TECHNICAL MEMORANDUM

DATE April 7, 2015 **PROJECT No.** 1407256-7042-40

TO Richard Bargery, Eric Denholm
Dominion Diamond Ekati Corp.

CC Kristine Mason, Steve Strawson

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2014 FISH TISSUE CHEMISTRY MEMORANDUM

1.0 INTRODUCTION AND OBJECTIVES

Dominion Diamond Ekati Corporation (Dominion Diamond) contracted Golder Associates Ltd. (Golder) to conduct a 2014 fish tissue chemistry field investigation to supplement the available fish tissue data for the Jay Project (Project). Based on the timing of the field work and analytical reports, the data were not collected in time for inclusion in the Developer's Assessment Report (DAR).

The objectives of the aquatic health field investigation were to:

- collect Lake Trout (*Salvelinus namaycush*) muscle and liver tissue samples from both Lac du Sauvage and Ursula Lake; and,
- analyze muscle and liver samples for total metals[1] including mercury, and methyl mercury.

In addition, a water quality sample was collected from Ursula Lake and analyzed for total metals and standard water quality parameters. The following technical memorandum presents a description of field and laboratory methods, and summary of results.

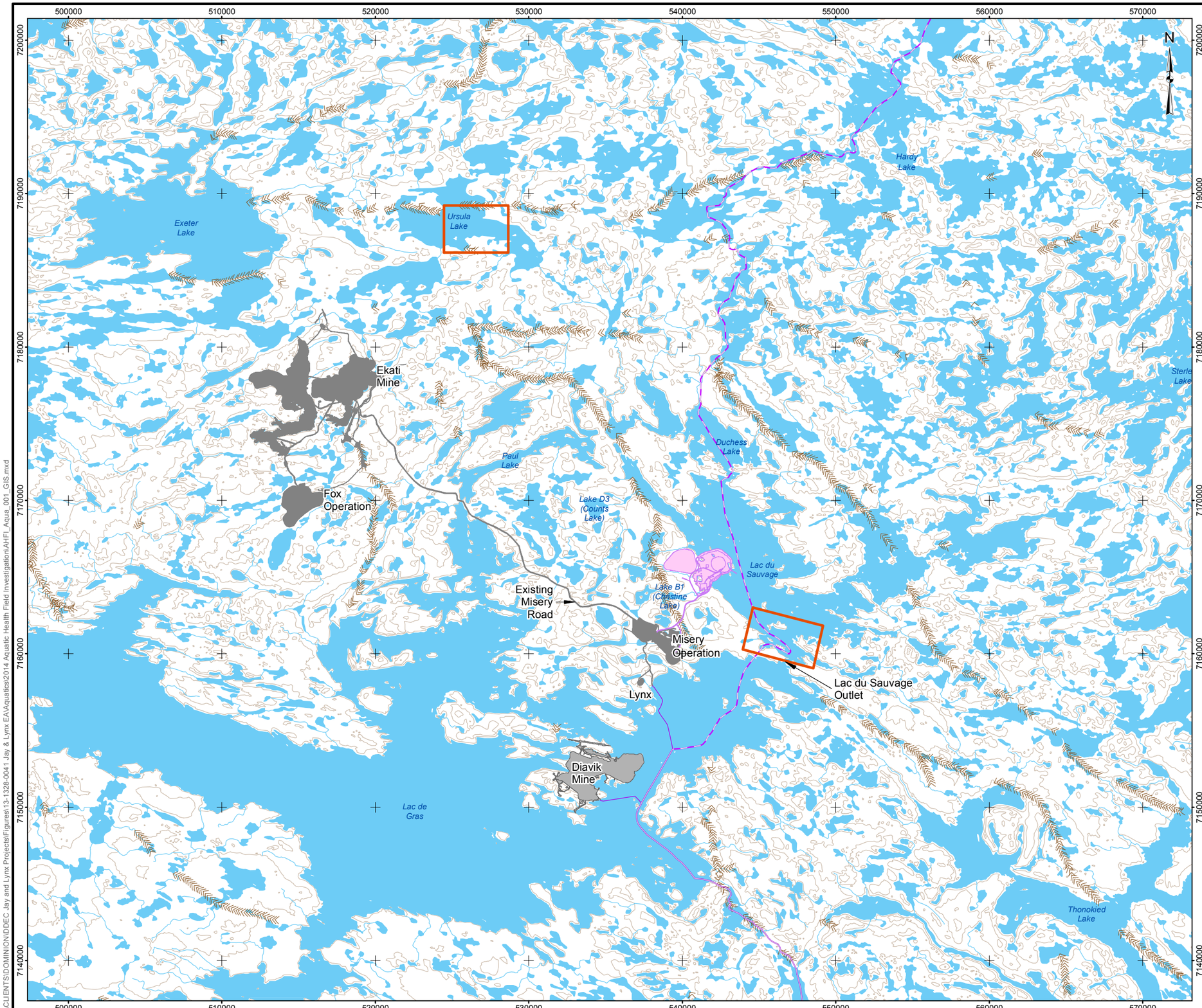
2.0 METHODS

Methods and results for the water quality sampling are provided in Appendix A.

Fish Sample Collection

Fish collection for tissue chemistry was conducted between August 19 and 27, 2014, in Lac du Sauvage near the outlet and Ursula Lake (Map 1). Ursula Lake is located north of the existing Ekati Mine site, outside of the Lac du Sauvage and Lac de Gras catchment, and was previously sampled to determine whether it could be used as a reference lake for Ekati Mine aquatic effects monitoring programs (AEMPs). Up to 20 Lake Trout from both Lac du Sauvage and Ursula Lake were targeted by gill netting and angling; however, only 18 Lake Trout from Lac du Sauvage and 5 Lake Trout from Ursula Lake were caught.

[1] For the purposes of this document, the term total metals include metalloids such as arsenic. and non-metals such as selenium.



LEGEND

- EKATI MINE FOOTPRINT
- DIAVIK MINE FOOTPRINT
- PROPOSED JAY FOOTPRINT
- WINTER ROAD
- TIBBITT TO CONTWOYTO WINTER ROAD
- NORTHERN PORTION OF TIBBITT TO CONTWOYTO WINTER ROAD
- ELEVATION CONTOUR (20 m INTERVAL)
- ESKER
- WATERCOURSE
- WATERBODY
- 2014 FISHING EFFORT LOCATIONS

REFERENCE

NATIONAL TOPOGRAPHIC BASE DATA (NTDB) 1:250,000
CANVEC © NATURAL RESOURCES CANADA, 2012
NATURAL RESOURCES CANADA, CENTRE FOR TOPOGRAPHIC INFORMATION, 2012
DATUM: NAD83 PROJECTION: UTM ZONE 12N

DOCUMENT

2014 AQUATIC HEALTH FIELD INVESTIGATION

5 0 5
SCALE 1:250,000 KILOMETRES

PROJECT
DOMINION DIAMOND™
JAY PROJECT
NORTHWEST TERRITORIES, CANADA

TITLE
FISH COLLECTION LOCATIONS, LAC DU SAUVAGE AND URSULA LAKE, 2014

Golder Associates

PROJECT		1407256	FILE No. AHFI_Aqua_001_GIS	
DESIGN	BH	04/12/14	SCALE AS SHOWN	REV 0
GIS	AK/LS	07/04/15	MAP 1	
CHECK	KM	07/04/15		
REVIEW	KM	07/04/15		

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A lethal fish health assessment (i.e., internal and external examination) was completed on each fish captured prior to tissue sampling, and included the measurement of fish length, weight, and sex. In addition to the muscle and liver tissue sampling, sagittal otoliths were removed for determination of fish age.

