HEMMERA ENVIROCHEM INC.
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Date Received: 17-SEP-15
Report Date: 02-NOV-15 15:18 (MT)
Version: FINAL REV. 2

Client Phone: 867-456-4865

Certificate of Analysis

Lab Work Order #: L1674773

Project P.O. #: NOT SUBMITTED
Job Reference: 1343-005.12
C of C Numbers: 1-1343-005.12(2)
Legal Site Desc:

Comments:

2-NOV-2015 This report replaces the previous version and contains the addition of Hardness calculation to all samples.

Brent Mack, B.Sc.
Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1674773-1	L1674773-2	L1674773-3	L1674773-4	L1674773-5
Description	Water	Water	Water	Water	Water
Sampled Date	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15
Sampled Time	17:00	16:20	15:42	15:15	14:27
Client ID	SRK05-5C	SRK05-9	P96-9A	BH05-9B-R(P96-9BR)	SRK05-8
Grouping / **Analyte**					
WATER					
Physical Tests					
Conductivity (uS/cm)	758	1560	2200	564	2250
Hardness (as CaCO3) (mg/L)	428	1310	2250	210	2020
pH (pH)	8.32	7.68	8.06	8.45	7.85
Total Suspended Solids (mg/L)	37.8	36.4	5.2	91.7	3.0
Anions and Nutrients					
Acidity (as CaCO3) (mg/L)	<1.0	1.5	16.8	<1.0	31.8
Alkalinity, Total (as CaCO3) (mg/L)	191	350	539 DLA	147	590 DLA
Chloride (Cl) (mg/L)	<0.50	<0.50	<5.0	1.05	<5.0
Sulfate (SO4) (mg/L)	284	928	1710	167	1370
Total Metals					
Aluminum (Al)-Total (mg/L)					
Antimony (Sb)-Total (mg/L)					
Arsenic (As)-Total (mg/L)					
Barium (Ba)-Total (mg/L)					
Beryllium (Be)-Total (mg/L)					
Bismuth (Bi)-Total (mg/L)					
Boron (B)-Total (mg/L)					
Cadmium (Cd)-Total (mg/L)					
Calcium (Ca)-Total (mg/L)					
Cesium (Cs)-Total (mg/L)					
Chromium (Cr)-Total (mg/L)					
Cobalt (Co)-Total (mg/L)					
Copper (Cu)-Total (mg/L)					
Iron (Fe)-Total (mg/L)					
Lead (Pb)-Total (mg/L)					
Lithium (Li)-Total (mg/L)					
Magnesium (Mg)-Total (mg/L)					
Manganese (Mn)-Total (mg/L)					
Molybdenum (Mo)-Total (mg/L)					
Nickel (Ni)-Total (mg/L)					
Phosphorus (P)-Total (mg/L)					
Potassium (K)-Total (mg/L)					
Rubidium (Rb)-Total (mg/L)					
Selenium (Se)-Total (mg/L)					
Silicon (Si)-Total (mg/L)					
Silver (Ag)-Total (mg/L)					
Sodium (Na)-Total (mg/L)					
Strontium (Sr)-Total (mg/L)					
Sulfur (S)-Total (mg/L)					

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1674773-6	L1674773-7	L1674773-8	L1674773-9	L1674773-10
Description	Water	Water	Water	Water	Water
Sampled Date	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15
Sampled Time	13:45	10:50	13:45	13:45	09:05
Client ID	SRK05-07	V36	MW15-1100	FIELD BLANK-600	V34
Grouping / **Analyte**					
WATER					
Physical Tests Conductivity (uS/cm)	2540	2350	2520	<2.0	1780
Hardness (as CaCO3) (mg/L)	2590	2320	2540	<0.50	1490
pH (pH)	7.86	7.78	7.53	5.57	7.41
Total Suspended Solids (mg/L)	3.2	6.0	5.2	<1.0	19.0
Anions and Nutrients Acidity (as CaCO3) (mg/L)	34.9	36.2	57.8	<1.0	76.0
Alkalinity, Total (as CaCO3) (mg/L)	687	628	681	<1.0	942
Chloride (Cl) (mg/L)	<5.0 DLA	<5.0 DLA	<5.0 DLA	<0.50	<2.5 DLA
Sulfate (SO4) (mg/L)	1810	1540	1610	<0.30	597
Total Metals Aluminum (Al)-Total (mg/L)					
Antimony (Sb)-Total (mg/L)					
Arsenic (As)-Total (mg/L)					
Barium (Ba)-Total (mg/L)					
Beryllium (Be)-Total (mg/L)					
Bismuth (Bi)-Total (mg/L)					
Boron (B)-Total (mg/L)					
Cadmium (Cd)-Total (mg/L)					
Calcium (Ca)-Total (mg/L)					
Cesium (Cs)-Total (mg/L)					
Chromium (Cr)-Total (mg/L)					
Cobalt (Co)-Total (mg/L)					
Copper (Cu)-Total (mg/L)					
Iron (Fe)-Total (mg/L)					
Lead (Pb)-Total (mg/L)					
Lithium (Li)-Total (mg/L)					
Magnesium (Mg)-Total (mg/L)					
Manganese (Mn)-Total (mg/L)					
Molybdenum (Mo)-Total (mg/L)					
Nickel (Ni)-Total (mg/L)					
Phosphorus (P)-Total (mg/L)					
Potassium (K)-Total (mg/L)					
Rubidium (Rb)-Total (mg/L)					
Selenium (Se)-Total (mg/L)					
Silicon (Si)-Total (mg/L)					
Silver (Ag)-Total (mg/L)					
Sodium (Na)-Total (mg/L)					
Strontium (Sr)-Total (mg/L)					
Sulfur (S)-Total (mg/L)					

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1674773-11	L1674773-12	L1674773-13	L1674773-14	L1674773-15
Description	Water	Water	Water	Water	Water
Sampled Date	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15
Sampled Time	09:40	17:52	15:56	16:33	11:23
Client ID	V35	SRK08-P14	P09-GSIB	P09-GSIA	P09-LCD1
Grouping / **Analyte**					
WATER					
Physical Tests Conductivity (uS/cm)	2380	1730	1410	1030	944
Hardness (as CaCO3) (mg/L)	2310	1440	970	667	568
pH (pH)	7.52	8.00	7.97	7.94	8.17
Total Suspended Solids (mg/L)	7.4	7.6	39.7	1.8	12.0
Anions and Nutrients Acidity (as CaCO3) (mg/L)	54.8	11.3	9.6	9.5	4.0
Alkalinity, Total (as CaCO3) (mg/L)	637	292	263	246	293
Chloride (Cl) (mg/L)	<5.0 DLA	<2.5 DLA	<1.0 DLA	<1.0 DLA	<1.0 DLA
Sulfate (SO4) (mg/L)	1390	1100	834	455	319
Total Metals Aluminum (Al)-Total (mg/L)					
Antimony (Sb)-Total (mg/L)					
Arsenic (As)-Total (mg/L)					
Barium (Ba)-Total (mg/L)					
Beryllium (Be)-Total (mg/L)					
Bismuth (Bi)-Total (mg/L)					
Boron (B)-Total (mg/L)					
Cadmium (Cd)-Total (mg/L)					
Calcium (Ca)-Total (mg/L)					
Cesium (Cs)-Total (mg/L)					
Chromium (Cr)-Total (mg/L)					
Cobalt (Co)-Total (mg/L)					
Copper (Cu)-Total (mg/L)					
Iron (Fe)-Total (mg/L)					
Lead (Pb)-Total (mg/L)					
Lithium (Li)-Total (mg/L)					
Magnesium (Mg)-Total (mg/L)					
Manganese (Mn)-Total (mg/L)					
Molybdenum (Mo)-Total (mg/L)					
Nickel (Ni)-Total (mg/L)					
Phosphorus (P)-Total (mg/L)					
Potassium (K)-Total (mg/L)					
Rubidium (Rb)-Total (mg/L)					
Selenium (Se)-Total (mg/L)					
Silicon (Si)-Total (mg/L)					
Silver (Ag)-Total (mg/L)					
Sodium (Na)-Total (mg/L)					
Strontium (Sr)-Total (mg/L)					
Sulfur (S)-Total (mg/L)					

