

December 31, 2015

Peregrine Diamonds Ltd. 201 – 1250 Homer Street Vancouver, BC V6B1C6

Attention: David Willis

Lands Administrator

Subject: Chidliak Exploration Site CH-06

August 2015 Water Quality Sampling Event

1.0 INTRODUCTION

Peregrine Diamonds Ltd.'s (Peregrine's) Type B Water Licence (#2BE-CHI1218) (the Water Licence) specifies effluent quality criteria for water discharged from trench containment areas on the Chidliak property, Nunavut (Map 1). On August 17, 2015, Tetra Tech EBA Inc. (Tetra Tech EBA) collected water quality samples to determine if water in Peregrine's CH-06 exploration trench meets the Water Licence criteria. This sampling program was conducted in conjunction with the 2015 baseline environmental studies that included surface water quality sampling at 28 annual monitoring lakes, rivers, and streams in the regional study area.

Trenching at CH-06 was conducted in the winter of 2012. At the trench site, the landscape is characterized by a mid-slope barren rock habitat, with a gentle gradient to the north northwest. The nearest sensitive receiving environment is a creek located at least 450 m to the northwest of the CH-06 trench (Photo 1). Ponded water within the trench covered an area of approximately 130 square metres (m²) in 2015, compared to approximately 450 m² in 2014.

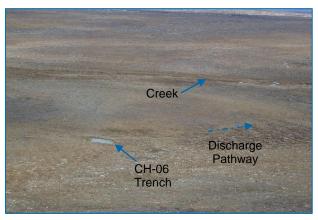


Photo 1: Looking northwest towards the trench and an unnamed creek.

ISSUED FOR USE FILE: ENVMIN03065-01

Via Email: dave@pdiam.com

2.0 SAMPLING METHODS

Ms. Karla Langlois (B.Sc., P.Biol.) of Tetra Tech EBA conducted the sampling program following standard grab-sampling methods consistent with those employed during previous baseline programs in the study area since 2009. Grab samples were collected and submitted for laboratory analysis of routine parameters, nutrients, total metals, total organic carbon, and oil and grease. A calibrated handheld Oakton® multi-parameter meter was used to record in-situ pH, electrical conductivity (EC), and water temperature.

3.0 EXPLORATION CH-06 TRENCH SAMPLING RESULTS

At the time of the sampling event, the trench water was contained and was not being discharged onto the tundra (Photo 2). A single water quality sample was collected from the trench.



Photo 2: Low water levels inside the exploration CH-06 trench, as shown, at the time of the field event.

The surface water in the trench was slightly turbid and there was no evidence of odour or surface sheen. In situ water chemistry measurements indicated the water was neutral (pH 7.0), with low EC (23.2 microsiemens per centimetre (µS/cm)), and 5.6 degrees Celsius (°C).

Water quality samples were submitted to ALS Laboratory Group (ALS) in Yellowknife on August 19, 2015, and analyzed for the full suite of parameters required under the Water Licence.

The Water Licence provides effluent quality criteria for water discharged from the trench as the Maximum Concentration of Any Grab Sample (MCAGS) for eight water quality parameters (arsenic, copper, lead, nickel, zinc, total suspended solids, oil, and grease, and pH). Analytical results for the water samples collected from the trench indicate that all parameters were well below the Water Licence effluent quality criteria (Table 3-1). The laboratory analytical results are provided in Appendix A.

Table 3-1: Water Quality Analytical Results Compared to Water Licence #2BE-CHI1218 Criteria

Parameter	CH-06 Trench	Units	Detection Limit	Water Licence MCAGS* Criteria
Total Arsenic	0.00018	mg/L	0.00010	0.50
Total Copper	0.00317	mg/L	0.00050	0.30
Total Lead	0.000395	mg/L	0.000050	0.20
Total Nickel	0.00362	mg/L	0.00050	0.50
Total Zinc	0.0044	mg/L	0.0030	0.50
Total Suspended Solids	4.8	mg/L	3.0	25.0
Oil and Grease	<1.0 (no visible sheen)	mg/L	1.0	No visible sheen
рН	7.25	-	-	6 – 9.5

^{*} MCAGS criteria = Maximum Concentration of Any Grab Sample

Quality control samples were included as part of the standardized sampling protocol during the baseline environmental studies. These quality control samples included field and travel blanks and three duplicate samples. Laboratory analysis of these quality control samples indicate that no contaminants were introduced to the travel and field blanks (i.e., analytical results all below the laboratory detection limit) (Table 3-2) and the field samples were collected in a consistent manner (i.e., analytical results of the duplicate samples are similar to their field samples) (Table 3-3). Thus, the sample methods employed during the collection, transportation, and analyses of the samples are considered satisfactory and did not lead to the introduction of potential contaminants for all parameters specified under the Water Licence (Tables 3-2 and 3-3).

Table 3-2: Travel and Field Blank Analytical Results

Parameter	Travel Blank	Field Blank	Units	Detection Limit
Total Arsenic	<0.00010	<0.00010	mg/L	0.00010
Total Copper	<0.00050	<0.00050	mg/L	0.00050
Total Lead	<0.000050	<0.000050	mg/L	0.000050
Total Nickel	<0.00050	<0.00050	mg/L	0.00050
Total Zinc	<0.0030	<0.0030	mg/L	0.0030
Total Suspended Solids	<3.0	<3.0	mg/L	3.0
Oil and Grease	<1.0	<1.0	mg/L	1.0
рН	5.02	5.04	-	-

Similarly, using a relative percent difference assessment between the duplicate sample and the original field samples, all three duplicate samples are considered reliable (Table 3-3).