Each tissue sample consisted of a minimum of 25 grams (g) wet weight of muscle tissue to provide sufficient material for analyses. Fillets were removed from the left side of the fish between the dorsal fin and the lateral line, while bone and skin were removed from fillets. Duplicate samples were collected from each fish, allowing one sample to be analyzed and one sample archived.

A unique code was assigned to each fish collected for tissue chemistry analysis following the format below:

- 14-LDS-LKTR-1-M = Lake Trout #1 from Lac du Sauvage - muscle tissue;
- 14-LDS-LKTR-1-L = Lake Trout #1 from Lac du Sauvage - liver tissue;
- 14-URS-LKTR-1-M= Lake Trout #1 from Ursula Lake - muscle tissue; and,
- 14-URS-LKTR-1-L = Lake Trout #1 from Ursula Lake - liver tissue.

Special care was taken to minimize the chance of contaminating samples for metals analysis. During dissection, fish tissue samples were dissected on a plastic cutting board covered with a wax paper sheet which was changed after each individual fish. The sample was placed in a labelled plastic bag. The cutting board and dissecting equipment were cleaned with deionized water between each fish sampling. Data were recorded on a Fish Examination Form and in a field notebook.

Fillet and liver samples were frozen prior to submission to the analytical laboratory. Tissue samples were shipped on ice in sealed, labelled coolers to ALS Canada Ltd. (ALS) in Yellowknife, Northwest Territories for the analyses of moisture content and the following metals:

- aluminum, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, calcium, cesium, chromium, cobalt, copper, iron, lead, lithium, magnesium, manganese, mercury, methyl mercury, molybdenum, nickel, phosphorus, potassium, rubidium, selenium, sodium, strontium, tellurium, thallium, tin, uranium, vanadium, zinc and zirconium.

Sagittal otoliths were removed using forceps, placed on clean wax paper sheets, and stored in individually labeled envelopes. Sagittal otoliths were shipped on ice to North/South Consultants Inc. in Winnipeg, Manitoba for fish aging analysis.

Fish Data Analysis

Summary statistics, including minimum, maximum and mean concentrations, were calculated for each metal. Where values were below the laboratory detection limit, values were set to the detection limit to calculate summary statistics. As mercury and methyl mercury concentrations in fish are often dependent on the size and age of fish, the concentrations in muscle and liver samples of lake trout collected in 2014 were plotted against age, weight and length (Appendix B). Mercury concentrations in muscle tissue were compared to the Canadian Food Inspection Agency (CFIA) human consumption standard for mercury in fish tissue (0.5 milligrams per kilogram wet weight [mg/kg ww]; CFIA 2014) and Canadian Council of Ministers of the Environment Tissue Residue Quality Guidelines (TRQGs) for the Protection of Wildlife Consumer of Aquatic Biota for methyl mercury (0.033 mg/kg ww; CCME 2014a). Arsenic and lead concentrations in muscle tissue were compared to the CFIA (2014) human consumption standards for arsenic and lead in fish (3.5 mg/kg ww for arsenic and 0.5 mg/kg ww for lead).

3.0 RESULTS

The analytical laboratory reports with the results for individual fish tissue samples and for quality control samples are provided in Appendix C. Tables containing individual fish chemistry data for each sample are provided in Appendix D.

Fish Tissue Chemistry

Ten of the 35 metals measured in the muscle tissue of Lake Trout captured from Lac du Sauvage were below the analytical detection limits in all of the samples that were analyzed (i.e., beryllium, bismuth, boron, cadmium, lithium, nickel, tellurium, tin, vanadium, and zirconium) (Table 1). Six of the 35 metals measured in the liver tissue of Lake Trout captured from Lac du Sauvage were below the analytical detection limits in all of the samples that were analyzed (i.e., beryllium, boron, lithium, tellurium, tin and zirconium) (Table 1).

Thirteen of the 35 metals measured in the muscle tissue of Lake Trout captured from Ursula Lake were below the analytical detection limits in all of the samples that were analyzed (i.e., antimony, beryllium, bismuth, boron, cadmium, lithium, molybdenum, nickel, tellurium, tin, uranium, vanadium, and zirconium) (Table 1). Four of the 35 metals measured in the liver tissue of Lake Trout captured from Ursula Lake were below the analytical detection limits in all of the samples that were analyzed (i.e., beryllium, boron, lithium, and zirconium) (Table 1).

Mercury concentrations in muscle and liver tissue of Lake Trout captured in Lac du Sauvage ranged from 0.120 to 0.586 mg/kg ww and from 0.0876 to 0.779 mg/kg ww, respectively (Table 1). Methyl mercury concentrations in muscle and liver tissue of Lake Trout captured in Lac du Sauvage ranged from 0.012 to 0.109 mg/kg ww and from 0.0429 to 0.163 mg/kg ww, respectively (Table 1). The maximum total mercury concentration in muscle tissue exceeded the CFIA (2014) standard for human consumption (0.5 mg/kg ww), while the mean concentration did not. The maximum methyl mercury concentration in muscle tissue samples exceeded the CCME (2014a) TRQG (0.033 mg/kg ww), while the mean concentration did not (Table 2).

Mercury concentrations in muscle and liver tissue of Lake Trout captured in Ursula Lake ranged from 0.0695 to 0.439 mg/kg ww and from 0.0684 to 1.290 mg/kg ww, respectively (Table 1). Methyl mercury concentrations in muscle and liver tissue of Lake Trout captured in Ursula Lake ranged from 0.0288 to 0.280 mg/kg ww and from 0.0139 to 0.210 mg/kg ww, respectively (Table 1). Total mercury concentrations in muscle tissue did not exceed the CFIA (2014) standard for human consumption (0.5 mg/kg ww). Mean and maximum methyl mercury concentrations in muscle tissue samples exceeded the CCME (2014a) TRQG (0.033 mg/kg ww; Table 3).

In general, longer, heavier, older fish captured in Ursula Lake had higher mercury and methyl mercury concentrations (Table 3 and Appendix B; Figures B-1 to B-12). A similar trend was not observed in Lake Trout captured in Lac du Sauvage (Table 2 and Appendix B; Figures B-13 to B-24). In general, mercury and methyl mercury concentrations in Lake Trout from Lac du Sauvage appeared to be less dependent on the length, weight, and age of fish, when compared to fish from Ursula Lake.

Concentrations of arsenic and lead did not exceed the CFIA (2014) human consumption standard for arsenic or lead in fish products (Table 1). In general, metal concentrations in fish tissue from Lac du Sauvage and Ursula Lake appear to be typical for lakes in the area (Annex XIV, Appendix A of the DAR), and similar to concentrations in Lake Trout collected from East Lake for the Gahcho Kué Project (Golder 2013).