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1674773-16 Water 15-SEP-15 10:35 P09-LCD4	L1674773-17 Water 15-SEP-15 09:50 P09-LCD6	L1674773-18 Water 15-SEP-15 09:50 MW15-1200	L1674773-19 Water 15-SEP-15 08:33 V37	L1674773-20 Water 16-SEP-15 09:30 P09-VC2
WATER						
Physical Tests	Conductivity (uS/cm)	760	926	952	1060	349
	Hardness (as CaCO3) (mg/L)	326	596	599	672	190
	pH (pH)	8.45	8.26	8.22	8.48	8.40
	Total Suspended Solids (mg/L)	21.0	18.0	21.2	193	38.2
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	<1.0	1.4	2.4	<1.0	<1.0
	Alkalinity, Total (as CaCO3) (mg/L)	357	274	270	481	170
	Chloride (Cl) (mg/L)	<0.50 DLA	<1.0 DLA	<1.0 DLA	<1.0 DLA	<0.50
	Sulfate (SO4) (mg/L)	113	350	353	272	38.4
Total Metals	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Bismuth (Bi)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Cesium (Cs)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Phosphorus (P)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Rubidium (Rb)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silicon (Si)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Strontium (Sr)-Total (mg/L)					
	Sulfur (S)-Total (mg/L)					

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1674773-21	L1674773-22	L1674773-23	L1674773-24	L1674773-25
Description	Water	Water	Water	Water	Water
Sampled Date	16-SEP-15	16-SEP-15	16-SEP-15	16-SEP-15	16-SEP-15
Sampled Time	09:30	10:20	11:42	11:26	13:15
Client ID	FIELD BLANK-700	P09-VC1	P2001-2A	P2001-2B	SRK08-P15
Grouping / **Analyte**					
WATER					
Physical Tests Conductivity (uS/cm)	<2.0	332	2520	2420	1880
Hardness (as CaCO3) (mg/L)	<0.50	143	2510	2560	1320
pH (pH)	5.38	8.39	7.42	7.07	7.78
Total Suspended Solids (mg/L)	<1.0	71.3	201	81.0	6.4
Anions and Nutrients Acidity (as CaCO3) (mg/L)	<1.0	<1.0	70.1	74.6	20.3
Alkalinity, Total (as CaCO3) (mg/L)	<1.0	129	826 DLA	785 DLA	371 DLA
Chloride (Cl) (mg/L)	<0.50	<0.50	<5.0	<5.0	<2.5
Sulfate (SO4) (mg/L)	<0.30	61.1	1800	1740	964
Total Metals Aluminum (Al)-Total (mg/L)					
Antimony (Sb)-Total (mg/L)					
Arsenic (As)-Total (mg/L)					
Barium (Ba)-Total (mg/L)					
Beryllium (Be)-Total (mg/L)					
Bismuth (Bi)-Total (mg/L)					
Boron (B)-Total (mg/L)					
Cadmium (Cd)-Total (mg/L)					
Calcium (Ca)-Total (mg/L)					
Cesium (Cs)-Total (mg/L)					
Chromium (Cr)-Total (mg/L)					
Cobalt (Co)-Total (mg/L)					
Copper (Cu)-Total (mg/L)					
Iron (Fe)-Total (mg/L)					
Lead (Pb)-Total (mg/L)					
Lithium (Li)-Total (mg/L)					
Magnesium (Mg)-Total (mg/L)					
Manganese (Mn)-Total (mg/L)					
Molybdenum (Mo)-Total (mg/L)					
Nickel (Ni)-Total (mg/L)					
Phosphorus (P)-Total (mg/L)					
Potassium (K)-Total (mg/L)					
Rubidium (Rb)-Total (mg/L)					
Selenium (Se)-Total (mg/L)					
Silicon (Si)-Total (mg/L)					
Silver (Ag)-Total (mg/L)					
Sodium (Na)-Total (mg/L)					
Strontium (Sr)-Total (mg/L)					
Sulfur (S)-Total (mg/L)					

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1674773-26	L1674773-27	L1674773-28	L1674773-29	L1674773-30
Description	Water	Water	Water	Water	Water
Sampled Date	16-SEP-15	16-SEP-15	16-SEP-15	16-SEP-15	16-SEP-15
Sampled Time	15:05	15:01	16:45	16:00	14:35
Client ID	P03-03-2	P03-01-2	P03-03-4	P03-03-9	P03-05-4
Grouping / **Analyte**					
WATER					
Physical Tests					
Conductivity (uS/cm)	2880	437	2040	22600	2370
Hardness (as CaCO3) (mg/L)	513	225	672	3380	1020
pH (pH)	4.13	7.96	5.31	3.24	5.40
Total Suspended Solids (mg/L)	45.7	11.4	22.7	1110	18.7
Anions and Nutrients					
Acidity (as CaCO3) (mg/L)	2740	4.4	1170	38900	594
Alkalinity, Total (as CaCO3) (mg/L)	<1.0	185	2.1	<1.0	9.5
Chloride (Cl) (mg/L)	<10 DLA	<0.50	<5.0 DLA	<25 DLA	<5.0 DLA
Sulfate (SO4) (mg/L)	2990	61.6	1790	44200	1710
Total Metals					
Aluminum (Al)-Total (mg/L)					
Antimony (Sb)-Total (mg/L)					
Arsenic (As)-Total (mg/L)					
Barium (Ba)-Total (mg/L)					
Beryllium (Be)-Total (mg/L)					
Bismuth (Bi)-Total (mg/L)					
Boron (B)-Total (mg/L)					
Cadmium (Cd)-Total (mg/L)					
Calcium (Ca)-Total (mg/L)					
Cesium (Cs)-Total (mg/L)					
Chromium (Cr)-Total (mg/L)					
Cobalt (Co)-Total (mg/L)					
Copper (Cu)-Total (mg/L)					
Iron (Fe)-Total (mg/L)					
Lead (Pb)-Total (mg/L)					
Lithium (Li)-Total (mg/L)					
Magnesium (Mg)-Total (mg/L)					
Manganese (Mn)-Total (mg/L)					
Molybdenum (Mo)-Total (mg/L)					
Nickel (Ni)-Total (mg/L)					
Phosphorus (P)-Total (mg/L)					
Potassium (K)-Total (mg/L)					
Rubidium (Rb)-Total (mg/L)					
Selenium (Se)-Total (mg/L)					
Silicon (Si)-Total (mg/L)					
Silver (Ag)-Total (mg/L)					
Sodium (Na)-Total (mg/L)					
Strontium (Sr)-Total (mg/L)					
Sulfur (S)-Total (mg/L)					