Table 3-3: Duplicate Sample Assessments

	Laborator	y Results		Datastian		Dallahla Danilaata
Parameter	Field 1 (Hydro10)	Duplicate 1	Units	Detection Limit	RPD*	Reliable Duplicate? Yes or No**
Total Arsenic	<0.00010	<0.00010	mg/L	0.00010	-	Yes
Total Copper	<0.00050	<0.00050	mg/L	0.00050	-	Yes
Total Lead	<0.000050	<0.000050	mg/L	0.000050	-	Yes
Total Nickel	<0.00050	<0.00050	mg/L	0.00050	-	Yes
Total Zinc	<0.0030	<0.0030	mg/L	0.0030	-	Yes
Total Suspended Solids	<3.0	<3.0	mg/L	3.0	-	Yes
Oil and Grease	<1.0	<1.0	mg/L	1.0	-	Yes
рН	5.73	5.76	-	-	0.522	Yes
Parameter	Field 2 (WQ6)	Duplicate 2	Units	Detection Limit	RPD*	Reliable Duplicate? Yes or No**
Total Arsenic	<0.00010	<0.00010	mg/L	0.00010	-	Yes
Total Copper	<0.00050	<0.00050	mg/L	0.00050	-	Yes
Total Lead	<0.000050	<0.000050	mg/L	0.000050	-	Yes
Total Nickel	<0.00050	<0.00050	mg/L	0.00050	-	Yes
Total Zinc	<0.0030	<0.0030	mg/L	0.0030	-	Yes
Total Suspended Solids	<3.0	<3.0	mg/L	3.0	-	Yes
Oil and Grease	<1.0	<1.0	mg/L	1.0	-	Yes
рН	5.52	5.42	-	-	1.83	Yes
Parameter	Field 3 (WQ12)	Duplicate 3	Units	Detection Limit	RPD*	Reliable Duplicate? Yes or No**
Total Arsenic	<0.00010	<0.00010	mg/L	0.00010	-	Yes
Total Copper	<0.00050	<0.00050	mg/L	0.00050	-	Yes
Total Lead	<0.000050	<0.000050	mg/L	0.000050	-	Yes
Total Nickel	<0.00050	<0.00050	mg/L	0.00050	-	Yes
Total Zinc	<0.0030	<0.0030	mg/L	0.0030	-	Yes
Total Suspended Solids	<3.0	<3.0	mg/L	3.0	-	Yes
Oil and Grease	<1.0	<1.0	mg/L	1.0	-	Yes
рН	5.94	5.95	-	-	0.168	Yes

^{*} RPD = Relative Percent Difference where RPD(%) = 200 x ABS(x - y)/(x + y), where ABS = Absolute difference, x = the analytical result of the original sample, y = the analytical result of the blind field duplicate sample.

4.0 CONCLUSION

The sampling methods employed were reliable and represent existing water quality conditions inside the CH-06 trench. Water quality in the CH-06 trench are well below Peregrine's Water Licence effluent quality criteria.

^{**} Duplicate samples are considered reliable when their RPD is less than 20%, or both samples are below the laboratory detection limit.

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6.0 CLOSURE

We trust this letter report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted, Tetra Tech EBA Inc.

Prepared by:

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Reviewed by:

Richard Hoos, M.Sc., R.P.Bio.
Principal Consultant, Mining Practice

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Attachments: Map (1)

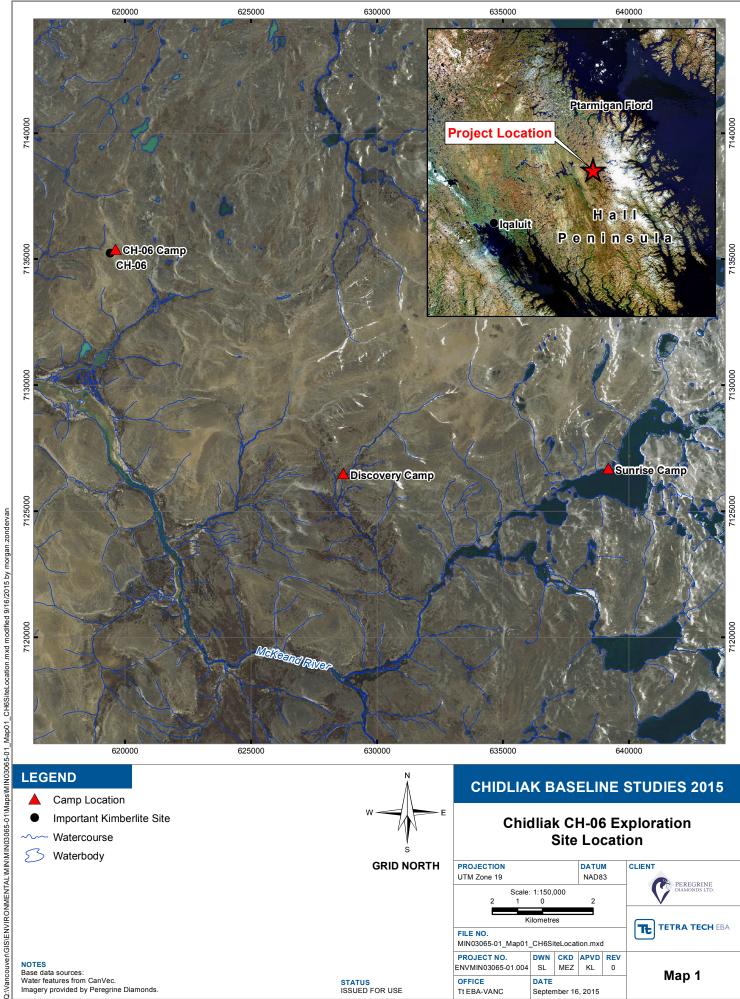
Appendix A – Tetra Tech EBA's General Conditions

