	11.5	14.4	21.1
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.00020 DLA	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	<0.050	41.7	11.3	10.7	11.6
	Strontium (Sr)-Dissolved (mg/L)	<0.00020	1.39	0.882	0.642	0.493

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1778753-41 Water 01-JUN-16 10:30 DUP2	L1778753-42 Water 01-JUN-16 16:00 P96-7	L1778753-43 Water 01-JUN-16 16:15 S1A	L1778753-44 Water 02-JUN-16 08:40 S1B	L1778753-45 Water 01-JUN-16 13:05 S2A
WATER						
Physical Tests	Conductivity (uS/cm)	1270	2710	1800	789	1840
	Hardness (as CaCO3) (mg/L)	736	2000	1040	393	1100
	pH (pH)	6.52	7.94	6.12	7.63	6.89
	Total Suspended Solids (mg/L)	4.2	1.6	6.0	12.6	425
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	156	11.7	316	25.0	99.3
	Alkalinity, Total (as CaCO3) (mg/L)	295	245	242	321	267
	Chloride (Cl) (mg/L)	1.6	<5.0 DLDS	<2.5 DLDS	<0.50	<2.5 DLDS
	Sulfate (SO4) (mg/L)	515	1840	958	145	1050
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0347	<0.0020 DLA	0.0200	0.0066	0.0114
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00020 DLA	<0.00050 DLA	0.00021	<0.00020 DLA
	Arsenic (As)-Dissolved (mg/L)	0.00543	<0.00020 DLA	<0.00050 DLA	0.00030	0.00028
	Barium (Ba)-Dissolved (mg/L)	0.0244	0.00904	0.0147	0.0472	0.0190
	Beryllium (Be)-Dissolved (mg/L)	0.00059	<0.00020 DLA	<0.00050 DLA	<0.00010	<0.00020 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.00010 DLA	<0.00025 DLA	<0.000050	<0.00010 DLA
	Boron (B)-Dissolved (mg/L)	<0.010	<0.020 DLA	<0.050 DLA	<0.010	<0.020 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.0000177	0.000035	0.00143	0.000133	0.000972
	Calcium (Ca)-Dissolved (mg/L)	179	459	224	105	247
	Cesium (Cs)-Dissolved (mg/L)	0.000095	0.000037	0.000169	<0.000010	<0.000020 DLA
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	0.00053	<0.00050 DLA	0.00017	<0.00020 DLA
	Cobalt (Co)-Dissolved (mg/L)	0.00615	<0.00020 DLA	0.0286	0.00010	0.0312
	Copper (Cu)-Dissolved (mg/L)	<0.00020	0.00144	<0.0010 DLA	0.00311	0.00074
	Iron (Fe)-Dissolved (mg/L)	20.0	<0.020 DLA	19.6	0.021	22.2
	Lead (Pb)-Dissolved (mg/L)	0.000097	<0.00010 DLA	<0.00025 DLA	0.000078	0.00941
	Lithium (Li)-Dissolved (mg/L)	0.0524	0.0202	0.0463	0.0125	0.0577
	Magnesium (Mg)-Dissolved (mg/L)	70.1	206	117	31.8	118
	Manganese (Mn)-Dissolved (mg/L)	1.41	0.00092	6.81	0.0831	5.92
	Molybdenum (Mo)-Dissolved (mg/L)	0.000193	0.00094	<0.00025 DLA	0.000277	0.00015
	Nickel (Ni)-Dissolved (mg/L)	0.0145	<0.0010 DLA	0.0805	0.00333	0.0596
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.10 DLA	<0.25 DLA	<0.050	<0.10 DLA
	Potassium (K)-Dissolved (mg/L)	5.32	4.39	5.48	2.77	5.53
	Rubidium (Rb)-Dissolved (mg/L)	0.00631	<0.00040 DLA	0.0014	0.00130	0.00388
	Selenium (Se)-Dissolved (mg/L)	<0.000050	0.00046	<0.00025 DLA	0.000231	<0.00010 DLA
	Silicon (Si)-Dissolved (mg/L)	14.1	6.11	14.4	5.89	14.3
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000020 DLA	<0.000050 DLA	<0.000010	<0.000020 DLA
	Sodium (Na)-Dissolved (mg/L)	10.7	11.1	13.0	27.8	12.7
	Strontium (Sr)-Dissolved (mg/L)	0.664	0.476	0.817	0.331	0.898

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1778753-46 Water 01-JUN-16 13:32 S2B	L1778753-47 Water 01-JUN-16 10:37 SRK05-SP4A	L1778753-48 Water 01-JUN-16 10:37 DUP1	L1778753-49 Water 01-JUN-16 10:37 FB1	L1778753-50 Water 01-JUN-16 10:56 SRK05-SP-4B
WATER						
Physical Tests	Conductivity (uS/cm)	5410	1140	1130	<2.0	7010
	Hardness (as CaCO3) (mg/L)	2950	646	617	<0.50	7350
	pH (pH)	6.74	6.77	6.61	5.32	6.41
	Total Suspended Solids (mg/L)	80.0	13.0	13.4	<1.0	26.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	533	243	171	1.2	961
	Alkalinity, Total (as CaCO3) (mg/L)	190	280	272	<1.0	66.7
	Chloride (Cl) (mg/L)	<10 DLDS	1.4	1.4	<0.50	16
	Sulfate (SO4) (mg/L)	5570	439	442	<0.30	8450
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.010 DLA	0.0223	0.0215	<0.0010	<0.10 DLA
	Antimony (Sb)-Dissolved (mg/L)	<0.0010 DLA	0.00011	0.00013	<0.00010	<0.010 DLA
	Arsenic (As)-Dissolved (mg/L)	<0.0010 DLA	0.00015	0.00014	<0.00010	<0.010 DLA
	Barium (Ba)-Dissolved (mg/L)	0.0130	0.0105	0.0107	<0.000050	0.0155
	Beryllium (Be)-Dissolved (mg/L)	<0.0010 DLA	0.00077	0.00076	<0.00010	<0.010 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050 DLA	<0.000050	<0.000050	<0.000050	<0.0050 DLA
	Boron (B)-Dissolved (mg/L)	<0.10 DLA	<0.010	<0.010	<0.010	<1.0 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.0106	0.00108	0.00113	<0.0000050	0.135
	Calcium (Ca)-Dissolved (mg/L)	492	133	139	<0.050	422
	Cesium (Cs)-Dissolved (mg/L)	<0.00010 DLA	0.000388	0.000391	<0.000010	<0.0010 DLA
	Chromium (Cr)-Dissolved (mg/L)	<0.0010 DLA	<0.00010	<0.00010	<0.00010	<0.010 DLA
	Cobalt (Co)-Dissolved (mg/L)	0.220	0.0258	0.0256	<0.00010	0.076
	Copper (Cu)-Dissolved (mg/L)	<0.0020 DLA	0.00022	0.00022	<0.00020	<0.020 DLA
	Iron (Fe)-Dissolved (mg/L)	59.0	19.1	19.3	<0.010	38.2
	Lead (Pb)-Dissolved (mg/L)	<0.00050 DLA	<0.000050	0.000273	<0.000050	<0.0050 DLA
	Lithium (Li)-Dissolved (mg/L)	0.052	0.0660	0.0637	<0.0010	0.19
	Magnesium (Mg)-Dissolved (mg/L)	417	76.6	65.8	<0.0050	1530
	Manganese (Mn)-Dissolved (mg/L)	32.7	2.85	2.79	<0.00010	95.1
	Molybdenum (Mo)-Dissolved (mg/L)	<0.00050 DLA	0.000055	0.000079	<0.000050	<0.0050 DLA
	Nickel (Ni)-Dissolved (mg/L)	0.305	0.0669	0.0662	<0.00050	3.48
	Phosphorus (P)-Dissolved (mg/L)	<0.50 DLA	<0.050	<0.050	<0.050	<5.0 DLA
	Potassium (K)-Dissolved (mg/L)	7.82	5.31	5.14	<0.050	17.9
	Rubidium (Rb)-Dissolved (mg/L)	0.0036	0.0102	0.00987	<0.00020	<0.020 DLA
	Selenium (Se)-Dissolved (mg/L)	<0.00050 DLA	<0.000050	<0.000050	<0.000050	<0.0050 DLA
	Silicon (Si)-Dissolved (mg/L)	10.1	15.0	14.4	<0.050	14.0
	Silver (Ag)-Dissolved (mg/L)	<0.00010 DLA	<0.000010	<0.000010	<0.000010	<0.0010 DLA
	Sodium (Na)-Dissolved (mg/L)	30.2	10.6	10.4	<0.050	44.2
	Strontium (Sr)-Dissolved (mg/L)	1.82	0.579	0.619	<0.00020	2.34