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1674773-31	L1674773-32	L1674773-33	L1674773-34	
Description	Water	Water	Water	Water	
Sampled Date	16-SEP-15	16-SEP-15	16-SEP-15		
Sampled Time	12:17	09:47	10:53		
Client ID	P03-06-01	P03-06-06	P03-06-02	TRAVEL BLANK	
Grouping / **Analyte**					
WATER					
Physical Tests					
Conductivity (uS/cm)	3990	10100	4940	<2.0	
Hardness (as CaCO3) (mg/L)	1900	4430	1920	<0.50	
pH (pH)	4.52	3.76	4.23	5.54	
Total Suspended Solids (mg/L)	74.7	1400	2690	<1.0	
Anions and Nutrients					
Acidity (as CaCO3) (mg/L)	2640	5870	2850	<1.0	
Alkalinity, Total (as CaCO3) (mg/L)	<1.0	<1.0	<1.0	<1.0	
Chloride (Cl) (mg/L)	<10 DLA	<25 DLA	<10 DLA	<0.50	
Sulfate (SO4) (mg/L)	4460	12500	4680	<0.30	
Total Metals					
Aluminum (Al)-Total (mg/L)				<0.0030	
Antimony (Sb)-Total (mg/L)				<0.00010	
Arsenic (As)-Total (mg/L)				<0.00010	
Barium (Ba)-Total (mg/L)				<0.000050	
Beryllium (Be)-Total (mg/L)				<0.00010	
Bismuth (Bi)-Total (mg/L)				<0.000050	
Boron (B)-Total (mg/L)				<0.010	
Cadmium (Cd)-Total (mg/L)				<0.0000050	
Calcium (Ca)-Total (mg/L)				<0.050	
Cesium (Cs)-Total (mg/L)				<0.000010	
Chromium (Cr)-Total (mg/L)				0.00010	
Cobalt (Co)-Total (mg/L)				<0.00010	
Copper (Cu)-Total (mg/L)				<0.00050	
Iron (Fe)-Total (mg/L)				<0.010	
Lead (Pb)-Total (mg/L)				<0.000050	
Lithium (Li)-Total (mg/L)				<0.0010	
Magnesium (Mg)-Total (mg/L)				<0.0050	
Manganese (Mn)-Total (mg/L)				<0.00010	
Molybdenum (Mo)-Total (mg/L)				<0.000050	
Nickel (Ni)-Total (mg/L)				<0.00050	
Phosphorus (P)-Total (mg/L)				<0.050	
Potassium (K)-Total (mg/L)				<0.050	
Rubidium (Rb)-Total (mg/L)				<0.00020	
Selenium (Se)-Total (mg/L)				<0.000050	
Silicon (Si)-Total (mg/L)				<0.050	
Silver (Ag)-Total (mg/L)				<0.000010	
Sodium (Na)-Total (mg/L)				<0.050	
Strontium (Sr)-Total (mg/L)				<0.00020	
Sulfur (S)-Total (mg/L)				<0.50	

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1674773-1 Water 15-SEP-15 17:00 SRK05-5C	L1674773-2 Water 15-SEP-15 16:20 SRK05-9	L1674773-3 Water 15-SEP-15 15:42 P96-9A	L1674773-4 Water 15-SEP-15 15:15 BH05-9B-R(P96-9BR)	L1674773-5 Water 15-SEP-15 14:27 SRK05-8
WATER						
Total Metals	Tellurium (Te)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
	Thorium (Th)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Tungsten (W)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
	Zirconium (Zr)-Total (mg/L)					
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0050	0.0017	0.0040	0.0025	<0.0020 DLA
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	0.00020	<0.00020 DLA	<0.00010	<0.00020 DLA
	Arsenic (As)-Dissolved (mg/L)	0.00452	0.00100	0.00109	0.0199	0.00105
	Barium (Ba)-Dissolved (mg/L)	0.0818	0.0301	0.0538	0.0160	0.0117
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00010	<0.00020 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00010 DLA	<0.000050	<0.00010 DLA
	Boron (B)-Dissolved (mg/L)	0.010	<0.010	<0.020 DLA	0.038	<0.020 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.0000271	0.000161	0.000758	0.0000063	0.000027
	Calcium (Ca)-Dissolved (mg/L)	96.7	239	359	47.6	421
	Cesium (Cs)-Dissolved (mg/L)	<0.000010	0.000035	<0.000020 DLA	0.000213	<0.000020 DLA
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	0.00057	0.00048	<0.00010	0.00073
	Cobalt (Co)-Dissolved (mg/L)	0.00090	<0.00010	0.00022	<0.00010	<0.00020 DLA
	Copper (Cu)-Dissolved (mg/L)	0.00046	0.00100	0.00293	<0.00020	0.00283
	Iron (Fe)-Dissolved (mg/L)	0.245	<0.010	<0.020 DLA	0.793	<0.020 DLA
	Lead (Pb)-Dissolved (mg/L)	0.000331	0.000341	0.00011	0.00132	0.00012
	Lithium (Li)-Dissolved (mg/L)	0.0087	0.0077	0.0130	0.0228	0.0194
	Magnesium (Mg)-Dissolved (mg/L)	45.3	173	328	22.1	235
	Manganese (Mn)-Dissolved (mg/L)	1.10	0.00028	0.0643	0.0930	<0.00020 DLA
	Molybdenum (Mo)-Dissolved (mg/L)	0.0198	0.00126	0.00077	0.0108	0.00044
	Nickel (Ni)-Dissolved (mg/L)	0.00205	0.00135	0.0174	<0.00050	0.0021
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.10 DLA	<0.050	<0.10 DLA
	Potassium (K)-Dissolved (mg/L)	1.76	3.05	5.71	1.78	1.99
	Rubidium (Rb)-Dissolved (mg/L)	0.00135	0.00129	0.00046	0.00330	0.00104
	Selenium (Se)-Dissolved (mg/L)	<0.000050	0.000892	0.00020	<0.000050	0.00031
	Silicon (Si)-Dissolved (mg/L)	5.59	4.61	6.85	6.68	6.67
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000020 DLA	<0.000010	<0.000020 DLA