Appendix B – Laboratory Analytical Results



Map 1 Chidliak CH-06 Exploration Site Location





Important Kimberlite Site

Watercourse

Waterbody



GRID NORTH

Chidliak CH-06 Exploration Site Location

PROJECTION			DATU	VI	CLIENT
UTM Zone 19			NAD8	3	n nenn ann ur
Scale:	1:150,0	000	2		PEREGRINE DIAMONDS LTD.
FILE NO. MIN03065-01 Map01	ilometre		tion myd		TETRA TECH EBA
	_		_		
PROJECT NO. ENVMIN03065-01.004	DWN SL	MEZ			Man 4
OFFICE Tt FRA-VANC	DATE	nher 16	2015		Map 1

NOTES

Base data sources: Water features from CanVec. Imagery provided by Peregrine Diamonds.

STATUS ISSUED FOR USE

APPENDIX A

TETRA TECH EBA'S GENERAL CONDITIONS



GENERAL CONDITIONS

GEOENVIRONMENTAL REPORT

This report incorporates and is subject to these "General Conditions".

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APPENDIX B LABORATORY ANALYTICAL RESULTS





201 - 4916 49 Street Yellowknife NT X1A 3X4

Tetra Tech EBA Inc. Date Received: 19-AUG-15

ATTN: Karla Langlois Report Date: 02-SEP-15 13:34 (MT)

Version: FINAL REV. 2

Client Phone: 867-920-2287

Certificate of Analysis

Lab Work Order #: L1660034
Project P.O. #: NOT SUBMITTED
Job Reference: ENVMIN03065

C of C Numbers: Legal Site Desc:

Comments: 2-SEP-2015 Revised Report - L1640034-13 Oil & Grease

Rick Zo kiewski General Manager

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ADDRESS: 75 Con Road, PO. Box 2801, Yellowknife, NT, X1A 2R2 Canada | Phone: +1 867 873 5593 | Fax: +1 867 920 4238 ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company



L1660034 CONTD.... PAGE 2 of 17

02-SEP-15 13:34 (MT)

Version: FINAL REV. 2

	Sample ID Description Sampled Date Sampled Time Client ID	L1660034-1 WATER 17-AUG-15 FIELD BLANK	L1660034-2 WATER 29-JUL-15 15:30 TRIP BLANK	L1660034-3 WATER 16-AUG-15 WQ3	L1660034-4 WATER 16-AUG-15 WQ4	L1660034-5 WATER 16-AUG-15 WQ5
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	<0.13	<0.13	0.58	1.17	1.15
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	<3.0	<3.0
	Turbidity (NTU)	0.25	<0.10	0.33	0.47	0.56
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Ammonia, Total (as N) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Bicarbonate (HCO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Carbonate (CO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Conductivity (EC) (uS/cm)	1.38	1.33	4.28	6.08	6.02
	Hydroxide (OH) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Nitrate and Nitrite (as N) (mg/L)	<0.022	<0.022	<0.022	0.025	<0.022
	Nitrate (as N) (mg/L)	<0.020	<0.020	<0.020	0.025	<0.020
	Nitrite (as N) (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Total Kjeldahl Nitrogen (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Total Nitrogen (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	pH (pH)	5.04	5.02	5.16	5.63	5.58
	Phosphorus (P)-Total (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0030	<0.0030	0.0077	0.0187	0.0223
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Barium (Ba)-Total (mg/L)	<0.000050	<0.000050	0.000482	0.00120	0.00124
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	<0.000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Calcium (Ca)-Total (mg/L)	<0.050	<0.050	0.136	0.260	0.261
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	<0.010	<0.010	<0.010	0.015	0.015
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Magnesium (Mg)-Total (mg/L)	<0.0050	<0.0050	0.0581	0.125	0.121
	Manganese (Mn)-Total (mg/L)	<0.00010	<0.00010	0.00174	0.00180	0.00157
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	<0.00050	0.00064	0.00074

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

L1660034 CONTD.... PAGE 3 of 17

02-SEP-15 13:34 (MT)

Version: FINAL REV. 2

	Sampled Date Sampled Time Client ID	WATER 16-AUG-15 WQ6	WATER 17-AUG-15 WQ7	WATER 15-AUG-15 WQ8	WATER 15-AUG-15 HYDRO 9	WATER 15-AUG-15 HYDRO 10
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	0.75	0.89	1.38	1.18	1.29
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	<3.0	<3.0
	Turbidity (NTU)	0.66	0.32	0.83	2.05	0.44
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Ammonia, Total (as N) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Bicarbonate (HCO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Carbonate (CO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Conductivity (EC) (uS/cm)	4.52	4.94	7.18	7.63	9.38
	Hydroxide (OH) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Nitrate and Nitrite (as N) (mg/L)	<0.022	<0.022	0.044	0.288	0.231
	Nitrate (as N) (mg/L)	<0.020	<0.020	0.044	0.288	0.231
	Nitrite (as N) (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Total Kjeldahl Nitrogen (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Total Nitrogen (mg/L)	<0.20	<0.20	<0.20	0.29	0.23
	pH (pH)	5.52	5.63	5.69	5.54	5.73
	Phosphorus (P)-Total (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0
Total Metals	Aluminum (Al)-Total (mg/L)	0.0097	0.0099	0.0329	0.0777	0.0184
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Barium (Ba)-Total (mg/L)	0.000723	0.000949	0.00280	0.00299	0.00311
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	<0.000050	<0.000050	<0.0000050	0.0000083	<0.0000050
	Calcium (Ca)-Total (mg/L)	0.171	0.207	0.278	0.220	0.264
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	<0.00010	0.00017	<0.00010
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	<0.010	<0.010	0.027	0.068	<0.010
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Magnesium (Mg)-Total (mg/L)	0.0788	0.0915	0.166	0.153	0.155
	Manganese (Mn)-Total (mg/L)	0.00043	0.00081	0.00070	0.00096	0.00041
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050