Table 1: Summary of Metal Concentrations in Lake Trout Muscle and Liver Tissue, Lac du Sauvage and Ursula Lake, 2014

Parameter	Units	Detection Limit[a]	Lac du Sauvage								Ursula Lake							
			Muscle (n = 18)				Liver (n = 18)				Muscle (n = 15)				Liver (n = 5)			
			% Detected	Min	Max	Mean[b]	% Detected	Min	Max	Mean[b]	% Detected	Min	Max	Mean [b]	% Detected	Min	Max	Mean[b]
Physical Tests																		
% Moisture	%	0.10	100	68.5	77.5	74.1	100	52.7	76.9	67.1	100	74.6	79.4	76.3	100	66.9	75.4	71.5
Total Metals																		
Aluminum	mg/kg ww	0.40 to 1.0	61	<0.40	3.33	0.82	78	<0.40	7.05	1.66	100	0.90	2.26	1.65	60	1.0	11.2	5.1
Antimony	mg/kg ww	0.0020	6	<0.0020	0.0044	<0.0020	11	<0.0020	0.0030	0.0021	0	<0.0020	<0.0020	<0.0020	60	<0.0020	0.0102	<0.0020
Arsenic	mg/kg ww	0.0040 to 0.0060	100	0.0118	0.0742	0.0333	100	0.0118	0.164	0.060	100	0.0056	0.0491	0.0180	100	0.0069	0.0402	0.0189
Barium	mg/kg ww	0.010	39	<0.010	0.022	<0.010	94	<0.010	0.075	0.032	80	<0.010	0.048	0.027	100	0.017	0.101	0.045
Beryllium	mg/kg ww	0.0020	0	<0.0020	<0.0020	<0.0020	0	<0.0020	<0.0020	<0.0020	0	<0.0020	<0.0020	<0.0020	0	<0.0020	<0.0020	<0.0020
Bismuth	mg/kg ww	0.0020	0	<0.0020	<0.0020	<0.0020	33	<0.0020	0.0028	<0.0020	0	<0.0020	<0.0020	<0.0020	80	<0.0020	0.0047	0.0033
Boron	mg/kg ww	0.20	0	<0.20	<0.20	<0.20	0	<0.20	<0.20	<0.20	0	< 0.20	<0.20	<0.20	0	<0.20	<0.20	<0.20
Cadmium	mg/kg ww	0.0010 to 0.0020	0	<0.0010	<0.0010	<0.0010	100	0.0410	0.233	0.0974	0	<0.0010	<0.0010	<0.0010	100	0.155	1.12	0.677
Calcium	mg/kg ww	4.0	100	70.2	240	138	100	123	563	268	100	61.6	118	91.6	100	90.7	1,030	338
Cesium	mg/kg ww	0.0010	100	0.0525	0.108	0.069	100	0.0192	0.0691	0.0379	100	0.0589	0.306	0.194	100	0.0389	0.220	0.128
Chromium	mg/kg ww	0.010 to 0.040	11	<0.010	0.028	<0.010	61	0.010	0.149	0.041	60	<0.010	0.030	0.016	60	0.040	0.136	0.060
Cobalt	mg/kg ww	0.0040	22	<0.0040	0.0065	<0.0040	100	0.0338	0.246	0.083	100	0.0089	0.0467	0.0249	100	0.179	0.610	0.324
Copper	mg/kg ww	0.020 to 0.040	100	0.193	0.393	0.283	100	2.48	46.3	23.8	100	0.138	0.326	0.231	100	10.8	38.2	27.2
Iron	mg/kg ww	0.60 to 1.0	100	1.54	6.29	3.16	100	18.1	880	158	100	2.81	5.16	4.00	100	298	2,940	1,174
Lead	mg/kg ww	0.0040 to 0.010	72	<0.0040	0.126	0.022	78	<0.0040	0.221	0.027	80	<0.0040	0.0189	0.0094	60	0.010	0.024	0.014
Lithium	mg/kg ww	0.10	0	<0.10	<0.10	<0.10	0	<0.10	<0.10	<0.10	0	<0.10	<0.10	<0.10	0	<0.10	<0.10	<0.10
Magnesium	mg/kg ww	0.40	100	266	337	291	100	136	245	192.6	100	254	304	280	100	185	266	217
Manganese	mg/kg ww	0.010	100	0.101	0.301	0.146	100	1.18	2.59	1.87	100	0.108	0.154	0.130	100	1.62	2.42	2.04
Mercury	mg/kg ww	0.0010 to 0.013	100	0.120	0.586	0.212	100	0.0876	0.779	0.261	100	0.0695	0.439	0.196	100	0.0684	1.290	0.350
Methyl Mercury	mg/kg ww	0.0010	100	0.012	0.109	0.032	100	0.0429	0.163	0.082	100	0.0288	0.280	0.096	100	0.0139	0.210	0.083
Molybdenum	mg/kg ww	0.0040 to 0.0080	6	<0.0040	0.0089	<0.0040	100	0.0617	0.237	0.164	0	<0.0040	<0.0040	<0.0040	100	0.134	0.361	0.203
Nickel	mg/kg ww	0.040	0	<0.040	<0.040	<0.040	61	<0.040	0.405	0.068	0	<0.040	<0.040	<0.040	60	<0.040	0.134	0.073
Phosphorus	mg/kg ww	2.0	100	2,320	2,990	2,723	100	2,960	5,000	3,902	100	2,270	2,890	2,616	100	3,500	4,810	4,120
Potassium	mg/kg ww	4.0	100	3,910	4,640	4,417	100	2,230	4,620	3,241	100	3,850	4,800	4,352	100	2,330	3,780	3,190
Rubidium	mg/kg ww	0.010	100	10.1	20.5	15.2	100	9.25	35.1	15.6	100	8.87	18.1	12.5	100	9.70	16.0	11.8
Selenium	mg/kg ww	0.010 to 0.020	100	0.125	0.203	0.159	100	0.562	2.18	1.25	100	0.269	0.406	0.311	100	1.33	5.39	2.84
Sodium	mg/kg ww	4.0	100	214	387	296	100	713	1,530	1,184	100	224	486	303	100	731	1,750	1,234
Strontium	mg/kg ww	0.010 to 0.020	100	0.113	0.422	0.223	100	0.145	0.624	0.319	100	0.080	0.204	0.168	100	0.173	2.00	0.620
Tellurium	mg/kg ww	0.0040	0	<0.0040	<0.0040	<0.0040	0	<0.0040	<0.0040	<.0040	0	<0.0040	<0.0040	<0.0040	20	<0.0040	0.0066	<0.0040
Thallium	mg/kg ww	0.00040	100	0.00446	0.0111	0.0069	100	0.0334	0.233	0.0846	100	0.00546	0.0113	0.0081	100	0.0487	0.212	0.109
Tin	mg/kg ww	0.020	0	<0.020	<0.020	<0.020	0	<0.020	<0.020	<0.020	0	<0.020	<0.020	<0.020	60	<0.020	0.218	0.103
Uranium	mg/kg ww	0.00040	6	<0.00040	0.00071	<0.00040	61	<0.00040	0.00376	0.00096	0	<0.00040	<0.00040	<0.00040	80	<0.00040	0.0101	0.0046
Vanadium	mg/kg ww	0.020	0	<0.020	<0.020	<0.020	11	<0.020	0.026	<0.020	0	<0.020	<0.020	<0.020	40	<0.020	0.091	<0.020
Zinc	mg/kg ww	0.10 to 0.20	100	3.02	5.59	3.83	100	24.0	47.8	38.4	100	3.03	4.37	4.00	100	37.7	47.0	43.2
Zirconium	mg/kg ww	0.040	0	<0.040	<0.040	<0.040	0	<0.040	<0.040	<0.040	0	<0.040	<0.040	<0.040	0	<0.040	<0.040	<0.040

Notes: Underlined mercury and methyl mercury concentrations in muscle tissue exceed the Canadian Food Inspection Agency standards for mercury in fish (0.5 mg/kg ww; CFIA 2014) or the Canadian Council of Ministers of the Environment Tissue Residue Quality Guidelines for the Protection of Wildlife Consumer of Aquatic Biota for methyl mercury (0.033 mg/kg ww; CCME 2014a). Arsenic and lead concentrations in muscle tissue were compared to the CFIA human consumption standards for arsenic and lead in fish (3.5 mg/kg ww for arsenic and 0.5 mg/kg ww for lead; CFIA 2014), with no values exceeding the guidelines.

[a] If analytical detection limits were not the same for a parameter across all samples, the range was provided.

[b] Values below the analytical detection limit were replaced with the analytical detection limit when calculating the mean. If more than 50% of values for a single group of samples were below the analytical detection limit, the mean value was set to the analytical detection limit.

mg/kg ww = milligrams per kilogram wet weight; < = less than; n = number; % = percent.