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1674773-6	L1674773-7	L1674773-8	L1674773-9	L1674773-10
	Description	Water	Water	Water	Water	Water
	Sampled Date	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15
	Sampled Time	13:45	10:50	13:45	13:45	09:05
	Client ID	SRK05-07	V36	MW15-1100	FIELD BLANK-600	V34
Grouping	**Analyte**					
WATER						
Total Metals	Tellurium (Te)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
	Thorium (Th)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Tungsten (W)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
	Zirconium (Zr)-Total (mg/L)					
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0020 DLA	<0.0020 DLA	<0.0020 DLA	<0.0010	0.0010
	Antimony (Sb)-Dissolved (mg/L)	0.00038	<0.00020 DLA	0.00040	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00297	0.00267	0.00314	<0.00010	0.00268
	Barium (Ba)-Dissolved (mg/L)	0.0490	0.00834	0.0486	<0.000050	0.0401
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00010 DLA	<0.00010 DLA	<0.00010 DLA	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.020 DLA	<0.020 DLA	<0.020 DLA	<0.010	0.021
	Cadmium (Cd)-Dissolved (mg/L)	0.000093	0.000442	0.000153	<0.0000050	<0.0000050
	Calcium (Ca)-Dissolved (mg/L)	496	431	487	<0.050	222
	Cesium (Cs)-Dissolved (mg/L)	0.000031	0.000044	0.000034	<0.000010	<0.000010
	Chromium (Cr)-Dissolved (mg/L)	0.00069	0.00030	0.00065	<0.00010	0.00037
	Cobalt (Co)-Dissolved (mg/L)	0.00113	0.00240	0.00110	<0.00010	0.00202
	Copper (Cu)-Dissolved (mg/L)	0.00107	0.00149	0.00105	<0.00020	<0.00020
	Iron (Fe)-Dissolved (mg/L)	<0.020 DLA	0.118	<0.020 DLA	<0.010	2.19
	Lead (Pb)-Dissolved (mg/L)	0.00014	0.00141	0.00011	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0115	0.0495	0.0111	<0.0010	0.0284
	Magnesium (Mg)-Dissolved (mg/L)	328	302	322	<0.0050	228
	Manganese (Mn)-Dissolved (mg/L)	0.0138	0.157	0.0142	<0.00010	0.0631
	Molybdenum (Mo)-Dissolved (mg/L)	0.00044	0.00212	0.00046	<0.000050	0.00133
	Nickel (Ni)-Dissolved (mg/L)	0.0266	0.0144	0.0271	<0.00050	0.00535
	Phosphorus (P)-Dissolved (mg/L)	<0.10 DLA	<0.10 DLA	<0.10 DLA	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	2.76	5.98	2.76	<0.050	4.71
	Rubidium (Rb)-Dissolved (mg/L)	0.00220	0.00279	0.00217	<0.00020	0.00295
	Selenium (Se)-Dissolved (mg/L)	0.00019	0.00058	0.00014	<0.000050	<0.000050
	Silicon (Si)-Dissolved (mg/L)	7.49	7.98	7.37	<0.050	7.69
	Silver (Ag)-Dissolved (mg/L)	<0.000020 DLA	<0.000020 DLA	<0.000020 DLA	<0.000010	<0.000010

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1674773-11 Water 15-SEP-15 09:40 V35	L1674773-12 Water 15-SEP-15 17:52 SRK08-P14	L1674773-13 Water 15-SEP-15 15:56 P09-GSIB	L1674773-14 Water 15-SEP-15 16:33 P09-GSIA	L1674773-15 Water 15-SEP-15 11:23 P09-LCD1
WATER						
Total Metals	Tellurium (Te)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
	Thorium (Th)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Tungsten (W)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
	Zirconium (Zr)-Total (mg/L)					
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0020 DLA	<0.0020 DLA	0.0011	0.0010	<0.0010
	Antimony (Sb)-Dissolved (mg/L)	0.00030	0.00020	0.00030	0.0152	0.00022
	Arsenic (As)-Dissolved (mg/L)	0.00152	0.00085	1.52	0.0878	0.110
	Barium (Ba)-Dissolved (mg/L)	0.00945	0.0526	0.0251	0.0131	0.0430
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 DLA	<0.00020 DLA	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00010 DLA	<0.00010 DLA	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	<0.020 DLA	<0.020 DLA	0.014	<0.010	0.012
	Cadmium (Cd)-Dissolved (mg/L)	0.000201	0.000051	0.0000635	0.00142	0.0000380
	Calcium (Ca)-Dissolved (mg/L)	476	403	245	160	155
	Cesium (Cs)-Dissolved (mg/L)	<0.000020 DLA	0.00424	0.000761	0.00245	0.000018
	Chromium (Cr)-Dissolved (mg/L)	0.00076	0.00024	0.00014	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	<0.00020 DLA	<0.00020 DLA	0.00429	0.0752	0.00061
	Copper (Cu)-Dissolved (mg/L)	0.00069	0.00378	<0.00020	<0.00020	<0.00020
	Iron (Fe)-Dissolved (mg/L)	<0.020 DLA	<0.020 DLA	3.62	0.626	5.10
	Lead (Pb)-Dissolved (mg/L)	<0.00010 DLA	<0.00010 DLA	<0.000050	0.0388	0.0270
	Lithium (Li)-Dissolved (mg/L)	0.0267	0.0101	0.0136	0.0091	0.0104
	Magnesium (Mg)-Dissolved (mg/L)	273	106	87.3	65.0	44.0
	Manganese (Mn)-Dissolved (mg/L)	0.00490	0.00141	0.700	1.70	0.695
	Molybdenum (Mo)-Dissolved (mg/L)	0.00111	0.00078	0.00326	0.00205	0.00521
	Nickel (Ni)-Dissolved (mg/L)	0.0058	0.0019	0.0198	0.129	0.00100
	Phosphorus (P)-Dissolved (mg/L)	<0.10 DLA	<0.10 DLA	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	4.31	1.22	3.03	3.94	2.88
	Rubidium (Rb)-Dissolved (mg/L)	0.00131	0.00238	0.00548	0.00557	0.00124
	Selenium (Se)-Dissolved (mg/L)	0.00127	0.00159	<0.000050	<0.000050	<0.000050
	Silicon (Si)-Dissolved (mg/L)	6.62	6.31	7.19	2.16	7.68
	Silver (Ag)-Dissolved (mg/L)	<0.000020 DLA	<0.000020 DLA	<0.000010	<0.000010	<0.000010