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

PAGE 4 of 17 02-SEP-15 13:34 (MT)

Version: FINAL REV. 2

	Sample ID Description Sampled Date Sampled Time Client ID	L1660034-11 WATER 17-AUG-15 WQ12	L1660034-12 WATER 16-AUG-15 WQ13	L1660034-13 WATER 15-AUG-15 WQ15	L1660034-14 WATER 15-AUG-15 WQ16	L1660034-15 WATER 15-AUG-15 WQ17
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	1.64	1.27	1.36	1.21	1.90
	Total Suspended Solids (mg/L)	<3.0	<3.0	8.7	<3.0	<3.0
	Turbidity (NTU)	0.77	0.91	3.05	0.56	3.25
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Ammonia, Total (as N) (mg/L)	<0.050	0.116	<0.050	<0.050	<0.050
	Bicarbonate (HCO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Carbonate (CO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Conductivity (EC) (uS/cm)	9.25	7.49	8.90	7.04	9.37
	Hydroxide (OH) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Nitrate and Nitrite (as N) (mg/L)	0.290	0.117	0.205	0.070	0.288
	Nitrate (as N) (mg/L)	0.290	0.117	0.205	0.070	0.288
	Nitrite (as N) (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Total Kjeldahl Nitrogen (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Total Nitrogen (mg/L)	0.29	<0.20	0.21	<0.20	0.29
	pH (pH)	5.94	6.20	5.23	5.28	6.00
	Phosphorus (P)-Total (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0
Total Metals	Aluminum (Al)-Total (mg/L)	0.0328	0.0434	0.0144	0.0136	0.122
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Barium (Ba)-Total (mg/L)	0.00526	0.00207	0.00401	0.00302	0.00661
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	<0.000050	<0.0000050	0.0000107	0.0000090	0.0000059
	Calcium (Ca)-Total (mg/L)	0.331	0.302	0.307	0.232	0.446
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	0.00029
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	0.00058
	Iron (Fe)-Total (mg/L)	0.014	0.030	<0.010	<0.010	0.128
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Magnesium (Mg)-Total (mg/L)	0.197	0.126	0.145	0.153	0.192
	Manganese (Mn)-Total (mg/L)	0.00080	0.00099	0.00131	0.00123	0.00225
	Mercury (Hg)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.0000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	<0.00050	0.00070	<0.00050

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

PAGE 5 of 17 02-SEP-15 13:34 (MT)

Version: FINAL REV. 2

	Sample ID Description Sampled Date Sampled Time Client ID	L1660034-16 WATER 16-AUG-15 WQ18	L1660034-17 WATER 16-AUG-15 WQ19	L1660034-18 WATER 16-AUG-15 WQ20	L1660034-19 WATER 17-AUG-15 WQ21	L1660034-20 WATER 17-AUG-15 WQ22
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	0.83	1.18	1.60	1.47	1.43
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	<3.0	3.7
	Turbidity (NTU)	0.23	0.31	0.75	0.85	2.22
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Ammonia, Total (as N) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Bicarbonate (HCO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Carbonate (CO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Conductivity (EC) (uS/cm)	13.5	5.35	6.65	8.99	7.87
	Hydroxide (OH) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Nitrate and Nitrite (as N) (mg/L)	<0.022	<0.022	<0.022	0.381	0.261
	Nitrate (as N) (mg/L)	<0.020	<0.020	<0.020	0.381	0.261
	Nitrite (as N) (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Total Kjeldahl Nitrogen (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Total Nitrogen (mg/L)	<0.20	<0.20	<0.20	0.38	0.26
	pH (pH)	5.51	5.97	6.23	5.81	6.12
	Phosphorus (P)-Total (mg/L)	<0.020	<0.020	0.027	<0.020	<0.020
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0
Total Metals	Aluminum (Al)-Total (mg/L)	0.0094	0.0112	0.0286	0.0393	0.0731
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Barium (Ba)-Total (mg/L)	0.000929	0.00136	0.00165	0.00310	0.00206
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	<0.000050	<0.0000050	<0.0000050	0.0000060	<0.0000050
	Calcium (Ca)-Total (mg/L)	0.191	0.258	0.333	0.307	0.288
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	0.00024
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	<0.010	0.013	0.035	0.018	0.073
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Magnesium (Mg)-Total (mg/L)	0.0855	0.129	0.187	0.172	0.172
	Manganese (Mn)-Total (mg/L)	0.00105	0.00079	0.00088	0.00068	0.00118
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050

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

L1660034 CONTD.... PAGE 6 of 17

02-SEP-15 13:34 (MT)