Table 2: Summary of Mercury and Methyl Mercury Concentrations in Muscle and Liver Tissue, Length, Weight, and Age of Lake Trout Collected from Lac du Sauvage, 2014

Sample	Mercury Concentration in Muscle Tissue [mg/kg ww]	Mercury Concentration in Liver Tissue [mg/kg ww]	Methyl Mercury Concentration in Muscle Tissue [mg/kg ww]	Methyl Mercury Concentration in Liver Tissue [mg/kg ww]	Fork Length [mm]	Total Body Weight [g]	Age [y]	Sex
14-LDS-LKTR-1	0.272	0.483	**0.0431**	0.163	732	4,450	23[(a)]	Male
14-LDS-LKTR-2	0.167	0.118	0.0280	0.0820	455	1,015	9	Female
14-LDS-LKTR-3	0.164	0.124	0.0270	0.0554	464	950	9	Female
14-LDS-LKTR-4	0.230	0.558	0.0310	0.0559	573	2,015	-[(b)]	Male
14-LDS-LKTR-5	0.147	0.123	0.0172	0.0475	511	1,500	10	Male
14-LDS-LKTR-6	0.188	0.180	0.0266	0.0664	555	2,100	20	Male
14-LDS-LKTR-7	0.149	0.0876	0.0209	0.0585	486	1,200	12	Female
14-LDS-LKTR-8	0.190	0.257	**0.0444**	0.102	626	2,900	11	Female
14-LDS-LKTR-9	0.120	0.177	0.0293	0.0853	633	3,100	20	Male
14-LDS-LKTR-10	0.148	0.157	0.0183	0.0482	610	2,900	12	Female
14-LDS-LKTR-11	0.169	0.132	0.0155	0.0528	560	1,950	11	Female
14-LDS-LKTR-12	0.241	0.202	0.0266	0.134	620	3,000	18	Male
14-LDS-LKTR-13	0.176	0.165	0.0148	0.0444	574	1,950	13	Female
14-LDS-LKTR-14	0.186	0.179	0.0158	0.0783	543	1,900	12	Male
14-LDS-LKTR-15	0.145	0.123	0.0124	0.0429	531	1,700	10	Male
14-LDS-LKTR-16	0.586	0.779	**0.0588**	0.156	682	3,550	24	Female
14-LDS-LKTR-17	0.275	0.537	0.0300	0.149	695	3,300	16	Female
14-LDS-LKTR-18	0.265	0.318	0.109	0.0492	697	2,450	18	Male

Notes: Underlined mercury and methyl mercury concentrations in muscle tissue exceed the Canadian Food Inspection Agency standards for mercury in fish (0.5 mg/kg ww; CFIA 2014). Bolded methyl mercury concentrations in muscle tissue exceed the Canadian Council of Ministers of the Environment Tissue Residue Quality Guidelines for the Protection of Wildlife Consumer of Aquatic Biota for methyl mercury (0.033 mg/kg ww; CCME 2014a).

(a) Fin rays were used to age the fish, as the otoliths were damaged.

(b) No aging structures were collected.

mg/kg ww = milligrams per kilogram wet weight; mm = millimetre; g = gram; y = year; - = data not available.

Table 3: Summary of Mercury and Methyl Mercury Concentrations in Muscle and Liver Tissue, Length, Weight and Age of Lake Trout Collected from Ursula Lake, 2014

Sample	Mercury Concentration in Muscle Tissue [mg/kg ww]	Mercury Concentration in Liver Tissue [mg/kg ww]	Methyl Mercury Concentration in Muscle Tissue [mg/kg ww]	Methyl Mercury Concentration in Liver Tissue [mg/kg ww]	Fork Length [mm]	Total Body Weight [g]	Age [y]	Sex
14-URS-LKTR-1	0.108	0.0825	0.0314	0.0443	447	900	10	Male
14-URS-LKTR-2	0.277	0.238	**0.106**	0.125	580	1,650	14	Female
14-URS-LKTR-3	0.439	1.29	**0.280**	0.210	605	2,000	34	Female
14-URS-LKTR-4	0.0695	0.0684	0.0288	0.0139	450	950	10[(a)]	Female
14-URS-LKTR-5	0.0845	0.0686	**0.0337**	0.0220	449	900	16	Female

Notes: None of the mercury and methyl mercury concentrations in muscle tissue exceeded the Canadian Food Inspection Agency standards for mercury in fish (0.5 mg/kg ww; CFIA 2014). Bolded methyl mercury concentrations exceed the Canadian Council of Ministers of the Environment Tissue Residue Quality Guidelines for the Protection of Wildlife Consumer of Aquatic Biota for methyl mercury (0.033 mg/kg ww; CCME 2014a).

(a) Fin rays were used to age this fish, as the otoliths were damaged.

mg/kg ww = milligrams per kilogram wet weight; mm = millimetre; g = gram; y = year.

Closure

We trust that this technical memorandum meets your present requirements. If you have any questions or require additional details, please contact the undersigned.

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https://capws.golder.com/sites/1313280041JayCardinal/2014 Baseline Data Collection/7042_AquaticHealth/Aquatic Health Tech Memo/Report/2014 Aqua Health Memo_PMC.docx

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APPENDIX A

Water Quality

Water quality samples in Ursula Lake were collected according to Golder's standard technical procedures and the specific handling requirements of ALS Laboratories. Detailed water sampling procedures are described in the Jay Project Developers Assessment Report (Annex XI; Dominion Diamond 2014) and 2014 Water and Sediment Quality Supplemental Monitoring Report (Dominion Diamond 2015). Water quality samples were collected from the middle of the water column. One test sample and one field duplicate sample were collected.

Water chemistry results for the water sample and duplicate sample collected from Ursula Lake are provided in Table A1. Summary statistics were not calculated as only a single sample was collected. Concentrations of parameters were compared to acute and chronic CCME Canadian Water Quality Guidelines for the protection of Aquatic Life (CCME 2014b) and site-specific water quality objectives (SSWQOs) for the Ekati Mine.

In general, water quality in Ursula Lake was characteristic of oligotrophic lakes in northern Canada, having circumneutral pH, and low hardness, ion, nutrient, and metal concentrations, which were near or below the analytical detection limit.

All parameters, with the exception of total mercury, had measured concentrations at or below CCME CWQGs and SSWQOs. The total mercury concentration in the Ursula Lake water sample was 0.00065 micrograms per litre (µg/L), while the CCME (2014b) CWQG for total mercury is 0.000026 µg/L. The total mercury concentration in the duplicate sample was below the analytical detection limit (0.00050 µg/L); however, the analytical detection limit exceeds the CCME (2014b) CWQG.