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1778753-51	L1778753-52	L1778753-53	L1778753-54	L1778753-55
	Description	Water	Water	Water	Water	Water
	Sampled Date	01-JUN-16	01-JUN-16	01-JUN-16	01-JUN-16	01-JUN-16
	Sampled Time	14:10	11:45	14:53	15:00	14:15
	Client ID	SRK05-SP-5	SRK08-SBR2	SRK08-SBR4	SRK08-SP-7A	SRK08-SP-7B
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	7660	1960	6560	1110	220
	Hardness (as CaCO3) (mg/L)	8490	1260	7510	619	99.8
	pH (pH)	6.90	7.36	7.11	7.72	7.96
	Total Suspended Solids (mg/L)	16.0	25.2	4.8	116	10.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1070	201	667	67.1	12.9
	Alkalinity, Total (as CaCO3) (mg/L)	143	217	108	125	81.8
	Chloride (Cl) (mg/L)	<10 DLDS	<2.5 DLDS	<10 DLDS	<1.0 DLDS	<0.50
	Sulfate (SO4) (mg/L)	10200	1220	8070	572	38.2
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.15	0.0389	<0.050 DLA	0.0072	0.0265
	Antimony (Sb)-Dissolved (mg/L)	<0.010 DLA	<0.00050 DLA	<0.0050 DLA	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.010 DLA	<0.00050 DLA	<0.0050 DLA	0.00500	0.00346
	Barium (Ba)-Dissolved (mg/L)	0.0216	0.0141	0.0156	0.0156	0.0547
	Beryllium (Be)-Dissolved (mg/L)	<0.010 DLA	<0.00050 DLA	<0.0050 DLA	0.00034	0.00011
	Bismuth (Bi)-Dissolved (mg/L)	<0.0050 DLA	<0.00025 DLA	<0.0025 DLA	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<1.0 DLA	<0.050 DLA	<0.50 DLA	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.441	0.00696	0.166	0.0000353	0.0000090
	Calcium (Ca)-Dissolved (mg/L)	462	186	448	153	11.6
	Cesium (Cs)-Dissolved (mg/L)	<0.0010 DLA	0.000187	0.00278	0.000255	<0.000010
	Chromium (Cr)-Dissolved (mg/L)	<0.010 DLA	<0.00050 DLA	<0.0050 DLA	<0.00010	0.00035
	Cobalt (Co)-Dissolved (mg/L)	2.37	0.0489	1.40	0.00790	0.00089
	Copper (Cu)-Dissolved (mg/L)	<0.020 DLA	0.0039	0.012	<0.00020	0.00069
	Iron (Fe)-Dissolved (mg/L)	1.9	0.391	2.68	19.7	2.79
	Lead (Pb)-Dissolved (mg/L)	<0.0050 DLA	0.00028	<0.0025 DLA	0.000058	0.000096
	Lithium (Li)-Dissolved (mg/L)	0.24	0.0940	0.253	0.0478	0.0171
	Magnesium (Mg)-Dissolved (mg/L)	1780	194	1550	57.4	17.2
	Manganese (Mn)-Dissolved (mg/L)	167	10.5	106	1.71	1.24
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050 DLA	0.00030	<0.0025 DLA	0.000123	0.000323
	Nickel (Ni)-Dissolved (mg/L)	3.66	0.164	2.61	0.0196	0.00738
	Phosphorus (P)-Dissolved (mg/L)	<5.0 DLA	<0.25 DLA	<2.5 DLA	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	21.0	6.46	19.0	5.03	1.85
	Rubidium (Rb)-Dissolved (mg/L)	<0.020 DLA	0.0085	0.026	0.00908	0.00092
	Selenium (Se)-Dissolved (mg/L)	<0.0050 DLA	<0.00025 DLA	<0.0025 DLA	<0.000050	0.000102
	Silicon (Si)-Dissolved (mg/L)	14.4	13.8	12.8	13.3	8.13
	Silver (Ag)-Dissolved (mg/L)	<0.0010 DLA	<0.000050 DLA	<0.00050 DLA	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	66.4	14.5	73.2	9.71	2.53
	Strontium (Sr)-Dissolved (mg/L)	2.20	0.770	2.17	0.616	0.0919