ALS ENVIRONMENTAL ANALYTICAL REPORT Version: FINAL REV. 2

	Sample ID Description Sampled Date Sampled Time Client ID	L1660034-21 WATER 17-AUG-15 WQ23	L1660034-22 WATER 17-AUG-15 WQ24	L1660034-23 WATER 16-AUG-15 WQ25	L1660034-24 WATER 16-AUG-15 WQ26	L1660034-25 WATER 17-AUG-15 WQ27
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	2.33	1.32	1.60	0.99	2.31
·	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	<3.0	<3.0
	Turbidity (NTU)	0.90	0.89	0.62	0.40	0.91
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<2.0	2.1	<2.0	2.6
	Ammonia, Total (as N) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Bicarbonate (HCO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Carbonate (CO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Conductivity (EC) (uS/cm)	10.9	9.29	6.74	5.39	10.1
	Hydroxide (OH) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Nitrate and Nitrite (as N) (mg/L)	0.200	0.267	<0.022	<0.022	<0.022
	Nitrate (as N) (mg/L)	0.200	0.267	<0.020	<0.020	<0.020
	Nitrite (as N) (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Total Kjeldahl Nitrogen (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Total Nitrogen (mg/L)	0.20	0.27	<0.20	<0.20	<0.20
	pH (pH)	6.15	5.90	6.25	5.63	6.45
	Phosphorus (P)-Total (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	<1.0	<1.0	<1.0	<1.0	1.3
Total Metals	Aluminum (Al)-Total (mg/L)	0.0487	0.0374	0.0145	0.0226	0.0362
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Barium (Ba)-Total (mg/L)	0.00335	0.00207	0.00239	0.00109	0.00679
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	<0.000050	0.0000059	<0.0000050	<0.0000050	<0.0000050
	Calcium (Ca)-Total (mg/L)	0.526	0.251	0.337	0.220	0.519
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	0.00014	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	0.00064
	Iron (Fe)-Total (mg/L)	0.031	0.021	0.011	<0.010	0.050
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Magnesium (Mg)-Total (mg/L)	0.246	0.169	0.184	0.108	0.246
	Manganese (Mn)-Total (mg/L)	0.00078	0.00042	0.00222	0.00149	0.00117
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	<0.00050	0.00080	<0.00050

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

L1660034 CONTD.... PAGE 7 of 17

02-SEP-15 13:34 (MT)

ALS ENVIRONMENTAL ANALYTICAL REPORT Version: FINAL REV. 2

	Sample ID Description Sampled Date Sampled Time Client ID	L1660034-26 WATER 15-AUG-15 WQ28	L1660034-27 WATER 15-AUG-15 WQ29	L1660034-28 WATER 15-AUG-15 DUPLICATE 1	L1660034-29 WATER 16-AUG-15 DUPLICATE 2	L1660034-30 WATER 17-AUG-15 DUPLICATE 3
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	2.94	0.83	1.34	0.76	1.73
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	<3.0	<3.0
	Turbidity (NTU)	0.33	0.46	0.40	0.51	0.63
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Ammonia, Total (as N) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Bicarbonate (HCO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Carbonate (CO3) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Conductivity (EC) (uS/cm)	12.6	7.09	7.82	4.54	9.30
	Hydroxide (OH) (mg/L)	<5.0	<5.0	<5.0	<5.0	<5.0
	Nitrate and Nitrite (as N) (mg/L)	0.117	0.065	0.228	<0.022	0.285
	Nitrate (as N) (mg/L)	0.117	0.065	0.228	<0.020	0.285
	Nitrite (as N) (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Total Kjeldahl Nitrogen (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Total Nitrogen (mg/L)	<0.20	<0.20	0.23	<0.20	0.29
	pH (pH)	5.82	5.31	5.76	5.42	5.95
	Phosphorus (P)-Total (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0
Total Metals	Aluminum (Al)-Total (mg/L)	0.0080	0.0220	0.0212	0.0109	0.0347
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Barium (Ba)-Total (mg/L)	0.00417	0.00124	0.00306	0.000763	0.00549
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.0000069	<0.0000050	<0.0000050	<0.0000050	0.0000057
	Calcium (Ca)-Total (mg/L)	0.698	0.161	0.278	0.172	0.365
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	<0.010	0.017	<0.010	<0.010	0.018
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Magnesium (Mg)-Total (mg/L)	0.290	0.104	0.158	0.0804	0.199
	Manganese (Mn)-Total (mg/L)	0.00095	0.00196	0.00040	0.00044	0.00080
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Nickel (Ni)-Total (mg/L)	0.00107	0.00055	<0.00050	<0.00050	<0.00050