Table A1: Ursula Lake Water Chemistry, August 2014

Parameter	Units	Guidelines for the Protection of Aquatic Life		Site-Specific Water Quality Objectives		Detection Limit	Ursula Lake	
							26 August 2014	
		Short-term CWQG[(a)]	Long-term CWQG[(a)]	Short-term	Long-term		URS-1	Duplicate
Field Measured								
Total depth	m	—	—	—	—	—	15.0	15.0
Sample depth	m	—	—	—	—	—	7.5	7.5
Secchi depth	m	—	—	—	—	—	10.4	10.4
Water temperature	°C	—	—	—	—	—	11.5	11.5
Surface pH	pH units	—	6.5 to 9.0	—	—	—	7.18	7.18
Specific conductivity	µS/cm	—	—	—	—	—	16	16
Dissolved oxygen	mg/L	—	6.5 to 9.5	—	—	—	10.42	10.42
Dissolved oxygen saturation	%	—	—	—	—	—	95.6	95.6
Conventional Parameters (Laboratory measured)								
Alkalinity, Total	mg/L	—	—	—	—	2.0	3.5	3.0
Color, True	C.U.	—	—	—	—	2.0	2.7	<2.0
Conductivity	µS/cm	—	—	—	—	0.20	11.9	11.3
Gran Alkalinity	meq/L	—	—	—	—	0.10	<0.10	<0.10
Hardness (as $CaCO_3$)	mg/L	—	—	—	—	1.3	3.2	3.2
Total Suspended Solids	mg/L	—	—	—	—	3.0	<3.0	<3.0
Total Dissolved Solids	mg/L	—	—	—	—	10	12	17
Total Kjeldahl Nitrogen	mg/L	—	—	—	—	0.050	0.096	<0.050
TDS (Calculated)	mg/L	—	—	—	—	-	5.3	5.0

Table A1: Ursula Lake Water Chemistry, August 2014

Parameter	Units	Guidelines for the Protection of Aquatic Life		Site-Specific Water Quality Objectives		Detection Limit	Ursula Lake 26 August 2014	
		Short-term CWQG[a]	Long-term CWQG[a]	Short-term	Long-term		URS-1	Duplicate
Turbidity	NTU	—	—	—	—	0.10	0.37	0.37
Major Ions								
Bicarbonate	mg/L	—	—	—	—	5.0	<5.0	<5.0
Calcium	mg/L	—	—	—	—	0.5	0.58	0.57
Carbonate	mg/L	—	—	—	—	5.0	<5.0	<5.0
Chloride	mg/L	640	120	—	64[f]	0.50	<0.50	<0.50
Fluoride	mg/L	—	0.12	—	—	0.020	<0.020	<0.020
Magnesium	mg/L	—	—	—	—	0.1	0.44	0.43
Potassium	mg/L	—	—	112[g]	41[g]	0.5	<0.50	<0.50
Sodium	mg/L	—	—	—	—	1.0	<1.0	<1.0
Hydroxide	mg/L	—	—	—	—	5.0	<5.0	<5.0
Sulphate	mg/L	—	—	213[h]	16[h]	0.050	1.40	1.30
Nutrients								
Ammonia, Total (as N)	mg/L	—	4.96[b]	—	—	0.0050	<0.0050	<0.0050
Nitrate and Nitrite (as N)	mg/L	—	—	—	—	0.0060	<0.0060	<0.0060
Nitrate (as N)	mg/L	124	3.0	—	—	0.0060	<0.0060	<0.0060
Nitrite (as N)	mg/L	—	0.060	—	0.397[i]	0.0020	<0.0020	<0.0020
Total Nitrogen	mg/L	—	—	—	—	0.050	0.096	<0.050
Organic Carbon-Dissolved	mg/L	—	—	—	—	0.50	2.29	2.17
Organic Carbon-Total	mg/L	—	—	—	—	0.50	2.59	2.60
Phosphorus-Total Dissolved	mg/L	—	—	—	—	0.0010	<0.0010	<0.0010
Phosphorus-Total	mg/L	—	—	—	—	0.0010	0.0031	0.0033
Silica, Reactive	mg/L	—	—	—	—	0.010	0.094	0.092
Sulphide (as S)	mg/L	—	—	—	—	0.0015	0.0077	<0.0015
Total Metals								
Aluminum	mg/L	—	0.1[c]	—	—	0.00030	0.00441	0.00506
Antimony	mg/L	—	—	—	—	0.000020	<0.000020	0.000047
Arsenic	mg/L	—	0.005	—	—	0.000020	0.000110	0.000118
Barium	mg/L	—		—	—	0.000050	0.00164	0.00164
Beryllium	mg/L	—	—	—	—	0.000010	<0.000010	<0.000010
Bismuth	mg/L	—	—	—	—	0.000010	<0.000010	<0.000010
Boron	mg/L	29	1.5	—	—	0.0010	0.0032	0.0018
Cadmium	mg/L	0.00011[d]	0.00004[d]	—	—	0.0000050	<0.0000050	<0.0000050
Cesium	mg/L	—	—	—	—	0.0000050	0.0000141	0.0000143
Chromium	mg/L	—	0.001[e]	—	—	0.000060	<0.000060	<0.000060
Cobalt	mg/L	—	—	—	—	0.000010	0.000019	0.000019
Copper	mg/L	—	0.002[d]	—	—	0.00010	0.00024	0.00028
Iron	mg/L	—	0.3	—	—	0.0010	0.0103	0.0098
Lead	mg/L	—	0.001[d]	—	—	0.000010	<0.000010	<0.000010
Lithium	mg/L	—	—	—	—	0.00050	0.00089	0.00094
Manganese	mg/L	—	—	—	—	0.000050	0.00199	0.00204

Table A1: Ursula Lake Water Chemistry, August 2014

Parameter	Units	Guidelines for the Protection of Aquatic Life		Site-Specific Water Quality Objectives		Detection Limit	Ursula Lake	
							26 August 2014	
		Short-term CWQG[a]	Long-term CWQG[a]	Short-term	Long-term		URS-1	Duplicate
Mercury	µg/L	—	0.000026	—	—	0.00050	**0.00065**	**<0.00050[l]**
Molybdenum	mg/L	—	0.073	223[j]	19[j]	0.000050	<0.000050	<0.000050
Nickel	mg/L	—	0.025[d]	—	—	0.000060	0.000176	0.000176
Selenium	mg/L	—	0.001	—	—	0.000040	<0.000040	<0.000040
Silicon	mg/L	—	—	—	—	0.050	0.059	<0.050
Silver	mg/L	—	0.0001	—	—	0.0000050	<0.0000050	<0.0000050
Strontium	mg/L	—	—	—	—	0.000050	0.00412	0.00401
Sulfur	mg/L	—	—	—	—	0.50	<0.50	<0.50
Thallium	mg/L	—	0.0008	—	—	0.000010	<0.000010	<0.000010
Tin	mg/L	—	—	—	—	0.000050	<0.000050	<0.000050
Titanium	mg/L	—	—	—	—	0.00010	<0.00010	<0.00010
Uranium	mg/L	0.033	0.015	—	—	0.000010	0.000012	0.000012
Vanadium	mg/L	—	—	300[k]	30[k]	0.000050	<0.000050	<0.000050
Zinc	mg/L	—	0.03	—	—	0.00080	<0.00080	<0.00080
Zirconium	mg/L	—	—	—	—	0.00060	<0.00060	<0.00060

Notes: Bolded values are greater than relevant water quality guidelines. Only field-measured pH was compared to water quality guidelines, as pH may change before the sample is analyzed in the laboratory.

[a] Canadian Council of Ministers of the Environment (CCME) Canadian Water Quality Guidelines for the Protection of Aquatic Life (CCME 2014b).

[b] Guideline based on a water temperature of 11.5°C and a pH of 7.18.

[c] The guideline for aluminum is 0.1 mg/L if pH is ≥6.5 or 0.005 mg/L is pH is <6.5.

[d] The guidelines for cadmium, copper, lead and nickel are hardness-dependent. Guidelines based on a hardness of 3.2 mg/L as $CaCO_3$.

[e] The guideline for chromium VI was used for to compare to total chromium concentrations.

[f] Elphick et al. 2011. The Site-specific water quality objective for chloride is hardness based, and was determined for hardness ranging from 10 to 160 mg/L $CaCO_3$. As such, the guideline value corresponding to 10 mg/L (i.e., the lowest value) is presented.

[g] Rescan. 2012a.

[h] Rescan. 2012b.

[i] Rescan. 2012c.

[j] Rescan. 2012d.

[k] Rescan. 2012e.

[l] The detection limit for mercury was above the CCME Water Quality Guideline for the Protection of Aquatic Life; the value bolded was below the analytical detection limit.