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1778753-56	L1778753-57	L1778753-58	L1778753-59	L1778753-60
	Description	Water	Water	Water	Water	Water
	Sampled Date	03-JUN-16	03-JUN-16	03-JUN-16	03-JUN-16	
	Sampled Time	10:05	13:25	11:20	12:40	
	Client ID	P2001-02A	P2001-02B	P96-9A	SRK05-9	TRAVEL BLANK
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	3050	3160	2440	1810	<2.0
	Hardness (as CaCO3) (mg/L)	2510	3100	2110	1260	<0.50
	pH (pH)	7.43	7.25	7.88	8.21	5.34
	Total Suspended Solids (mg/L)	41.6	95.4	4.2	2.2	<1.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	97.0	135	26.2	19.2	1.6
	Alkalinity, Total (as CaCO3) (mg/L)	851	867	480	378	<1.0
	Chloride (Cl) (mg/L)	<5.0 DLDS	<5.0 DLDS	<2.5 DLDS	<2.5 DLDS	<0.50
	Sulfate (SO4) (mg/L)	1870	2000	1490	962	<0.30
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0020 DLA	<0.0050 DLA	0.0166	0.0012	<0.0010
	Antimony (Sb)-Dissolved (mg/L)	<0.00020 DLA	<0.00050 DLA	<0.00020 DLA	0.00027	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00921	0.00241	0.00038	0.00065	<0.00010
	Barium (Ba)-Dissolved (mg/L)	0.0122	0.0257	0.0396	0.0333	<0.000050
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 DLA	<0.00050 DLA	<0.00020 DLA	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00010 DLA	<0.00025 DLA	<0.00010 DLA	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.020 DLA	<0.050 DLA	<0.020 DLA	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000012	<0.000025 DLA	0.000611	0.000223	<0.0000050
	Calcium (Ca)-Dissolved (mg/L)	549	640	324	233	<0.050
	Cesium (Cs)-Dissolved (mg/L)	<0.000020 DLA	<0.000050 DLA	<0.000020 DLA	<0.000010	<0.000010
	Chromium (Cr)-Dissolved (mg/L)	<0.00020 DLA	<0.00050 DLA	0.00026	0.00035	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00079	<0.00050 DLA	<0.00020 DLA	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	<0.00040 DLA	<0.0010 DLA	0.00221	0.00121	<0.00020
	Iron (Fe)-Dissolved (mg/L)	6.81	3.72	<0.020 DLA	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)	0.00015	<0.00025 DLA	<0.00010 DLA	0.000571	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0443	0.0445	0.0099	0.0080	<0.0010
	Magnesium (Mg)-Dissolved (mg/L)	277	365	317	164	<0.0050
	Manganese (Mn)-Dissolved (mg/L)	0.251	0.136	0.0237	0.00240	<0.00010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00047	0.00032	0.00057	0.00136	<0.000050
	Nickel (Ni)-Dissolved (mg/L)	0.0064	0.0062	0.0161	0.00159	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.10 DLA	<0.25 DLA	<0.10 DLA	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	5.61	5.98	4.67	3.33	<0.050
	Rubidium (Rb)-Dissolved (mg/L)	0.00144	0.0017	<0.00040 DLA	0.00043	<0.00020
	Selenium (Se)-Dissolved (mg/L)	<0.00010 DLA	<0.00025 DLA	0.00021	0.000868	<0.000050
	Silicon (Si)-Dissolved (mg/L)	8.28	8.62	5.58	4.65	<0.050
	Silver (Ag)-Dissolved (mg/L)	<0.000020 DLA	<0.000050 DLA	<0.000020 DLA	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	12.4	10.0	11.4	10.1	<0.050
	Strontium (Sr)-Dissolved (mg/L)	2.79	3.00	1.10	0.745	<0.00020

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1778753-1 Water 02-JUN-16 10:20 P01-02A	L1778753-2 Water 02-JUN-16 13:32 P01-02B	L1778753-3 Water 02-JUN-16 13:05 P01-11	L1778753-4 Water 02-JUN-16 14:30 P05-01-02	L1778753-5 Water 02-JUN-16 13:55 P05-01-04
WATER						
Dissolved Metals	Sulfur (S)-Dissolved (mg/L)	44.2	25.5	829 DLA	747 DLA	766 DLA
	Tellurium (Te)-Dissolved (mg/L)	<0.00020	<0.00020	<0.0020 DLA	<0.0020 DLA	<0.0020 DLA
	Thallium (Tl)-Dissolved (mg/L)	0.000012	<0.000010	<0.00010 DLA	<0.00010 DLA	<0.00010 DLA
	Thorium (Th)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0010 DLA	<0.0010 DLA	<0.0010 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0010 DLA	<0.0010 DLA	<0.0010 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.00030	<0.00030	<0.0030 DLA	<0.0030 DLA	<0.0030 DLA
	Tungsten (W)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0010 DLA	<0.0010 DLA	<0.0010 DLA
	Uranium (U)-Dissolved (mg/L)	0.00228	0.00352	0.00879	0.00048	0.00231
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0050 DLA	<0.0050 DLA	<0.0050 DLA
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	<0.0010	0.015	<0.010 DLA	<0.010 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00030	<0.0030 DLA	<0.0030 DLA	<0.0030 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1778753-6	L1778753-7	L1778753-8	L1778753-9	L1778753-10
Description	Water	Water	Water	Water	Water
Sampled Date	02-JUN-16	02-JUN-16	02-JUN-16	02-JUN-16	02-JUN-16
Sampled Time	12:05	11:15	10:20	15:48	16:15
Client ID	P05-02	P05-03	DUP3	P01-01A	P01-01B
Grouping / **Analyte**					
WATER					
Dissolved Metals Sulfur (S)-Dissolved (mg/L)	723	351	45.0	317	230
Tellurium (Te)-Dissolved (mg/L)	<0.0020 DLA	<0.0010 DLA	<0.00020	<0.00040 DLA	<0.00020
Thallium (Tl)-Dissolved (mg/L)	<0.00010 DLA	<0.000050 DLA	0.000011	<0.000020 DLA	<0.000010
Thorium (Th)-Dissolved (mg/L)	<0.0010 DLA	<0.00050 DLA	<0.00010	<0.00020 DLA	<0.00010
Tin (Sn)-Dissolved (mg/L)	<0.0010 DLA	<0.00050 DLA	<0.00010	<0.00020 DLA	<0.00010
Titanium (Ti)-Dissolved (mg/L)	<0.0030 DLA	<0.0015 DLA	<0.00030	<0.00060 DLA	<0.00030
Tungsten (W)-Dissolved (mg/L)	<0.0010 DLA	<0.00050 DLA	<0.00010	<0.00020 DLA	<0.00010
Uranium (U)-Dissolved (mg/L)	0.00535	0.0118	0.00228	0.00773	0.0107
Vanadium (V)-Dissolved (mg/L)	<0.0050 DLA	<0.0025 DLA	<0.00050	<0.0010 DLA	<0.00050
Zinc (Zn)-Dissolved (mg/L)	0.069	0.0103	<0.0010	0.0040	0.0021
Zirconium (Zr)-Dissolved (mg/L)	<0.0030 DLA	<0.0015 DLA	<0.00030	<0.00060 DLA	0.00131