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

PAGE 8 of 17 02-SEP-15 13:34 (MT) Version: FINAL REV. 2

	Sample ID Description Sampled Date Sampled Time Client ID				
Grouping	Analyte				
WATER			\dagger		
Physical Tests	Hardness (as CaCO3) (mg/L)	11.2			
-	Total Suspended Solids (mg/L)	4.8			
	Turbidity (NTU)	25.5			
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	10.3			
	Ammonia, Total (as N) (mg/L)	<0.050			
	Bicarbonate (HCO3) (mg/L)	12.5			
	Carbonate (CO3) (mg/L)	<5.0			
	Conductivity (EC) (uS/cm)	24.4			
	Hydroxide (OH) (mg/L)	<5.0			
	Nitrate and Nitrite (as N) (mg/L)	<0.022			
	Nitrate (as N) (mg/L)	<0.020			
	Nitrite (as N) (mg/L)	<0.010			
	Total Kjeldahl Nitrogen (mg/L)	<0.20			
	Total Nitrogen (mg/L)	<0.20			
	pH (pH)	7.25			
	Phosphorus (P)-Total (mg/L)	<0.020			
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	1.3			
Total Metals	Aluminum (Al)-Total (mg/L)	1.64			
	Antimony (Sb)-Total (mg/L)	<0.00010			
	Arsenic (As)-Total (mg/L)	0.00018			
	Barium (Ba)-Total (mg/L)	0.00995			
	Beryllium (Be)-Total (mg/L)	<0.00010			
	Boron (B)-Total (mg/L)	<0.010			
	Cadmium (Cd)-Total (mg/L)	<0.000050			
	Calcium (Ca)-Total (mg/L)	1.36			
	Chromium (Cr)-Total (mg/L)	0.00333			
	Cobalt (Co)-Total (mg/L)	0.00069			
	Copper (Cu)-Total (mg/L)	0.00317			
	Iron (Fe)-Total (mg/L)	1.25			
	Lead (Pb)-Total (mg/L)	0.000395			
	Lithium (Li)-Total (mg/L)	<0.0010			
	Magnesium (Mg)-Total (mg/L)	1.90			
	Manganese (Mn)-Total (mg/L)	0.00701			
	Mercury (Hg)-Total (mg/L)	0.0000062			
	Molybdenum (Mo)-Total (mg/L)	0.000297			
	Nickel (Ni)-Total (mg/L)	0.00362			

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

PAGE 9 of 17 02-SEP-15 13:34 (MT)

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L1660034-1 WATER 17-AUG-15 FIELD BLANK	L1660034-2 WATER 29-JUL-15 15:30 TRIP BLANK	L1660034-3 WATER 16-AUG-15 WQ3	L1660034-4 WATER 16-AUG-15 WQ4	L1660034-5 WATER 16-AUG-15 WQ5
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)		<0.050	<0.050	<0.050	0.132	0.123
	Selenium (Se)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		<0.050	<0.050	0.324	0.477	0.465
	Strontium (Sr)-Total (mg/L)		<0.00020	<0.00020	0.00133	0.00235	0.00243
	Thallium (TI)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		<0.00030	<0.00030	0.00043	0.00074	0.00094
	Uranium (U)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Vanadium (V)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Aggregate Organics	Oil and Grease (mg/L)		<1.0	<1.0	<1.0	<1.0	<1.0

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

PAGE 10 of 17 02-SEP-15 13:34 (MT)

02-SEP-15 13:34 (MT) Version: FINAL REV. 2

		Sample ID Description Sampled Date Sampled Time Client ID	L1660034-6 WATER 16-AUG-15 WQ6	L1660034-7 WATER 17-AUG-15 WQ7	L1660034-8 WATER 15-AUG-15 WQ8	L1660034-9 WATER 15-AUG-15 HYDRO 9	L1660034-10 WATER 15-AUG-15 HYDRO 10
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)		0.060	0.076	0.248	0.243	0.184
	Selenium (Se)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.00010	<0.000010
	Sodium (Na)-Total (mg/L)		0.361	0.391	0.528	0.797	0.680
	Strontium (Sr)-Total (mg/L)		0.00147	0.00173	0.00223	0.00246	0.00232
	Thallium (TI)-Total (mg/L)		<0.000010	<0.00010	<0.000010	<0.00010	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		0.00044	0.00036	0.00196	0.00392	0.00062
	Uranium (U)-Total (mg/L)		<0.000010	<0.000010	0.000013	<0.000010	<0.000010
	Vanadium (V)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Organics							

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

PAGE 11 of 17 02-SEP-15 13:34 (MT)

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L1660034-11 WATER 17-AUG-15 WQ12	L1660034-12 WATER 16-AUG-15 WQ13	L1660034-13 WATER 15-AUG-15 WQ15	L1660034-14 WATER 15-AUG-15 WQ16	L1660034-15 WATER 15-AUG-15 WQ17
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)		0.191	0.158	0.234	0.241	0.271
	Selenium (Se)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Silver (Ag)-Total (mg/L)		<0.000010	<0.00010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		0.810	0.794	0.878	0.437	0.997
	Strontium (Sr)-Total (mg/L)		0.00318	0.00276	0.00284	0.00183	0.00384
	Thallium (TI)-Total (mg/L)		<0.000010	<0.00010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		0.00102	0.00152	0.00035	0.00070	0.00933
	Uranium (U)-Total (mg/L)		<0.000010	<0.000010	<0.000010	0.000017	<0.000010
	Vanadium (V)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Aggregate Organics	Oil and Grease (mg/L)		<1.0	<1.0	<1.0	<1.0	<1.0

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

PAGE 12 of 17 02-SEP-15 13:34 (MT)

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L1660034-16 WATER 16-AUG-15 WQ18	L1660034-17 WATER 16-AUG-15 WQ19	L1660034-18 WATER 16-AUG-15 WQ20	L1660034-19 WATER 17-AUG-15 WQ21	L1660034-20 WATER 17-AUG-15 WQ22
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)		0.087	0.127	0.156	0.238	0.204
	Selenium (Se)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Silver (Ag)-Total (mg/L)		<0.000010	<0.00010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		0.401	0.392	0.468	0.770	0.914
	Strontium (Sr)-Total (mg/L)		0.00152	0.00182	0.00226	0.00302	0.00282
	Thallium (TI)-Total (mg/L)		<0.000010	<0.00010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		0.00033	0.00053	0.00129	0.00121	0.00529
	Uranium (U)-Total (mg/L)		<0.000010	<0.00010	<0.000010	<0.000010	<0.000010
	Vanadium (V)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Aggregate Organics	Oil and Grease (mg/L)		<1.0	<1.0	<1.0	<1.0	<1.0