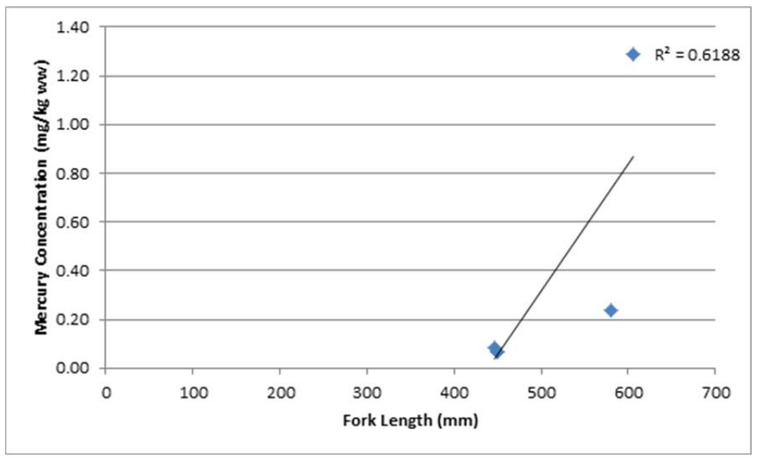
[m] Dissolved oxygen guidelines presented are for cold water biota.

CCME = Canadian Council of Ministers of the Environment; CWQG = Canadian Water Quality Guideline for the Protection of Aquatic Life; mg/L = milligrams per litre; µg/L = micrograms per litre; C.U. = color unit; meq/L = milliequivalents per litre; NTU = nephelometric turbidity units; °C = degrees Celsius; µS/cm = microSiemens per centimetre; < = less than; ≥ = greater than or equal to.

APPENDIX B

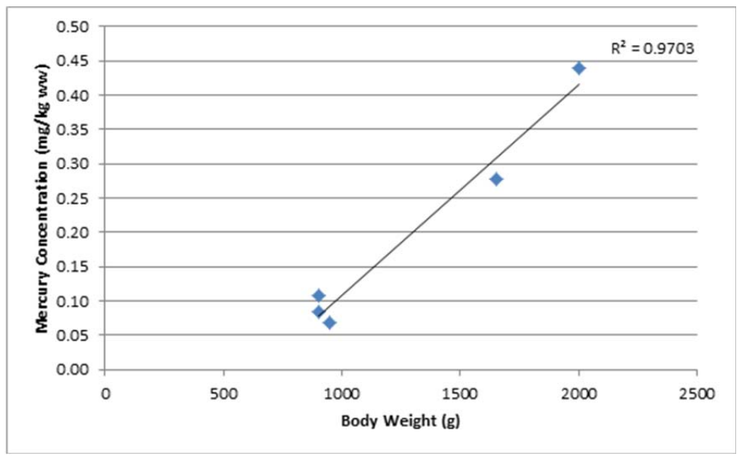
Mercury Comparison Plots

Figure B-1: Mercury Concentrations in Muscle Tissue versus Fork Length of Lake Trout Captured in Ursula Lake, 2014



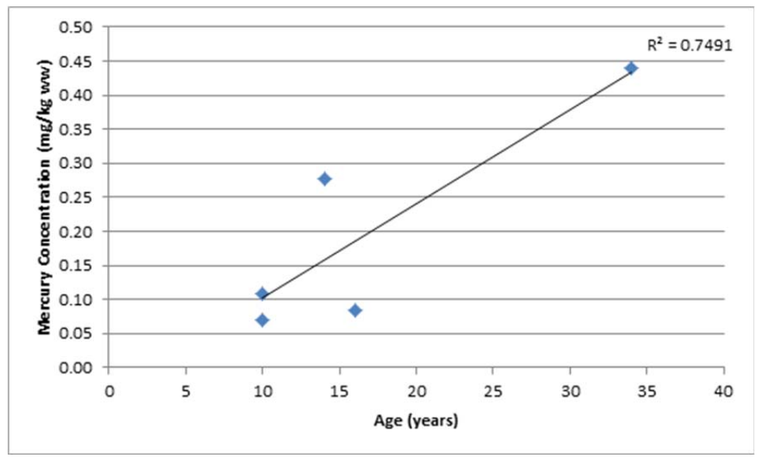
mg/kg ww = Milligrams per kilogram wet weight; mm = millimetre; R^2 = coefficient of determination.

Figure B-2: Mercury Concentrations in Muscle Tissue versus Body Weight of Lake Trout Captured in Ursula Lake, 2014



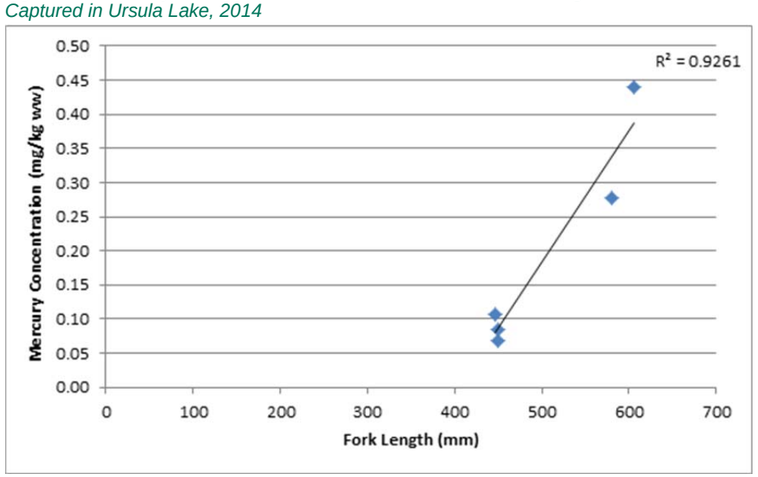
mg/kg ww = Milligrams per kilogram wet weight; g = gram; R^2 = coefficient of determination.

Figure B-3: Mercury Concentrations in Muscle Tissue versus Age of Lake Trout Captured in Ursula Lake, 2014



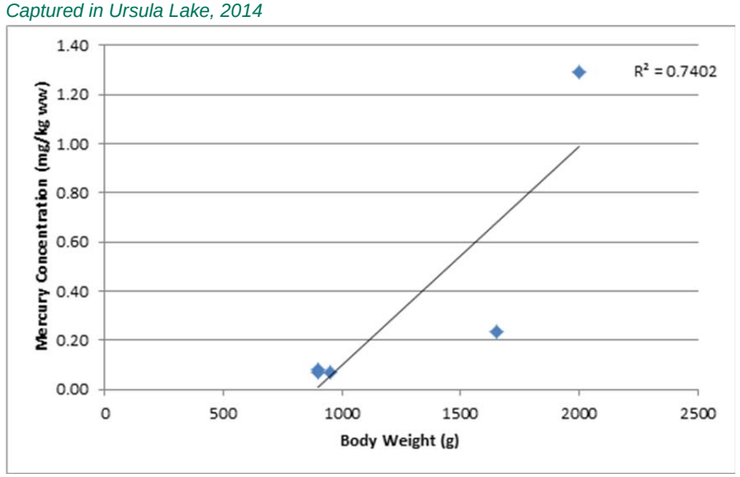
mg/kg ww = Milligrams per kilogram wet weight; R^2 = coefficient of determination.