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1674773-16 Water 15-SEP-15 10:35 P09-LCD4	L1674773-17 Water 15-SEP-15 09:50 P09-LCD6	L1674773-18 Water 15-SEP-15 09:50 MW15-1200	L1674773-19 Water 15-SEP-15 08:33 V37	L1674773-20 Water 16-SEP-15 09:30 P09-VC2
WATER						
Total Metals	Tellurium (Te)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
	Thorium (Th)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Tungsten (W)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
	Zirconium (Zr)-Total (mg/L)					
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0030	<0.0010	<0.0010	0.0014	0.0015
	Antimony (Sb)-Dissolved (mg/L)	0.00051	0.00010	0.00011	<0.00010	0.00048
	Arsenic (As)-Dissolved (mg/L)	0.00304	0.123	0.126	0.00239	0.119
	Barium (Ba)-Dissolved (mg/L)	0.0811	0.0467	0.0459	0.0432	0.0433
	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)	0.012	0.011	0.011	0.037	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.0000899	0.0000219	0.0000215	0.0000056	<0.0000050
	Calcium (Ca)-Dissolved (mg/L)	89.8	161	162	93.0	57.9
	Cesium (Cs)-Dissolved (mg/L)	0.000015	0.000026	0.000025	0.000011	0.000036
	Chromium (Cr)-Dissolved (mg/L)	0.00023	<0.00010	<0.00010	0.00014	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00018	0.00105	0.00106	0.00039	0.00023
	Copper (Cu)-Dissolved (mg/L)	0.00469	<0.00020	<0.00020	<0.00020	<0.00020
	Iron (Fe)-Dissolved (mg/L)	0.017	7.86	7.88	0.028	1.91
	Lead (Pb)-Dissolved (mg/L)	0.000998	0.00930	0.00964	<0.000050	0.000844
	Lithium (Li)-Dissolved (mg/L)	0.0065	0.0085	0.0084	0.0285	0.0078
	Magnesium (Mg)-Dissolved (mg/L)	24.7	47.3	47.5	107	11.1
	Manganese (Mn)-Dissolved (mg/L)	0.283	0.550	0.555	0.0988	0.0922
	Molybdenum (Mo)-Dissolved (mg/L)	0.00464	0.00233	0.00230	0.0238	0.00999
	Nickel (Ni)-Dissolved (mg/L)	0.00487	0.00145	0.00146	0.00173	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.050	0.058	0.057	0.203	<0.050
	Potassium (K)-Dissolved (mg/L)	1.67	2.42	2.41	5.39	1.12
	Rubidium (Rb)-Dissolved (mg/L)	0.00078	0.00123	0.00120	0.00258	0.00185
	Selenium (Se)-Dissolved (mg/L)	0.000230	<0.000050	<0.000050	0.000100	<0.000050
	Silicon (Si)-Dissolved (mg/L)	4.81	7.84	8.01	3.83	7.05
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1674773-21 Water 16-SEP-15 09:30 FIELD BLANK-700	L1674773-22 Water 16-SEP-15 10:20 P09-VC1	L1674773-23 Water 16-SEP-15 11:42 P2001-2A	L1674773-24 Water 16-SEP-15 11:26 P2001-2B	L1674773-25 Water 16-SEP-15 13:15 SRK08-P15
WATER						
Total Metals	Tellurium (Te)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
	Thorium (Th)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Tungsten (W)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
	Zirconium (Zr)-Total (mg/L)					
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0010	0.0012	0.0033	0.0025	<0.0020 DLA
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	0.00026
	Arsenic (As)-Dissolved (mg/L)	<0.00010	0.00173	0.00999	0.00062	0.00025
	Barium (Ba)-Dissolved (mg/L)	<0.000050	0.0175	0.0136	0.0298	0.0366
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00010 DLA	<0.00010 DLA	<0.00010 DLA
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.020 DLA	<0.020 DLA	<0.020 DLA
	Cadmium (Cd)-Dissolved (mg/L)	<0.0000050	<0.0000050	0.000201	<0.000010 DLA	0.000070
	Calcium (Ca)-Dissolved (mg/L)	<0.050	42.9	524	548	333
	Cesium (Cs)-Dissolved (mg/L)	<0.000010	0.000582	<0.000020 DLA	<0.000020 DLA	0.000589
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	0.00025	<0.00020 DLA	0.00057
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	0.00093	0.00032	<0.00020 DLA
	Copper (Cu)-Dissolved (mg/L)	<0.00020	<0.00020	0.00065	<0.00040 DLA	0.00104
	Iron (Fe)-Dissolved (mg/L)	<0.010	0.334	2.79	3.86	<0.020 DLA
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	0.00017	<0.00010 DLA	0.00031
	Lithium (Li)-Dissolved (mg/L)	<0.0010	0.0031	0.0444	0.0388	0.0113
	Magnesium (Mg)-Dissolved (mg/L)	<0.0050	8.77	292	289	120
	Manganese (Mn)-Dissolved (mg/L)	<0.00010	0.0128	0.178	0.203	<0.00020 DLA
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050	0.000352	0.00103	0.00046	0.00082
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.00050	0.0068	0.0032	0.0167
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.10 DLA	<0.10 DLA	<0.10 DLA
	Potassium (K)-Dissolved (mg/L)	<0.050	0.959	5.59	5.56	1.98
	Rubidium (Rb)-Dissolved (mg/L)	<0.00020	0.00161	0.00134	0.00147	0.00107
	Selenium (Se)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00010 DLA	<0.00010 DLA	0.00149
	Silicon (Si)-Dissolved (mg/L)	<0.050	6.10	8.39	8.05	5.63
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000020 DLA	0.000027	<0.000020 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1674773-26 Water 16-SEP-15 15:05 P03-03-2	L1674773-27 Water 16-SEP-15 15:01 P03-01-2	L1674773-28 Water 16-SEP-15 16:45 P03-03-4	L1674773-29 Water 16-SEP-15 16:00 P03-03-9	L1674773-30 Water 16-SEP-15 14:35 P03-05-4
WATER						
Total Metals	Tellurium (Te)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
	Thorium (Th)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Tungsten (W)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
	Zirconium (Zr)-Total (mg/L)					
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	2.78	0.0022	0.0781	<0.20 DLA	0.0133
	Antimony (Sb)-Dissolved (mg/L)	<0.0020 DLA	<0.00010	<0.00050 DLA	<0.020 DLA	<0.00050 DLA
	Arsenic (As)-Dissolved (mg/L)	<0.0020 DLA	0.00101	0.00388	<0.020 DLA	0.00129
	Barium (Ba)-Dissolved (mg/L)	0.0084	0.133	0.0309	<0.010 DLA	0.0276
	Beryllium (Be)-Dissolved (mg/L)	<0.0020 DLA	<0.00010	<0.00050 DLA	<0.020 DLA	<0.00050 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 DLA	<0.000050	<0.00025 DLA	<0.010 DLA	<0.00025 DLA
	Boron (B)-Dissolved (mg/L)	<0.20 DLA	<0.010	<0.050 DLA	<2.0 DLA	<0.050 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.00771	<0.0000050	0.0107	0.0257	0.00101
	Calcium (Ca)-Dissolved (mg/L)	138	70.3	179	441	306
	Cesium (Cs)-Dissolved (mg/L)	<0.00020 DLA	<0.000010	<0.000050 DLA	0.0043	<0.000050 DLA
	Chromium (Cr)-Dissolved (mg/L)	<0.0020 DLA	<0.00010	<0.00050 DLA	<0.020 DLA	<0.00050 DLA
	Cobalt (Co)-Dissolved (mg/L)	0.0932	0.00723	0.339	<0.020 DLA	0.194
	Copper (Cu)-Dissolved (mg/L)	<0.0040 DLA	<0.00020	<0.0010 DLA	<0.040 DLA	<0.0010 DLA
	Iron (Fe)-Dissolved (mg/L)	1100	0.391	497	21600	289
	Lead (Pb)-Dissolved (mg/L)	0.0034	0.000166	0.00085	<0.010 DLA	<0.00025 DLA
	Lithium (Li)-Dissolved (mg/L)	0.043	0.0052	0.0611	<0.20 DLA	0.0530
	Magnesium (Mg)-Dissolved (mg/L)	40.8	12.1	54.8	554	63.4
	Manganese (Mn)-Dissolved (mg/L)	14.1	0.539	46.4	138	46.0
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010 DLA	0.00333	0.00050	<0.010 DLA	0.00065
	Nickel (Ni)-Dissolved (mg/L)	0.148	0.00170	0.379	0.11	0.0784
	Phosphorus (P)-Dissolved (mg/L)	<1.0 DLA	<0.050	<0.25 DLA	<10 DLA	<0.25 DLA
	Potassium (K)-Dissolved (mg/L)	4.8	2.52	5.64	75	4.71
	Rubidium (Rb)-Dissolved (mg/L)	<0.0040 DLA	0.00062	<0.0010 DLA	0.100	0.0011
	Selenium (Se)-Dissolved (mg/L)	<0.0010 DLA	<0.000050	<0.00025 DLA	<0.010 DLA	<0.00025 DLA
	Silicon (Si)-Dissolved (mg/L)	20.6	5.28	18.4	<10 DLA	13.0
	Silver (Ag)-Dissolved (mg/L)	<0.00020 DLA	<0.000010	<0.000050 DLA	<0.0020 DLA	<0.000050 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1674773-31	L1674773-32	L1674773-33	L1674773-34	
Description	Water	Water	Water	Water	
Sampled Date	16-SEP-15	16-SEP-15	16-SEP-15		
Sampled Time	12:17	09:47	10:53		
Client ID	P03-06-01	P03-06-06	P03-06-02	TRAVEL BLANK	
Grouping / **Analyte**					
WATER					
Total Metals					
Tellurium (Te)-Total (mg/L)				<0.00020	
Thallium (Tl)-Total (mg/L)				<0.000010	
Thorium (Th)-Total (mg/L)				<0.00010	
Tin (Sn)-Total (mg/L)				<0.00010	
Titanium (Ti)-Total (mg/L)				<0.00030	
Tungsten (W)-Total (mg/L)				<0.00010	
Uranium (U)-Total (mg/L)				<0.000010	
Vanadium (V)-Total (mg/L)				<0.00050	
Zinc (Zn)-Total (mg/L)				<0.0030	
Zirconium (Zr)-Total (mg/L)				<0.00030	
Dissolved Metals					
Dissolved Metals Filtration Location	FIELD	FIELD	FIELD		
Aluminum (Al)-Dissolved (mg/L)	4.46	0.61	3.10		
Antimony (Sb)-Dissolved (mg/L)	<0.0020 DLA	<0.010 DLA	<0.0020 DLA		
Arsenic (As)-Dissolved (mg/L)	<0.0020 DLA	0.040	<0.0020 DLA		
Barium (Ba)-Dissolved (mg/L)	0.0135	0.0069	0.0130		
Beryllium (Be)-Dissolved (mg/L)	0.0058	<0.010 DLA	0.0043		
Bismuth (Bi)-Dissolved (mg/L)	<0.0010 DLA	<0.0050 DLA	<0.0010 DLA		
Boron (B)-Dissolved (mg/L)	<0.20 DLA	<1.0 DLA	<0.20 DLA		
Cadmium (Cd)-Dissolved (mg/L)	0.0597	0.161	0.0459		
Calcium (Ca)-Dissolved (mg/L)	449 DLA	293	463 DLA		
Cesium (Cs)-Dissolved (mg/L)	<0.00020 DLA	0.0011 DLA	<0.00020 DLA		
Chromium (Cr)-Dissolved (mg/L)	<0.0020 DLA	<0.010 DLA	<0.0020 DLA		
Cobalt (Co)-Dissolved (mg/L)	2.32	0.338 DLA	2.06 DLA		
Copper (Cu)-Dissolved (mg/L)	0.0082	<0.020 DLA	<0.0040 DLA		
Iron (Fe)-Dissolved (mg/L)	1180	1830	1260		
Lead (Pb)-Dissolved (mg/L)	0.0134	0.163	0.0144		
Lithium (Li)-Dissolved (mg/L)	0.157	0.22	0.159		
Magnesium (Mg)-Dissolved (mg/L)	188	898	186		
Manganese (Mn)-Dissolved (mg/L)	156	201 DLA	146		
Molybdenum (Mo)-Dissolved (mg/L)	0.0016	<0.0050 DLA	0.0017		
Nickel (Ni)-Dissolved (mg/L)	2.58 DLA	0.335 DLA	2.38 DLA		
Phosphorus (P)-Dissolved (mg/L)	<1.0 DLA	<5.0 DLA	<1.0 DLA		
Potassium (K)-Dissolved (mg/L)	9.0 DLA	11.9	9.4 DLA		
Rubidium (Rb)-Dissolved (mg/L)	<0.0040 DLA	0.034 DLA	<0.0040 DLA		
Selenium (Se)-Dissolved (mg/L)	<0.0010 DLA	<0.0050 DLA	<0.0010 DLA		
Silicon (Si)-Dissolved (mg/L)	38.3 DLA	7.5 DLA	36.7 DLA		
Silver (Ag)-Dissolved (mg/L)	<0.00020	<0.0010	<0.00020		