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1778753-11	L1778753-12	L1778753-13	L1778753-14	L1778753-15
Description	Water	Water	Water	Water	Water
Sampled Date	02-JUN-16	02-JUN-16	02-JUN-16	02-JUN-16	03-JUN-16
Sampled Time	16:15	16:15	14:20	14:55	16:30
Client ID	DUP4	FB2	X16A	X16B	X17A
Grouping / **Analyte**					
WATER					
Dissolved Metals Sulfur (S)-Dissolved (mg/L)	227	<0.50	8.94	9.21	22.3
Tellurium (Te)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Thorium (Th)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tungsten (W)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Dissolved (mg/L)	0.0107	<0.000010	0.00199	0.00215	0.00216
Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Zinc (Zn)-Dissolved (mg/L)	<0.0010	<0.0010	0.0029	<0.0010	0.0018
Zirconium (Zr)-Dissolved (mg/L)	0.00130	<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

Grouping	Analyte	L1778753-16 Water 03-JUN-16 17:00 X17B	L1778753-17 Water 02-JUN-16 15:40 X18A	L1778753-18 Water 02-JUN-16 16:20 X18B	L1778753-19 Water 03-JUN-16 15:15 P09-ETA-2	L1778753-20 Water 03-JUN-16 13:46 P96-8A
WATER						
Dissolved Metals	Sulfur (S)-Dissolved (mg/L)	138	247	275	1700	2870
	Tellurium (Te)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00040 DLA	<0.010 DLA	<0.040 DLA
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000020 DLA	<0.00050 DLA	<0.0020 DLA
	Thorium (Th)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.0050 DLA	<0.020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.0050 DLA	<0.020 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00060 DLA	<0.015 DLA	<0.060 DLA
	Tungsten (W)-Dissolved (mg/L)	0.00011	<0.00010	<0.00020 DLA	<0.0050 DLA	<0.020 DLA
	Uranium (U)-Dissolved (mg/L)	0.00304	0.0113	0.0148	0.00439	0.0293
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0010 DLA	<0.025 DLA	<0.10 DLA
	Zinc (Zn)-Dissolved (mg/L)	0.0064	<0.0010	0.0023	214	881
	Zirconium (Zr)-Dissolved (mg/L)	0.00507	<0.00030	<0.00060 DLA	<0.015 DLA	<0.060 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1778753-21	L1778753-22	L1778753-23	L1778753-24	L1778753-25
Description	Water	Water	Water	Water	Water
Sampled Date	03-JUN-16	02-JUN-16	02-JUN-16	02-JUN-16	02-JUN-16
Sampled Time	14:10	10:06	11:55	12:16	09:25
Client ID	P96-8B	P01-03	P01-04A	P01-04B	X24-96D
Grouping / **Analyte**					
WATER					
Dissolved Metals Sulfur (S)-Dissolved (mg/L)	2900	885	16.9	606	618
Tellurium (Te)-Dissolved (mg/L)	<0.040 DLA	<0.0020 DLA	<0.00020	<0.0010 DLA	<0.0020 DLA
Thallium (Tl)-Dissolved (mg/L)	<0.0020 DLA	<0.00010 DLA	<0.000010	<0.000050 DLA	0.00036
Thorium (Th)-Dissolved (mg/L)	<0.020 DLA	<0.0010 DLA	<0.00010	<0.00050 DLA	<0.0010 DLA
Tin (Sn)-Dissolved (mg/L)	<0.020 DLA	<0.0010 DLA	<0.00010	<0.00050 DLA	<0.0010 DLA
Titanium (Ti)-Dissolved (mg/L)	<0.060 DLA	<0.0030 DLA	<0.00030	<0.0015 DLA	<0.0030 DLA
Tungsten (W)-Dissolved (mg/L)	<0.020 DLA	<0.0010 DLA	0.00015	<0.00050 DLA	<0.0010 DLA
Uranium (U)-Dissolved (mg/L)	0.0032	0.00441	0.000292	0.00821	0.00240
Vanadium (V)-Dissolved (mg/L)	<0.10 DLA	<0.0050 DLA	0.00095	<0.0025 DLA	<0.0050 DLA
Zinc (Zn)-Dissolved (mg/L)	837	1.52	<0.0010	<0.0050 DLA	0.760
Zirconium (Zr)-Dissolved (mg/L)	<0.060 DLA	<0.0030 DLA	0.0790	<0.0015 DLA	<0.0030 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1778753-26 Water 02-JUN-16 10:43 X25-96A	L1778753-27 Water 02-JUN-16 11:12 X25-96B	L1778753-28 Water 03-JUN-16 12:10 BH14A	L1778753-29 Water 03-JUN-16 11:45 BH14B	L1778753-30 Water 03-JUN-16 11:10 CH15-107-MW029
WATER						
Dissolved Metals	Sulfur (S)-Dissolved (mg/L)	301	296	891	913	316
	Tellurium (Te)-Dissolved (mg/L)	DLA <0.0010	DLA <0.00040	DLA <0.0010	DLA <0.00040	<0.00020
	Thallium (Tl)-Dissolved (mg/L)	DLA <0.000050	DLA <0.000020	DLA <0.000050	DLA <0.000020	<0.000010
	Thorium (Th)-Dissolved (mg/L)	DLA <0.00050	DLA <0.00020	DLA <0.00050	DLA <0.00020	<0.00010
	Tin (Sn)-Dissolved (mg/L)	DLA <0.00050	DLA <0.00020	DLA <0.00050	DLA <0.00020	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	DLA <0.0015	DLA <0.00060	DLA <0.0015	DLA <0.00060	<0.00030
	Tungsten (W)-Dissolved (mg/L)	DLA <0.00050	DLA <0.00020	DLA <0.00050	0.00033	<0.00010
	Uranium (U)-Dissolved (mg/L)	0.0119	0.00749	0.130	0.187	0.0127
	Vanadium (V)-Dissolved (mg/L)	DLA <0.0025	DLA <0.0010	DLA <0.0025	DLA <0.0010	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	DLA <0.0050	DLA <0.0020	31.2	0.0790	0.190
	Zirconium (Zr)-Dissolved (mg/L)	DLA <0.0015	DLA <0.00060	DLA <0.0015	DLA <0.00060	0.00118