Figure B-4: Mercury Concentrations in Liver Tissue versus Fork Length of Lake Trout Captured in Ursula Lake, 2014



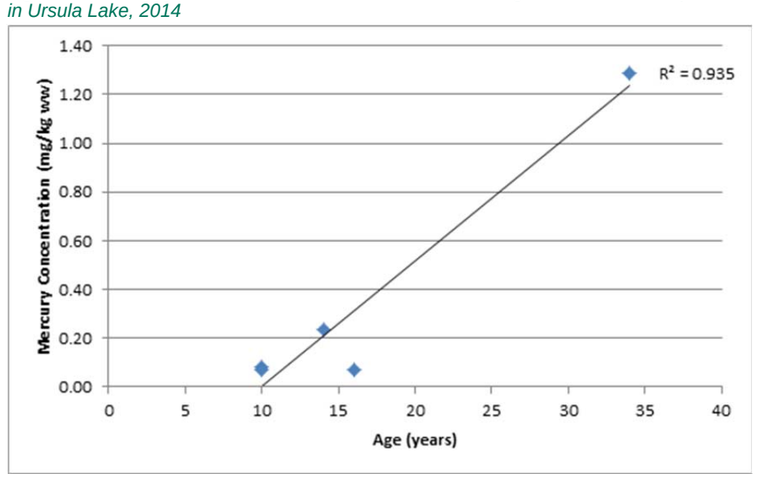
mg/kg ww =Milligrams per kilogram wet weight; mm = millimetre; R^2 = coefficient of determination.

Figure B-5: Mercury Concentrations in Liver Tissue versus Body Weight of Lake Trout Captured in Ursula Lake, 2014



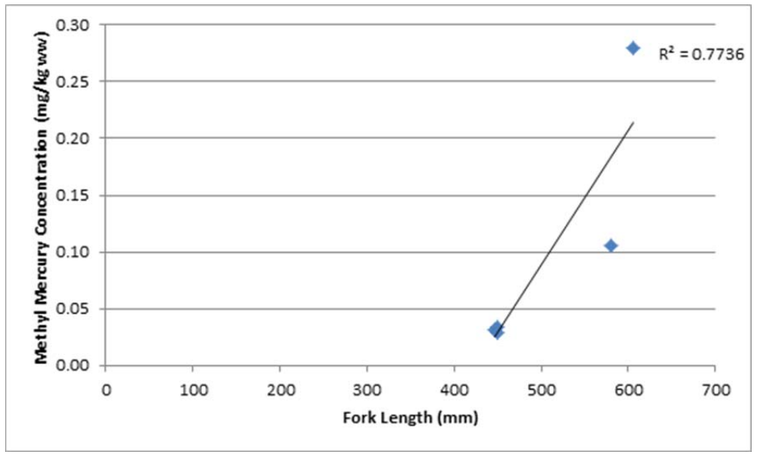
mg/kg ww = Milligrams per kilogram wet weight; g = gram; R^2 = coefficient of determination.

Figure B-6: Mercury Concentrations in Liver Tissue versus Age of Lake Trout Captured in Ursula Lake, 2014



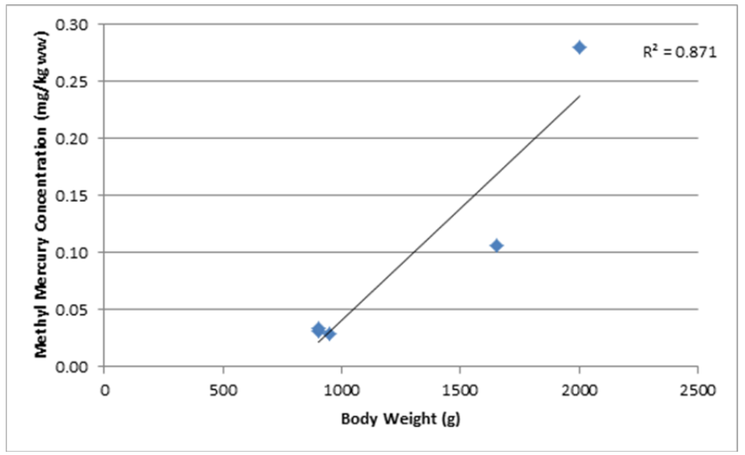
mg/kg ww = Milligrams per kilogram wet weight; R^2 = coefficient of determination.

Figure B-7: Methyl Mercury Concentrations in Muscle Tissue versus Fork Length of Lake Trout Captured in Ursula Lake, 2014



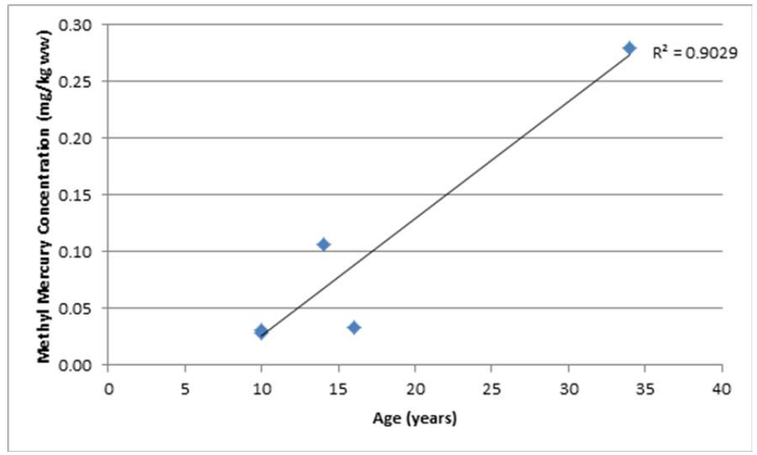
mg/kg ww = Milligrams per kilogram wet weight; mm = millimetre; R^2 = coefficient of determination

Figure B-8: Methyl Mercury Concentrations in Muscle Tissue versus Body Weight of Lake Trout Captured in Ursula Lake, 2014



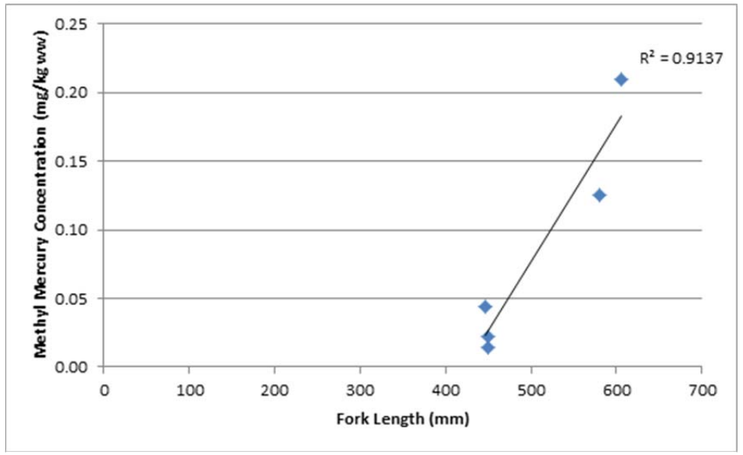
mg/kg ww = Milligrams per kilogram wet weight; g = gram; R^2 = coefficient of determination.

Figure B-9: Methyl Mercury Concentrations in Muscle Tissue versus Age of Lake Trout Captured in Ursula Lake, 2014



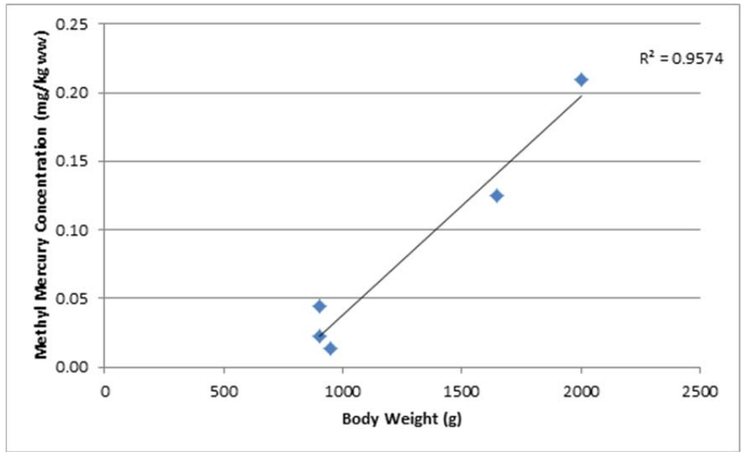
mg/kg ww = Milligrams per kilogram wet weight; R^2 = coefficient of determination.