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

PAGE 13 of 17 02-SEP-15 13:34 (MT)

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L1660034-21 WATER 17-AUG-15 WQ23	L1660034-22 WATER 17-AUG-15 WQ24	L1660034-23 WATER 16-AUG-15 WQ25	L1660034-24 WATER 16-AUG-15 WQ26	L1660034-25 WATER 17-AUG-15 WQ27
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)		0.273	0.198	0.175	0.094	0.235
	Selenium (Se)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		0.670	0.588	0.429	0.401	0.786
	Strontium (Sr)-Total (mg/L)		0.00311	0.00239	0.00232	0.00177	0.00407
	Thallium (TI)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		0.00223	0.00144	0.00054	0.00053	0.00197
	Uranium (U)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Vanadium (V)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Aggregate Organics	Oil and Grease (mg/L)		<1.0	<1.0	<1.0	<1.0	<1.0

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

PAGE 14 of 17 02-SEP-15 13:34 (MT)

Version: FINAL REV. 2

		Sample ID Description Sampled Date Sampled Time Client ID	L1660034-26 WATER 15-AUG-15 WQ28	L1660034-27 WATER 15-AUG-15 WQ29	L1660034-28 WATER 15-AUG-15 DUPLICATE 1	L1660034-29 WATER 16-AUG-15 DUPLICATE 2	L1660034-30 WATER 17-AUG-15 DUPLICATE 3
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)		0.269	0.158	0.183	0.064	0.197
	Selenium (Se)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		0.642	0.467	0.674	0.364	0.822
	Strontium (Sr)-Total (mg/L)		0.00454	0.00137	0.00247	0.00150	0.00347
	Thallium (TI)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		<0.00030	0.00091	0.00066	0.00045	0.00107
	Uranium (U)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Vanadium (V)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Organics							

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

PAGE 15 of 17 02-SEP-15 13:34 (MT) Version: FINAL REV. 2

ALS ENVIRONMENTAL ANALYTICAL REPORT

L1660034-31 Sample ID WATER Description 17-AUG-15 Sampled Date Sampled Time CH6 TRENCH Client ID Grouping **Analyte WATER Total Metals** Potassium (K)-Total (mg/L) 0.867 Selenium (Se)-Total (mg/L) 0.000067 Silver (Ag)-Total (mg/L) 0.000011 Sodium (Na)-Total (mg/L) 1.31 Strontium (Sr)-Total (mg/L) 0.0121 Thallium (TI)-Total (mg/L) 0.000024 Tin (Sn)-Total (mg/L) <0.00010 Titanium (Ti)-Total (mg/L) 0.100 Uranium (U)-Total (mg/L) 0.000045 Vanadium (V)-Total (mg/L) 0.00369 Zinc (Zn)-Total (mg/L) 0.0044 Oil and Grease (mg/L) Aggregate <1.0 **Organics**

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

L1660034 CONTD.... PAGE 16 of 17

02-SEP-15 13:34 (MT)

Version: FINAL REV. 2

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Total Suspended Solids	DLA	L1660034-10, -13, -14, -15, -26, -27, -28, -8, -9
Duplicate	Total Suspended Solids	DLA	L1660034-1, -11, -12, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -29, -3, -30, -31, -4, -5, -6, -7
Matrix Spike	Phosphorus (P)-Total	MS-B	L1660034-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
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**
C-TOT-ORG-ED	Water	Total Organic Carbon	APHA 5310 B-Instrumental

This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

ETL-HARDNESS-TOT-ED Water Hardness (from Total Ca and Mg) APHA 2340 B-Calculation **HG-T-CVAA-ED** Water Total Mercury in Water by CVAAS EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-T-CCMS-ED 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.

N-T-CALC-ED Water Total Nitrogen (Calculation) APHA 4500 N-Calculated

Total Nitrogen is a calculated parameter. Total Nitrogen = Total Kjeldahl Nitrogen + [Nitrate and Nitrite (as N)]

NH3-CFA-ED Water Ammonia in Water by Colour APHA 4500 NH3-NITROGEN (AMMONIA)

This analysis is carried out using procedures adapted from APHA Method 4500 NH3 "NITROGEN (AMMONIA)". Ammonia is determined using the automated phenate colourimetric method.

NO2+NO3-CALC-EDWaterNitrate+NitriteCALCULATIONNO2-IC-N-EDWaterNitrite in Water by ICEPA 300.1 (mod)

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

NO3-IC-N-ED Water Nitrate in Water by IC EPA 300.1 (mod)

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

OGG-LLE-ED Water Oil and Grease-Gra APHA 5520 B HEXANE MTBE EXT. GRAVIME

P-T-COL-ED Water Total P in Water by Colour APHA 4500-P PHOSPHORUS

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorus is determined colourimetrically after persulphate digestion of the sample.

PH/EC/ALK-ED Water pH, Conductivity and Total Alkalinity APHA 4500-H, 2510, 2320

All samples analyzed by this method for pH will have exceeded the 15 minute recommended hold time from time of sampling (field analysis is recommended for pH where highly accurate results are needed)

SOLIDS-TOTSUS-ED Water Total Suspended Solids APHA 2540 D-Gravimetric

Gravimetric determination of solids in waters by filtration and drying filter at 104 degrees Celsius.