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1778753-31 Water 03-JUN-16 10:35 CH15-107-MW030	L1778753-32 Water 03-JUN-16 10:05 CH15-107-MW032	L1778753-33 Water 03-JUN-16 09:35 CH15-107-MW033	L1778753-34 Water 03-JUN-16 08:45 CH15-107-MW034	L1778753-35 Water 03-JUN-16 08:45 DUP5
WATER						
Dissolved Metals	Sulfur (S)-Dissolved (mg/L)	381	462	383	133	136
	Tellurium (Te)-Dissolved (mg/L)	<0.00020	<0.00040 DLA	<0.00020	<0.00020	<0.00020
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	0.000049	0.000034	0.000037	0.000036
	Thorium (Th)-Dissolved (mg/L)	<0.00010	<0.00020 DLA	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	0.00029	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	0.00208	<0.00060 DLA	<0.00030	<0.00030	<0.00030
	Tungsten (W)-Dissolved (mg/L)	<0.00010	<0.00020 DLA	<0.00010	<0.00010	<0.00010
	Uranium (U)-Dissolved (mg/L)	0.0105	0.0199	0.00872	0.00316	0.00310
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.0010 DLA	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	0.291	0.0124	1.71	0.0033	0.0031
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00060 DLA	<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	L1778753-36	L1778753-37	L1778753-38	L1778753-39	L1778753-40
	Description	Water	Water	Water	Water	Water
	Sampled Date	03-JUN-16	01-JUN-16	01-JUN-16	01-JUN-16	01-JUN-16
	Sampled Time	08:45	12:30	13:20	10:30	11:35
	Client ID	FB3	CH14-107-MW007A	CH14-107-MW007B	CH14-107-MW009	CH14-107-MW010
Grouping	**Analyte**					
WATER						
Dissolved Metals	Sulfur (S)-Dissolved (mg/L)	<0.50	1100 DLA	285	172	68.3
	Tellurium (Te)-Dissolved (mg/L)	<0.00020	<0.0040 DLA	<0.00020	<0.00020	<0.00020
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.00020 DLA	<0.000010	<0.000010	<0.000010
	Thorium (Th)-Dissolved (mg/L)	<0.00010	<0.0020 DLA	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.0020 DLA	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.00030	<0.0060 DLA	<0.00030	<0.00030	<0.00030
	Tungsten (W)-Dissolved (mg/L)	<0.00010	<0.0020 DLA	<0.00010	<0.00010	0.00063
	Uranium (U)-Dissolved (mg/L)	<0.000010	0.00132	0.000544	0.00264	0.000052
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.010 DLA	0.00055	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	104 DLA	2.64	0.678	1.04
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.0060 DLA	<0.00030	<0.00030	<0.00030

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1778753-41 Water 01-JUN-16 10:30 DUP2	L1778753-42 Water 01-JUN-16 16:00 P96-7	L1778753-43 Water 01-JUN-16 16:15 S1A	L1778753-44 Water 02-JUN-16 08:40 S1B	L1778753-45 Water 01-JUN-16 13:05 S2A
WATER						
Dissolved Metals	Sulfur (S)-Dissolved (mg/L)	167	625 DLA	312 DLA	46.9	320 DLA
	Tellurium (Te)-Dissolved (mg/L)	<0.00020	<0.00040	<0.0010	<0.00020	<0.00040
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000020 DLA	<0.000050 DLA	<0.000010	0.000029
	Thorium (Th)-Dissolved (mg/L)	<0.00010	<0.00020 DLA	<0.00050 DLA	<0.00010	<0.00020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00020 DLA	<0.00050 DLA	<0.00010	<0.00020 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.00030	<0.00060 DLA	<0.0015 DLA	<0.00030	<0.00060 DLA
	Tungsten (W)-Dissolved (mg/L)	<0.00010	<0.00020 DLA	<0.00050 DLA	0.00012	<0.00020 DLA
	Uranium (U)-Dissolved (mg/L)	0.00266	0.0171	0.00308	0.00355	0.00315
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.0010 DLA	<0.0025 DLA	<0.00050	<0.0010 DLA
	Zinc (Zn)-Dissolved (mg/L)	0.685	0.0091	17.2 DLA	0.0167	8.51 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00060 DLA	<0.0015	<0.00030	<0.00060

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1778753-46	L1778753-47	L1778753-48	L1778753-49	L1778753-50
Description	Water	Water	Water	Water	Water
Sampled Date	01-JUN-16	01-JUN-16	01-JUN-16	01-JUN-16	01-JUN-16
Sampled Time	13:32	10:37	10:37	10:37	10:56
Client ID	S2B	SRK05-SP4A	DUP1	FB1	SRK05-SP-4B
Grouping / **Analyte**					
WATER					
Dissolved Metals					
Sulfur (S)-Dissolved (mg/L)	1060	143	138	<0.50	3030
Tellurium (Te)-Dissolved (mg/L)	<0.0020 DLA	<0.00020	<0.00020	<0.00020	<0.020 DLA
Thallium (Tl)-Dissolved (mg/L)	<0.00010 DLA	<0.000010	0.000011	<0.000010	<0.0010 DLA
Thorium (Th)-Dissolved (mg/L)	<0.0010 DLA	<0.00010	<0.00010	<0.00010	<0.010 DLA
Tin (Sn)-Dissolved (mg/L)	<0.0010 DLA	<0.00010	<0.00010	<0.00010	<0.010 DLA
Titanium (Ti)-Dissolved (mg/L)	<0.0030 DLA	<0.00030	<0.00030	<0.00030	<0.030 DLA
Tungsten (W)-Dissolved (mg/L)	<0.0010 DLA	<0.00010	<0.00010	<0.00010	<0.010 DLA
Uranium (U)-Dissolved (mg/L)	0.00196	0.00149	0.00156	<0.000010	0.0015
Vanadium (V)-Dissolved (mg/L)	<0.0050 DLA	<0.00050	<0.00050	<0.00050	<0.050 DLA
Zinc (Zn)-Dissolved (mg/L)	57.4	7.50	7.43	<0.0010	567
Zirconium (Zr)-Dissolved (mg/L)	<0.0030 DLA	<0.00030	<0.00030	<0.00030	<0.030 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1778753-51 Water 01-JUN-16 14:10 SRK05-SP-5	L1778753-52 Water 01-JUN-16 11:45 SRK08-SBR2	L1778753-53 Water 01-JUN-16 14:53 SRK08-SBR4	L1778753-54 Water 01-JUN-16 15:00 SRK08-SP-7A	L1778753-55 Water 01-JUN-16 14:15 SRK08-SP-7B
WATER						
Dissolved Metals	Sulfur (S)-Dissolved (mg/L)	3530 DLA	407 DLA	2910 DLA	189	13.0
	Tellurium (Te)-Dissolved (mg/L)	<0.020 DLA	<0.0010 DLA	<0.010 DLA	<0.00020	<0.00020
	Thallium (Tl)-Dissolved (mg/L)	<0.0010 DLA	<0.000050 DLA	<0.00050 DLA	<0.000010	<0.000010
	Thorium (Th)-Dissolved (mg/L)	<0.010 DLA	<0.00050 DLA	<0.0050 DLA	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)	<0.010 DLA	<0.00050 DLA	<0.0050 DLA	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.030 DLA	<0.0015 DLA	<0.015 DLA	<0.00030	0.00030
	Tungsten (W)-Dissolved (mg/L)	<0.010 DLA	<0.00050 DLA	<0.0050 DLA	<0.00010	<0.00010
	Uranium (U)-Dissolved (mg/L)	0.0023	0.00102	0.00163	0.000563	0.000148
	Vanadium (V)-Dissolved (mg/L)	<0.050 DLA	<0.0025 DLA	<0.025 DLA	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	672 DLA	28.9 DLA	442 DLA	0.618	1.75
	Zirconium (Zr)-Dissolved (mg/L)	<0.030 DLA	<0.0015 DLA	<0.015 DLA	<0.00030	0.00034