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1674773-1 Water 15-SEP-15 17:00 SRK05-5C	L1674773-2 Water 15-SEP-15 16:20 SRK05-9	L1674773-3 Water 15-SEP-15 15:42 P96-9A	L1674773-4 Water 15-SEP-15 15:15 BH05-9B-R(P96-9BR)	L1674773-5 Water 15-SEP-15 14:27 SRK05-8
WATER						
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	17.1	9.22	12.3	48.2	10.6
	Strontium (Sr)-Dissolved (mg/L)	0.758	0.751	1.25	1.11	1.47
	Sulfur (S)-Dissolved (mg/L)	94.0	324	597	56.1	489
	Tellurium (Te)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00040 DLA	<0.00020	<0.00040 DLA
	Thallium (Tl)-Dissolved (mg/L)	0.000012	<0.000010	<0.000020 DLA	<0.000010	<0.000020 DLA
	Thorium (Th)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00010	<0.00020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00010	<0.00020 DLA
	Titanium (Ti)-Dissolved (mg/L)	0.00032	<0.00030	<0.00060 DLA	<0.00030	<0.00060 DLA
	Tungsten (W)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00010	<0.00020 DLA
	Uranium (U)-Dissolved (mg/L)	0.00403	0.0271	0.0444	0.00103	0.0295
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0010 DLA	0.00058	<0.0010 DLA
	Zinc (Zn)-Dissolved (mg/L)	0.0014	0.0041	0.136	<0.0010	<0.0020 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00060 DLA	<0.00030	<0.00060 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1674773-6 Water 15-SEP-15 13:45 SRK05-07	L1674773-7 Water 15-SEP-15 10:50 V36	L1674773-8 Water 15-SEP-15 13:45 MW15-1100	L1674773-9 Water 15-SEP-15 13:45 FIELD BLANK-600	L1674773-10 Water 15-SEP-15 09:05 V34
WATER						
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	14.2	9.40	14.2	<0.050	8.14
	Strontium (Sr)-Dissolved (mg/L)	1.47	1.89	1.45	<0.00020	1.66
	Sulfur (S)-Dissolved (mg/L)	663	570	640	<0.50	203
	Tellurium (Te)-Dissolved (mg/L)	<0.00040 DLA	<0.00040 DLA	<0.00040 DLA	<0.00020	<0.00020
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 DLA	0.000089	<0.000020 DLA	<0.000010	<0.000010
	Thorium (Th)-Dissolved (mg/L)	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.00060 DLA	<0.00060 DLA	<0.00060 DLA	<0.00030	0.00043
	Tungsten (W)-Dissolved (mg/L)	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA	<0.00010	<0.00010
	Uranium (U)-Dissolved (mg/L)	0.0353	0.0660	0.0349	<0.000010	0.0216
	Vanadium (V)-Dissolved (mg/L)	<0.0010 DLA	<0.0010 DLA	<0.0010 DLA	<0.00050	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	0.0041	0.0746	0.0040	<0.0010	0.0031
	Zirconium (Zr)-Dissolved (mg/L)	0.00064	<0.00060 DLA	0.00061	<0.00030	0.00174