TKN-CFA-ED Water TKN in Water by Colour APHA 4500-NORG (TKN)

This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total Kjeldahl Nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.

Reference Information

L1660034 CONTD.... PAGE 17 of 17 02-SEP-15 13:34 (MT)

Version: FINAL REV. 2

TURBIDITY-ED Water Turbidity APHA 2130 B-Nephelometer

** 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

ED ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

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

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



Chain of Custody (COC) / Analytical Request Form

Affix ALS barcode label here (lab use only)

COC Number: 14 -

Page ___of 3__

Canada Toll Free: 1 800 668 9878

	www.aisglobal.com		And the second second															
Report To				Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)														
Company:	Tetra Tech EBA In.c		Select Report	Format: PDF	☑ EXCEL [EDD (DIGITAL)	R	✓ Re	gular (S	tandard	TAT if	received by	3 pm - busin	ess days)				
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Phone:	867-920-2287		Email 1 or Fax	karla.langlois@tet	ratech.com		Spec	ify Da	e Req	uired f	or E2,	E or P:						
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Company:	Peregrine Diamonds Ltd.		Email 1 or Fax	dave@pdiam.com													\neg	
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Page 2 of 3

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Drinking Water (DW) Samples¹ (cl Are samples taken from a Regulated DW Sy	Drinking Water Drinking Water Are samples taken from ☐ Yes Are samples for human	Drinking Water Are samples taken from	Drinking Water	Drinking Water		WQ23	WQ22	WQ21	WQ20	WQ19	WQ18	WQ17	WQ16	WQ15	WQ13	WQ12	Hydre-1:	ALS Sample # (lab use only)	ALS Lab Work Order #	LSD: Chidliak	PO / AFE:	Job #: ENVN	ALS Quote #: Q52253		Contact: David Willis	Company: Pereg	Сору	Invoice To Same		Priorie: 867-9		Address: PO Bo	Contact: Karla	Company: Tetra	Report To
CHIDNENT DELEVEE (Signature)	¬ No	drinking water use?	¬ No	Are samples taken from a Regulated DW System?	Drinking Water (DW) Samples ¹ (client use)												#	Sample Identification and/or Coordinates (This description will appear on the report)	(lab use	ik.		ENVMIN03065	33	Project Information	Willis	Peregrine Diamonds Ltd.	Copy of Invoice with Report	Same as Report To		867-920-2287	Yellowknife, NT X1A 2P7	PO Box 2244, 4916-49 Street	Karla Langlois	Tetra Tech EBA In.c	
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Page 3 of

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(lab use only) Job #: Contact: Report To Are samples for human drinking water use? Are samples taken from a Regulated DW System? PO / AFE: ALS Quote #: Contact: Address: Released by: LSD: Invoice To Phone: Company: company ALS Lab Work Order # (lab use only) Drinking Water (DW) Samples¹ (client use) Yes Q52253 WQ29 WQ28 WQ27 WQ26 WQ25 David Willis Peregrine Diamonds Ltd. Same as Report To Karla Langlois CH6 Outflow CH6 Trench WQ24 Chidliak ENVMIN03065 Copy of Invoice with Report 867-920-2287 Yellowknife, NT X1A 2P7 PO Box 2244, 4916-49 Street Tetra Tech EBA In.c Duplicate 3 Duplicate 2 Duplicate 1 SHIPMENT RELEASE (client use) Project Information Sample Identification and/or Coordinates (This description will appear on the report) Date: □ Yes Yes 0000 Time: V N 3 Ş 7 Special Instructions / Specify Criteria to add on report (client Use) Received by: ALS Contact Email 1 or Fax dave@pdiam.com GL Account: Email 2 Select Invoice Distribution: Email 1 or Fax karla.langlois@tetratech.com Quality Control (QC) Report with Report Select Report Format: Activity Code: Approver ID: Email 2 Select Distribution: Criteria on Report - provide details below if box checked INITIAL SHIPMENT RECEPTION (lab use only) Oil and Gas Required Fields (client use) MARITI 17/Aug 115 110/Aug 115 15/Aug/15 16/Aug 115 17/Aug/15 (dd-mmm-yy) Report Format / Distribution AUX Date Invoice Distribution ✓ PDF ☑ EMAIL 115 IN EMAIL Sampler: Routing Code: **₩** EXCEL (hh:mm) MAIL Time MAIL √ Yes EDD (DIGITAL) i ime: FAX 7 10:30 Sample Type FAX Water 7 No Received by: Mus 6 Cooling Initiated ice packs Frozen D D R D D æ B B B B D D Total Metals Specify Date Required for E2,E or P: INITIAL COOLER TEMPERAT Ъ Same day or weekend emergency - contact ALS to confirm TAT and surcharge Regular (Standard TAT if received by 3 pm - business days) ☐ Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT D B B D D B D D D D D B Mercury Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests) Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below b D B B B B D D R D D NUT/TOC D SAMPLE CONDITION AS RECEIVED (lab use only) D þ D D D D D D B D D FINAL SHIPMENT RECEPTION (lab use only) R Oil and Grease o D þ B B R æ B B B D R B Routine JRES °C Analysis Request Custody seal intact SIF Observations FINAL COOLER TEMPERATURES °C L1660034-COFC Yes Yes No No G 0 5 5 S ch CI O S Ch G O Number of Containers

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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 WHITE - LABORATORY COPY YELLOW - CLIENT COPY