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1778753-56 Water 03-JUN-16 10:05 P2001-02A	L1778753-57 Water 03-JUN-16 13:25 P2001-02B	L1778753-58 Water 03-JUN-16 11:20 P96-9A	L1778753-59 Water 03-JUN-16 12:40 SRK05-9	L1778753-60 Water TRAVEL BLANK
WATER						
Dissolved Metals	Sulfur (S)-Dissolved (mg/L)	618	731	543	336	<0.50
	Tellurium (Te)-Dissolved (mg/L)	<0.00040 DLA	<0.0010 DLA	<0.00040 DLA	<0.00020	<0.00020
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 DLA	<0.000050 DLA	<0.000020 DLA	<0.000010	<0.000010
	Thorium (Th)-Dissolved (mg/L)	<0.00020 DLA	<0.00050 DLA	<0.00020 DLA	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)	<0.00020 DLA	<0.00050 DLA	<0.00020 DLA	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.00060 DLA	<0.0015 DLA	<0.00060 DLA	<0.00030	<0.00030
	Tungsten (W)-Dissolved (mg/L)	<0.00020 DLA	<0.00050 DLA	<0.00020 DLA	<0.00010	<0.00010
	Uranium (U)-Dissolved (mg/L)	0.0802	0.0947	0.0370	0.0252	<0.000010
	Vanadium (V)-Dissolved (mg/L)	<0.0010 DLA	<0.0025 DLA	<0.0010 DLA	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	0.0137	<0.0050 DLA	0.153	0.331	<0.0010
	Zirconium (Zr)-Dissolved (mg/L)	0.00084	<0.0015 DLA	<0.00060 DLA	<0.00030	<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)
Method Blank	Alkalinity, Total (as CaCO3)	B	L1778753-60
Method Blank	Acidity (as CaCO3)	B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -48, -49, -5, -56, -57, -58, -6, -7, -8, -9
Method Blank	Acidity (as CaCO3)	B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -48, -49, -5, -56, -57, -58, -6, -7, -8, -9
Method Blank	Conductivity	B	L1778753-12
Method Blank	Alkalinity, Total (as CaCO3)	B	L1778753-44, -45, -46, -47, -48, -49, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59
Duplicate	Aluminum (Al)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Antimony (Sb)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Beryllium (Be)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Boron (B)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Cesium (Cs)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Copper (Cu)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Phosphorus (P)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Rubidium (Rb)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Selenium (Se)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Tellurium (Te)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Thallium (Tl)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Thorium (Th)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Titanium (Ti)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Tungsten (W)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Zinc (Zn)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Zirconium (Zr)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Beryllium (Be)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Cesium (Cs)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Iron (Fe)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Selenium (Se)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Tellurium (Te)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Thallium (Tl)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Thorium (Th)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Titanium (Ti)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Duplicate	Zirconium (Zr)-Dissolved	DLA	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1778753-34, -35, -36, -37, -38, -39, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -50, -51, -52, -53
Matrix Spike	Sulfate (SO4)	MS-B	L1778753-54, -55, -56, -57, -58, -59, -60
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Cobalt (Co)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Iron (Fe)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Nickel (Ni)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19,

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			-2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Zinc (Zn)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Iron (Fe)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Cadmium (Cd)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9
Matrix Spike	Zinc (Zn)-Dissolved	MS-B	L1778753-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. All associated sample results are at least 5 times greater than blank levels and are considered reliable.
DLA	Detection Limit adjusted for required dilution
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
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**
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

Samples of industrial wastes, acid mine drainage, or other solutions that contain appreciable amounts of hydrolyzable metal ions such as aluminum, iron, and manganese may require hot peroxide treatment to ensure oxidation and hydrolysis of reduced forms of polyvalent cations. Acidity results may be highly variable if this procedure is not followed. Results in this report for 'Acidity (as CaCO3)' have not been peroxide treated.

ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 Acidity

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

Samples of industrial wastes, acid mine drainage, or other solutions that contain appreciable amounts of hydrolyzable metal ions such as aluminum, iron, and manganese may require hot peroxide treatment to ensure oxidation and hydrolysis of reduced forms of polyvalent cations. Acidity results may be highly variable if this procedure is not followed. Results in this report for 'Acidity (as CaCO3)' have not been peroxide treated.

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.

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.

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.

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 CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

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.

PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"

Reference Information

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

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

TSS-LOW-WR Water Total Suspended Solids by Grav. (1 mg/L) 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
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

1-1343-005.30 2-1343-005.30 3-1343-005.30 4-1343-005.30 5-1343-005.30

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

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1778753-COFC

COC Number: 1 - 1343-005.30

Page 1 of 5

Report To		Report Format /	(Rush Turnaround Time (TAT) is not available for all tests)
Company:	Hemmera Environchem Inc.	Select Report Format: ☑PDF	R (Regular (Standard TAT if received by 3 pm - business days)
Contact:	Natasha Sandys	Quality Control (QC) Report with Report ☑ Yes ☐ No	P ☐Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐Criteria on Report - provide details below if box checked Select Distribution: ☑EMAIL ☐MAIL ☐FAX	E ☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT E2 ☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge
Phone:	867-456-4865	Email 1 or Fax nsandys@hemmera.com, jhains@hemmera.com, jc	Specify Date Required for E2,E or P:
		Email 2 chris@elr.ca	

Invoice To	Same as Report To ☑ Yes ☐ No	Invoice Distribution	Analysis Request
	Copy of Invoice with Report ☐ Yes ☑ No	Select Invoice Distribution: ☑EMAIL ☑MAIL ☐FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
Company:	Hemmera Environchem Inc.	Email 1 or Fax nsandys@hemmera.com	
Contact:	Natasha Sandys	Email 2 chris@elr.ca	

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:		Approver ID:	Cost Center:
Job #:	1343-005.30	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only)