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1674773-11	L1674773-12	L1674773-13	L1674773-14	L1674773-15
Description	Water	Water	Water	Water	Water
Sampled Date	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15
Sampled Time	09:40	17:52	15:56	16:33	11:23
Client ID	V35	SRK08-P14	P09-GSIB	P09-GSIA	P09-LCD1
Grouping / **Analyte**					
WATER					
Dissolved Metals Sodium (Na)-Dissolved (mg/L)	8.85	6.27	18.6	10.5	17.2
Strontium (Sr)-Dissolved (mg/L)	1.16	1.77	1.64	0.596	0.955
Sulfur (S)-Dissolved (mg/L)	583 DLA	379 DLA	255	155	108
Tellurium (Te)-Dissolved (mg/L)	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Dissolved (mg/L)	0.000028	<0.000020 DLA	0.000072	0.00589	0.000012
Thorium (Th)-Dissolved (mg/L)	<0.00020 DLA	<0.00020 DLA	<0.00010	<0.00010	<0.00010
Tin (Sn)-Dissolved (mg/L)	<0.00020 DLA	<0.00020 DLA	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved (mg/L)	<0.00060 DLA	<0.00060 DLA	<0.00030	<0.00030	<0.00030
Tungsten (W)-Dissolved (mg/L)	<0.00020 DLA	<0.00020 DLA	0.00060	<0.00010	<0.00010
Uranium (U)-Dissolved (mg/L)	0.0910	0.00849	0.00867	0.0152	0.00812
Vanadium (V)-Dissolved (mg/L)	<0.0010 DLA	<0.0010 DLA	<0.00050	<0.00050	<0.00050
Zinc (Zn)-Dissolved (mg/L)	0.0062	0.0051	0.476	4.48	0.0067
Zirconium (Zr)-Dissolved (mg/L)	<0.00060 DLA	<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	L1674773-16	L1674773-17	L1674773-18	L1674773-19	L1674773-20
Description	Water	Water	Water	Water	Water
Sampled Date	15-SEP-15	15-SEP-15	15-SEP-15	15-SEP-15	16-SEP-15
Sampled Time	10:35	09:50	09:50	08:33	09:30
Client ID	P09-LCD4	P09-LCD6	MW15-1200	V37	P09-VC2
Grouping **Analyte**					
WATER					
Dissolved Metals Sodium (Na)-Dissolved (mg/L)	65.9	7.02	6.97	29.6	5.95
Strontium (Sr)-Dissolved (mg/L)	0.452	0.846	0.844	0.662	0.804
Sulfur (S)-Dissolved (mg/L)	39.1	119	120	93.3	13.1
Tellurium (Te)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Dissolved (mg/L)	0.000015	<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	0.00042	<0.00010
Uranium (U)-Dissolved (mg/L)	0.00331	0.00361	0.00354	0.00274	0.00325
Vanadium (V)-Dissolved (mg/L)	0.00069	<0.00050	<0.00050	<0.00050	<0.00050
Zinc (Zn)-Dissolved (mg/L)	0.0056	0.0029	0.0023	0.0042	0.0789
Zirconium (Zr)-Dissolved (mg/L)	0.00038	<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	L1674773-21 Water 16-SEP-15 09:30 FIELD BLANK-700	L1674773-22 Water 16-SEP-15 10:20 P09-VC1	L1674773-23 Water 16-SEP-15 11:42 P2001-2A	L1674773-24 Water 16-SEP-15 11:26 P2001-2B	L1674773-25 Water 16-SEP-15 13:15 SRK08-P15
WATER						
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	<0.050	20.0	37.2	9.51	5.79
	Strontium (Sr)-Dissolved (mg/L)	<0.00020	0.561	2.58	2.71	1.13
	Sulfur (S)-Dissolved (mg/L)	<0.50	20.4	609	649	329
	Tellurium (Te)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00040 DLA	<0.00040 DLA	<0.00040 DLA
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000020 DLA	<0.000020 DLA	<0.000020 DLA
	Thorium (Th)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.00030	<0.00030	<0.00060 DLA	<0.00060 DLA	<0.00060 DLA
	Tungsten (W)-Dissolved (mg/L)	<0.00010	0.00056	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA
	Uranium (U)-Dissolved (mg/L)	<0.000010	0.00548	0.0855	0.0720	0.0231
	Vanadium (V)-Dissolved (mg/L)	<0.00050	0.00053	<0.0010 DLA	<0.0010 DLA	<0.0010 DLA
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	<0.0010	0.0101	0.0031	0.0053
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030	<0.00030	0.00073	0.00099	<0.00060 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1674773-26 Water 16-SEP-15 15:05 P03-03-2	L1674773-27 Water 16-SEP-15 15:01 P03-01-2	L1674773-28 Water 16-SEP-15 16:45 P03-03-4	L1674773-29 Water 16-SEP-15 16:00 P03-03-9	L1674773-30 Water 16-SEP-15 14:35 P03-05-4
WATER						
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	10.9	4.90	21.7	315	19.0
	Strontium (Sr)-Dissolved (mg/L)	0.504	0.322	0.619	0.854	0.878
	Sulfur (S)-Dissolved (mg/L)	927	19.4	582	14700	549
	Tellurium (Te)-Dissolved (mg/L)	DLA <0.0040	<0.00020	DLA <0.0010	DLA <0.040	DLA <0.0010
	Thallium (Tl)-Dissolved (mg/L)	DLA <0.00020	<0.000010	0.000088	DLA <0.0020	DLA <0.000050
	Thorium (Th)-Dissolved (mg/L)	DLA <0.0020	<0.00010	DLA <0.00050	DLA <0.020	DLA <0.00050
	Tin (Sn)-Dissolved (mg/L)	DLA <0.0020	<0.00010	DLA <0.00050	DLA <0.020	DLA <0.00050
	Titanium (Ti)-Dissolved (mg/L)	DLA <0.0060	<0.00030	DLA <0.0015	DLA <0.060	DLA <0.0015
	Tungsten (W)-Dissolved (mg/L)	DLA <0.0020	0.00060	DLA <0.00050	DLA <0.020	DLA <0.00050
	Uranium (U)-Dissolved (mg/L)	0.00182	0.00294	0.000170	DLA <0.0020	0.000715
	Vanadium (V)-Dissolved (mg/L)	DLA <0.010	<0.00050	DLA <0.0025	DLA <0.10	DLA <0.0025
	Zinc (Zn)-Dissolved (mg/L)	132	0.0163	18.1	713	0.503
	Zirconium (Zr)-Dissolved (mg/L)	DLA <0.0060	<0.00030	DLA <0.0015	DLA <0.060	DLA <0.0015

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1674773-31 Water 16-SEP-15 12:17 P03-06-01	L1674773-32 Water 16-SEP-15 09:47 P03-06-06	L1674773-33 Water 16-SEP-15 10:53 P03-06-02	L1674773-34 Water TRAVEL BLANK	
WATER						
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	24.3	58.9	24.1		
	Strontium (Sr)-Dissolved (mg/L)	2.03	0.467	1.97		
	Sulfur (S)-Dissolved (mg/L)	1450 DLA	3150 DLA	1530 DLA		
	Tellurium (Te)-Dissolved (mg/L)	<0.0040	<0.020	<0.0040		
	Thallium (Tl)-Dissolved (mg/L)	<0.00020 DLA	<0.0010 DLA	<0.00020 DLA		
	Thorium (Th)-Dissolved (mg/L)	<0.0020 DLA	<0.010 DLA	<0.0020 DLA		
	Tin (Sn)-Dissolved (mg/L)	<0.0020 DLA	<0.010 DLA	<0.0020 DLA		
	Titanium (Ti)-Dissolved (mg/L)	<0.0060 DLA	<0.030 DLA	<0.0060 DLA		
	Tungsten (W)-Dissolved (mg/L)	<0.0020	<0.010	<0.0020		
	Uranium (U)-Dissolved (mg/L)	0.00373	0.0682	0.00211		
	Vanadium (V)-Dissolved (mg/L)	<0.010 DLA	<0.050 DLA	<0.010 DLA		
	Zinc (Zn)-Dissolved (mg/L)	35.2	796	39.3		
	Zirconium (Zr)-Dissolved (mg/L)	<0.0060 DLA	<0.030 DLA	<0.0060 DLA		

* 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	L1674773-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -32, -33, -34, -4, -5, -6, -7, -8
Duplicate	Beryllium (Be)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Cobalt (Co)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Iron (Fe)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Phosphorus (P)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Thallium (Tl)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Thorium (Th)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Zirconium (Zr)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Titanium (Ti)-Dissolved	DLA	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Duplicate	Cadmium (Cd)-Dissolved	DLM	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	K	L1674773-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -6, -7, -8, -9
Certified Reference Material	Conductivity	LCS-H	L1674773-29, -30, -32, -33
Matrix Spike	Sulfate (SO4)	MS-B	L1674773-1, -2, -3, -4, -5
Matrix Spike	Sulfate (SO4)	MS-B	L1674773-1, -2, -3, -4, -5
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Lithium (Li)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Boron (B)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Iron (Fe)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Boron (B)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Boron (B)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Cobalt (Co)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Copper (Cu)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Nickel (Ni)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1674773-1, -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, -4, -5, -6, -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
DLM	Detection Limit Adjusted due to sample matrix effects.
K	Matrix Spike recovery outside ALS DQO due to sample matrix effects.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
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.