ALS Contact: Sean Sluggett **Sampler:** JH,NB,AN,MM

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	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (excluding mercury)	F/P					Number of Containers
	P01-02A	02-Jun-16	10:20	Water	R	R	R	R	R	R	R	R						2
	P01-02B	02-Jun-16	13:32	Water	R	R	R	R	R	R	R	R						2
	P01-11	02-Jun-16	13:05	Water	R	R	R	R	R	R	R	R						2
	P05-01-02	02-Jun-16	14:30	Water	R	R	R	R	R	R	R	R						2
	P05-01-04	02-Jun-16	13:55	Water	R	R	R	R	R	R	R	R						2
	P05-02	02-Jun-16	12:05	Water	R	R	R	R	R	R	R	R						2
	P05-03	02-Jun-16	11:15	Water	R	R	R	R	R	R	R	R						2
	DUP3	02-Jun-16	10:20	Water	R	R	R	R	R	R	R	R						2
	P01-01A	02-Jun-16	15:48	Water	R	R	R	R	R	R	R	R						2
	P01-01B	02-Jun-16	16:15	Water	R	R	R	R	R	R	R	R						2
	DUP4	02-Jun-16	16:15	Water	R	R	R	R	R	R	R	R						2
	FB2	02-Jun-16	16:15	Water	R	R	R	R	R	R	R	R						2

Short Holding Time

Rush Processing

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No Are samples for human drinking water use? ☐ Yes ☑ No	- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☐	No ☐	
Ice packs	Yes ☑	No ☐	Custody seal intact	Yes ☐	No ☐
Cooling Initiated	☑				

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
2.1, 2.5	4.1, 1.5	1.9, 2.3		13/12/8	

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: Jun.6/16	Time: 10:00	Received by:	Date: 6 Jun 16.	Time: 10:00	Received by:	Date: June 7	Time: 2:20

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

ALS-FM-0325e v09 Front/04 January 2014

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**.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1778753-COFC

COC Number: 1 - 1343-005.30

Page 2 of 5

Report To		Report Format / Distribution		Turnaround Time (TAT) is not available for all tests
Company:	Hemmera Environchem Inc.	Select Report Format:	☑PDF ☑EXCEL ☑EDD (DIGITAL)	R ☑Regular (Standard TAT if received by 3 pm - business days)
Contact:	Natasha Sandys	Quality Control (QC) Report with Report	☑ Yes ☐ No	P ☐Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐Criteria on Report - provide details below if box checked		E ☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
		Select Distribution:	☑EMAIL ☐MAIL ☐FAX	E2 ☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge
Phone:	867-456-4865	Email 1 or Fax	nsandys@hemmera.com, jhains@hemmera.com, jc	Specify Date Required for E2,E or P:
		Email 2	chris@elr.ca	

Invoice To	Same as Report To ☑ Yes ☐ No	Invoice Distribution	
	Copy of Invoice with Report ☐ Yes ☑ No	Select Invoice Distribution:	☑EMAIL ☑MAIL ☐FAX
Company:	Hemmera Environchem Inc.	Email 1 or Fax	nsandys@hemmera.com
Contact:	Natasha Sandys	Email 2	chris@elr.ca

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:		Approver ID:	Cost Center:
Job #:	1343-005.30	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only)		ALS Contact:	Sean Sluggett	Sampler:	JH,NB,AN,MM

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

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	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (excluding mercury) F/P						Number of Containers
	X16A	02-Jun-16	14:20	Water	R	R	R	R	R	R	R	R						2
	X16B	02-Jun-16	14:55	Water	R	R	R	R	R	R	R	R						2
	X17A	03-Jun-16	16:30	Water	R	R	R	R	R	R	R	R						2
	X17B	03-Jun-16	17:00	Water	R	R	R	R	R	R	R	R						2
	X18A	02-Jun-16	15:40	Water	R	R	R	R	R	R	R	R						2
	X18B	02-Jun-16	16:20	Water	R	R	R	R	R	R	R	R						2
	P09-ETA-2	03-Jun-16	15:15	Water	R	R	R	R	R	R	R	R						2
	P96-8A	03-Jun-16	13:46	Water	R	R	R	R	R	R	R	R						2
	P96-8B	03-Jun-16	14:10	Water	R	R	R	R	R	R	R	R						2
	P01-03	02-Jun-16	10:06	Water	R	R	R	R	R	R	R	R						2
	P01-04A	02-Jun-16	11:55	Water	R	R	R	R	R	R	R	R						2
	P01-04B	02-Jun-16	12:16	Water	R	R	R	R	R	R	R	R						2

Short Holding Time

Rush Processing

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No Are samples for human drinking water use? ☐ Yes ☑ No	- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐	SIF Observations Yes ☐ No ☐
Ice packs Yes ☐ No ☐	Custody seal intact Yes ☐ No ☐
Cooling Initiated ☐	

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			12/13/8		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
	Jun.6/16	10:00					June 7	2:20

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

NA-FM-0326a v09 Front/04 January 2014

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**.

ALS Environmental

www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1778753-COFC

COC Number: 1 - 1343-005.30

Report To		Report Format / D.	(Rush Turnaround Time (TAT) is not available for all tests)
Company:	Hemmera Environchem Inc.	Select Report Format: ☑PDF ☑EXCEL ☑EDD (DIGITAL)	R ☑Regular (Standard TAT if received by 3 pm - business days)
Contact:	Natasha Sandys	Quality Control (QC) Report with Report ☑ Yes ☐ No	P ☐Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐Criteria on Report - provide details below if box checked Select Distribution: ☑EMAIL ☐MAIL ☐FAX	E ☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT E2 ☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge
Phone:	867-456-4865	Email 1 or Fax nsandys@hemmera.com, jhains@hemmera.com, jc	Specify Date Required for E2,E or P:
		Email 2 chris@elr.ca	**Analysis Request**

Invoice To	Same as Report To ☑ Yes ☐ No	Invoice Distribution	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
	Copy of Invoice with Report ☐ Yes ☑ No	Select Invoice Distribution: ☑EMAIL ☑MAIL ☐FAX	F/P
Company:	Hemmera Environchem Inc.	Email 1 or Fax nsandys@hemmera.com	
Contact:	Natasha Sandys	Email 2 chris@elr.ca	

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:		Approver ID:	Cost Center:
Job #:	1343-005.30	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only)

ALS Contact: Sean Sluggett **Sampler:** JH,NB,AN,MM

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	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (excluding mercury)						Number of Containers
	X24-96D	02-Jun-16	9:25	Water	R	R	R	R	R	R	R	R						2
	X25-96A	02-Jun-16	10:43	Water	R	R	R	R	R	R	R	R						2
	X25-96B	02-Jun-16	11:12	Water	R	R	R	R	R	R	R	R						2
	BH14A	03-Jun-16	12:10	Water	R	R	R	R	R	R	R	R						2
	BH14B	03-Jun-16	11:45	Water	R	R	R	R	R	R	R	R						2
	CH15-107-MW029	03-Jun-16	11:10	Water	R	R	R	R	R	R	R	R						2
	CH15-107-MW030	03-Jun-16	10:35	Water	R	R	R	R	R	R	R	R						2
	CH15-107-MW032	03-Jun-16	10:05	Water	R	R	R	R	R	R	R	R						2
	CH15-107-MW033	03-Jun-16	9:35	Water	R	R	R	R	R	R	R	R						2
	CH15-107-MW034	03-Jun-16	8:45	Water	R	R	R	R	R	R	R	R						2
	DUP5	03-Jun-16	8:45	Water	R	R	R	R	R	R	R	R						2
	FB3	03-Jun-16	8:45	Water	R	R	R	R	R	R	R	R						2

Short Holding Time

Rush Processing

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No Are samples for human drinking water use? ☐ Yes ☑ No	- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐

Ice packs Yes ☐ No ☐ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			12/13		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: Jun.6/16	Time: 10:00	Received by:	Date:	Time:	Received by:	Date: June 7	Time: 2:20

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**.

ALS Environmental

www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1778753-COFC

COC Number: 1 - 1343-005.30

Page 4 of 5

Report To		Report Format /		Rush Turnaround Time (TAT) is not available for all tests
Company:	Hemmera Environchem Inc.	Select Report Format:	☑PDF ☑EXCEL ☑EDD (DIGITAL)	R ☑Regular (Standard TAT if received by 3 pm - business days)
Contact:	Natasha Sandys	Quality Control (QC) Report with Report	☑ Yes ☐ No	P ☐Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐Criteria on Report - provide details below if box checked Select Distribution:	☑EMAIL ☐MAIL ☐FAX	E ☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT E2 ☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge
Phone:	867-456-4865	Email 1 or Fax	nsandys@hemmera.com, jhains@hemmera.com, jc	Specify Date Required for E2,E or P:
		Email 2	chris@elr.ca	

Invoice To	Same as Report To ☑ Yes ☐ No	Invoice Distribution	
	Copy of Invoice with Report ☐ Yes ☑ No	Select Invoice Distribution:	☑EMAIL ☑MAIL ☐FAX
Company:	Hemmera Environchem Inc.	Email 1 or Fax	nsandys@hemmera.com
Contact:	Natasha Sandys	Email 2	chris@elr.ca

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:		Approver ID:	Cost Center:
Job #:	1343-005.30	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only)

ALS Contact: Sean Sluggett **Sampler:** JH,NB,AN,MM

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

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	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (excluding mercury) F/P	Number of Containers
	CH14-107-MW007A	01-Jun-16	12:30	Water	R	R	R	R	R	R	R	R	2
	CH14-107-MW007B	01-Jun-16	13:20	Water	R	R	R	R	R	R	R	R	2
	CH14-107-MW009	01-Jun-16	10:30	Water	R	R	R	R	R	R	R	R	2
	CH14-107-MW010	01-Jun-16	11:35	Water	R	R	R	R	R	R	R	R	2
	DUP2	01-Jun-16	10:30	Water	R	R	R	R	R	R	R	R	2
	P96-7	01-Jun-16	16:00	Water	R	R	R	R	R	R	R	R	2
	S1A	01-Jun-16	16:15	Water	R	R	R	R	R	R	R	R	2
	S1B	02-Jun-16	8:40	Water	R	R	R	R	R	R	R	R	2
	S2A	01-Jun-16	13:05	Water	R	R	R	R	R	R	R	R	2
	S2B	01-Jun-16	13:32	Water	R	R	R	R	R	R	R	R	2
	SRK05-SP4A	01-Jun-16	10:27	Water	R	R	R	R	R	R	R	R	2
	DUP1	01-Jun-16	10:27	Water	R	R	R	R	R	R	R	R	2

Short Holding Time

Rush Processing

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No Are samples for human drinking water use? ☐ Yes ☑ No	- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐

Ice packs Yes ☐ No ☐ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			12/13/18		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: AW.	Date: Jun 6/16	Time: 10:00	Received by:	Date:	Time:	Received by:	Date: June 7	Time: 7:20

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

NA-FM-0326e v08 Front/04 January 2014

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**

Chain of Custody (COC) / Analytical Request Form

ALS Environmental

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1778753-COFC

COC Number: 1 - 1343-005.30

Page 5 of 5

Report To		Report Format	
Company:	Hemmera Environchem Inc.	Select Report Format:	☑ PDF
Contact:	Natasha Sandys	Quality Control (QC) Report with Report	☑ Yes ☐ No
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐ Criteria on Report - provide details below if box checked	
Phone:	867-456-4865	Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
		Email 1 or Fax	nsandys@hemmera.com, jhains@hemmera.com, jc
		Email 2	chris@elr.ca

(Rush Turnaround Time (TAT) is not available for all tests)

(received by 3 pm - business days)

P ☐ Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT

E ☐ Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT

E2 ☐ 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 ☑ Yes ☐ No	Invoice Distribution	
	Copy of Invoice with Report ☐ Yes ☑ No	Select Invoice Distribution:	☑ EMAIL ☑ MAIL ☐ FAX
Company:	Hemmera Environchem Inc.	Email 1 or Fax	nsandys@hemmera.com
Contact:	Natasha Sandys	Email 2	chris@elr.ca

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:		Approver ID:	Cost Center:
Job #:	1343-005.30	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only)

ALS Contact: Sean Sluggett **Sampler:** JH,NB,AN,MM

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

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	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (excluding mercury) F/P	Number of Containers
	FB1	01-Jun-16	10:27	Water	R	R	R	R	R	R	R	R	2
	SRK05-SP-4B	01-Jun-16	10:56	Water	R	R	R	R	R	R	R	R	2
	SRK05-SP-5	01-Jun-16	14:10	Water	R	R	R	R	R	R	R	R	2
	SRK08-SBR2	01-Jun-16	11:45	Water	R	R	R	R	R	R	R	R	2
	SRK08-SBR4	01-Jun-16	14:53	Water	R	R	R	R	R	R	R	R	2
	SRK08-SP-7A	01-Jun-16	15:00	Water	R	R	R	R	R	R	R	R	2
	SRK08-SP-7B	01-Jun-16	14:15	Water	R	R	R	R	R	R	R	R	2
	P2001-02A	03-Jun-16	10:05	Water	R	R	R	R	R	R	R	R	2
	P2001-02B	03-Jun-16	13:25	Water	R	R	R	R	R	R	R	R	2
	P98-9A	03-Jun-16	11:20	Water	R	R	R	R	R	R	R	R	2
	SRK05-9	03-Jun-16	12:40	Water	R	R	R	R	R	R	R	R	2
	TRAVEL BLANK	-	-	Water	R	R	R	R	R	R	R	R	3

Short Holding Time

Rush Processing

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ Yes ☑ No

Are samples for human drinking water use? ☐ Yes ☑ No

Special Instructions / Specify Criteria to add on report (client Use)

- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required.
- See attached parameter sheet for required detection limits.

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐

Ice packs Yes ☐ No ☐ Custody seal Intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			12/13/8		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date: Jun.6/16	Time: 10:00	Received by:	Date:	Time:	Received by: Shelby	Date: June 7	Time: 2:20

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

NA-FM-0205e v06 Front/04 January 2014

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**.