Reference Information

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

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

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

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

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

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

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

SO4-IC-N-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

Chain of Custody Numbers:

1-1343-005.12(2)

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

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

L1674773-COFC

COC Number: 1 - 1343-005.12 (2)

Page 1 of 4

Report To		Report Format / Distribution		Select Service Level Below (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		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 #:	Q50399		Approver ID:	Cost Center:	
Job #:	1343-005.12		GL Account:	Routing Code:	
PO / AFE:			Activity Code:		
LSD:			Location:		
ALS Lab Work Order # (lab use only)			**ALS Contact:**	**Sean Sluggett**	**Sampler:** JH, GR, AN, JC

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	total metals (excluding mercury)					Number of Containers
	SRK05-5C	15/09/2015	17:00	WATER	R	R	R	R	R	R	R	R						2
	SRK05-9	15/09/2015	16:20	WATER	R	R	R	R	R	R	R	R						2
	P96-9A	15/09/2015	15:42	WATER	R	R	R	R	R	R	R	R						2
	BH05-9B-R(P96-9BR)	15/09/2015	15:15	WATER	R	R	R	R	R	R	R	R						2
	SRK05-8	15/09/2015	14:27	WATER	R	R	R	R	R	R	R	R						2
	SRK05-07	15/09/2015	13:45	WATER	R	R	R	R	R	R	R	R						2
	V36	15/09/2015	10:50	WATER	R	R	R	R	R	R	R	R						2
	MW15-1100	15/09/2015	13:45	WATER	R	R	R	R	R	R	R	R						2
	Field Blank-600	15/09/2015	13:45	WATER	R	R	R	R	R	R	R	R						2
	V34	15/09/2015	9:05	WATER	R	R	R	R	R	R	R	R						2
	V35	15/09/2015	9:40	WATER	R	R	R	R	R	R	R	R						2
	SRK08-P14	15/09/2015	17:52	WATER	R	R	R	R	R	R	R	R						2

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		
4.9 3.4	2.5 2.5	5.0	7.8 - 7	coolers	arr.

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: Justin Hains	Date: Sept 17, 2015	Time: 15:00	Received by:	Date: ~~17 Sept~~	Time: 1510	Received by: Lady	Date: Sept. 18	Time: 2pm

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ALS Environmental

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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1674773-COFC

COC Number: 1 - 1343-005.12 (2)

Page 2 of 4

Report To		Report Format / Distribution	Select Service Level Below (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		Invoice Distribution	Analysis Request
	Same as Report To ☑ Yes ☐ No		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	
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 #:	Q50399	Approver ID:	Cost Center:
Job #:	1343-005.12	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only)

ALS Contact: Sean Sluggett **Sampler:** JH, GR, AN, JC

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	total metals (excluding mercury)					Number of Containers
	P09-GSIB	15/09/2015	15:56	WATER	R	R	R	R	R	R	R	R						2
	P09-GSIA	15/09/2015	16:33	WATER	R	R	R	R	R	R	R	R						2
	P09-LCD1	15/09/2015	11:23	WATER	R	R	R	R	R	R	R	R						2
	P09-LCD4	15/09/2015	10:35	WATER	R	R	R	R	R	R	R	R						2
	P09-LCD6	15/09/2015	9:50	WATER	R	R	R	R	R	R	R	R						2
	MW15-1200	15/09/2015	9:50	WATER	R	R	R	R	R	R	R	R						2
	V37	15/09/2015	8:33	WATER	R	R	R	R	R	R	R	R						2

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		
			7.8	7 coolers	avg

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:
Justin Hains	Sept 17/2015	15:00				lady	Sept. 18	2pm

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Chain of Custody (COC) / Analytical Request Form

ALS Environmental

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Canada Toll Free: 1 800 668 9878

L1674773-COFC

COC Number: 1 - 1343-005.12 (2)

Report To		Report Format / Distribution	Select Service Level Below (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		Invoice Distribution	Analysis Request
	Same as Report To ☑ Yes ☐ No	Select Invoice Distribution: ☑EMAIL ☑MAIL ☐FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
	Copy of Invoice with Report ☐ Yes ☑ No		
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 #:	Q50399	Approver ID:	Cost Center:
Job #:	1343-005.12	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

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

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	total metals (excluding mercury)					Number of Containers
	P09-VC2	16/09/2015	9:30	WATER	R	R	R	R	R	R	R	R						2
	Field Blank-700	16/09/2015	9:30	WATER	R	R	R	R	R	R	R	R						2
	P09-VC1	16/09/2015	10:20	WATER	R	R	R	R	R	R	R	R						2
	P2001-2A	16/09/2015	11:42	WATER	R	R	R	R	R	R	R	R						2
	P2001-2B	16/09/2015	11:26	WATER	R	R	R	R	R	R	R	R						2
	SRK08-P15	16/09/2015	13:15	WATER	R	R	R	R	R	R	R	R						2
	P03-03-2	16/09/2015	15:05	WATER	R	R	R	R	R	R	R	R						2
	P03-01-2	16/09/2015	15:01	WATER	R	R	R	R	R	R	R	R						2
	P03-03-4	16/09/2015	16:45	WATER	R	R	R	R	R	R	R	R						2
	P03-03-9	16/09/2015	16:00	WATER	R	R	R	R	R	R	R	R						2
	P03-05-4	16/09/2015	14:35	WATER	R	R	R	R	R	R	R	R						2
	P03-06-01	16/09/2015	12:17	WATER	R	R	R	R	R	R	R	R						2

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		
			7.8	7	coolers any

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:
Justin Hains	Sept 17, 2015	15:00				lady	Sept. 18	2pm

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COC Number: 1 - 1343-005.12 (2)

Page 4 of 4

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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 #:	Q50399	Approver ID:	Cost Center:
Job #:	1343-005.12	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

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

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	total metals (excluding mercury)					Number of Containers
	P03-06-06	16/09/2015	9:47	WATER	R	R	R	R	R	R	R	R						2
	P03-06-02	16/09/2015	10:53	WATER	R	R	R	R	R	R	R	R						2
	TRAVEL BLANK			WATER	R	R	R	R	R	R	R		R					4

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)	SAMPLE CONDITION AS RECEIVED (lab use only)
Are samples taken from a Regulated DW System? ☐ 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.	Frozen ☐ SIF Observations Yes ☐ No ☐ Ice packs Yes ☐ No ☐ Custody seal intact Yes ☐ No ☐ Cooling Initiated ☐
Are samples for human drinking water use? ☐ Yes ☑ No		INITIAL COOLER TEMPERATURES °C: FINAL COOLER TEMPERATURES °C: 7.8 - Freezer pack.

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: Justin Hains	Date: Sept 17, 2015	Time: 15:00	Received by:	Date:	Time:	Received by: lady	Date: Sept. 18	Time: 2pm

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