Figure B-10: Methyl Mercury Concentrations in Liver Tissue versus Fork Length of Lake Trout Captured in Ursula Lake, 2014



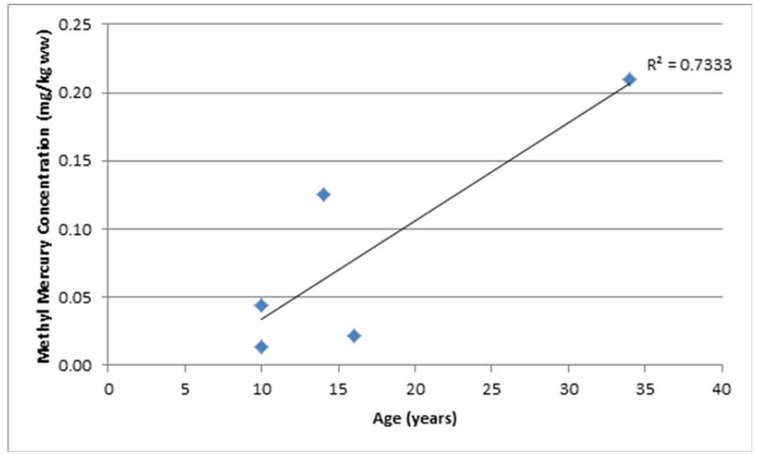
mg/kg ww = Milligrams per kilogram wet weight; mm = millimetre; R^2 = coefficient of determination.

Figure B-11: Methyl Mercury Concentrations in Liver Tissue versus Body Weight of Lake Trout Captured in Ursula Lake, 2014



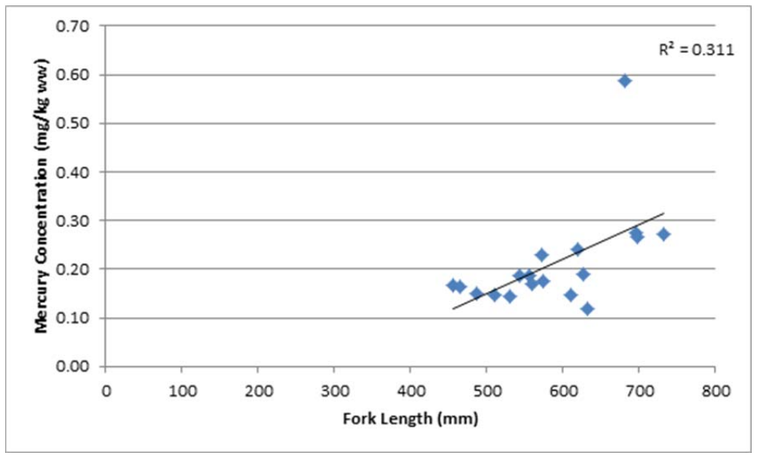
mg/kg ww = Milligrams per kilogram wet weight; g = gram; R^2 = coefficient of determination.

Figure B-12: Methyl Mercury Concentrations in Liver Tissue versus Age of Lake Trout Captured in Ursula Lake, 2014



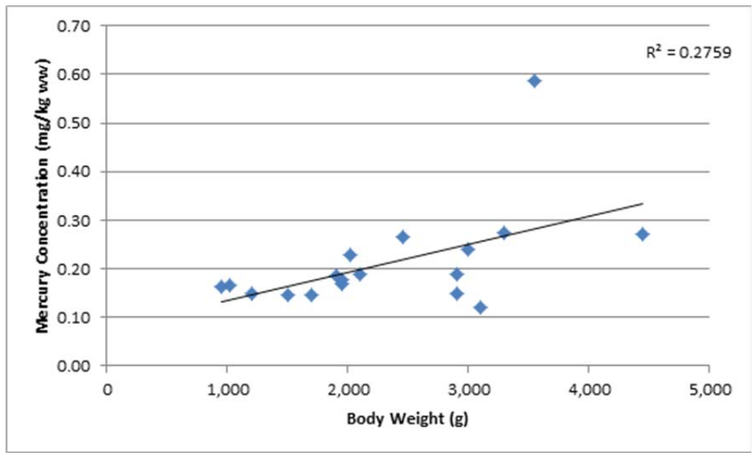
mg/kg ww = Milligrams per kilogram wet weight; R^2 = coefficient of determination.

Figure B-13: Mercury Concentrations in Muscle Tissue versus Fork Length of Lake Trout Captured in Lac du Sauvage, 2014



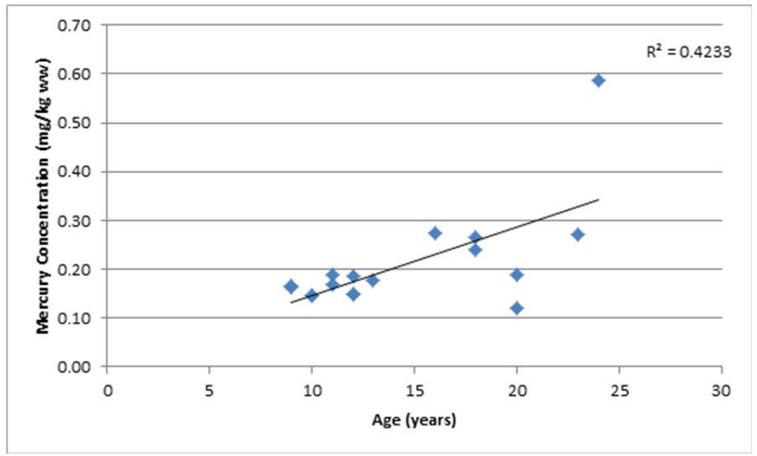
mg/kg ww = Milligrams per kilogram wet weight; mm = millimetre; R^2 = coefficient of determination.

Figure B-14: Mercury Concentrations in Muscle Tissue versus Body Weight of Lake Trout Captured in Lac du Sauvage, 2014



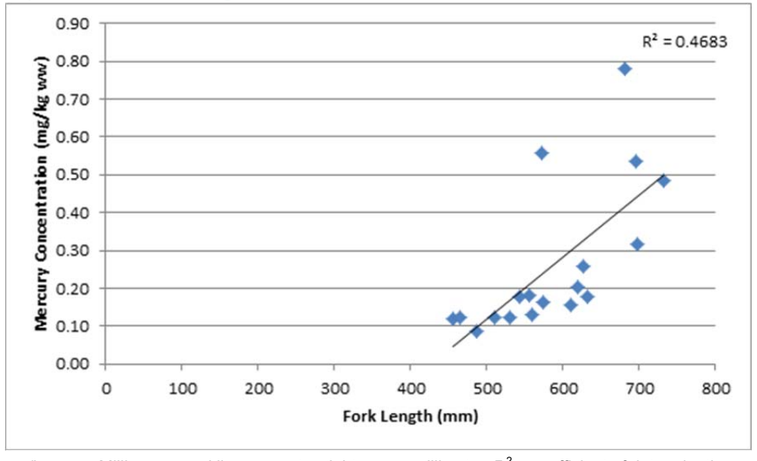
mg/kg ww = Milligrams per kilogram wet weight; g = gram; R^2 = coefficient of determination.

Figure B-15: Mercury Concentrations in Muscle Tissue versus Age of Lake Trout Captured in Lac du Sauvage, 2014



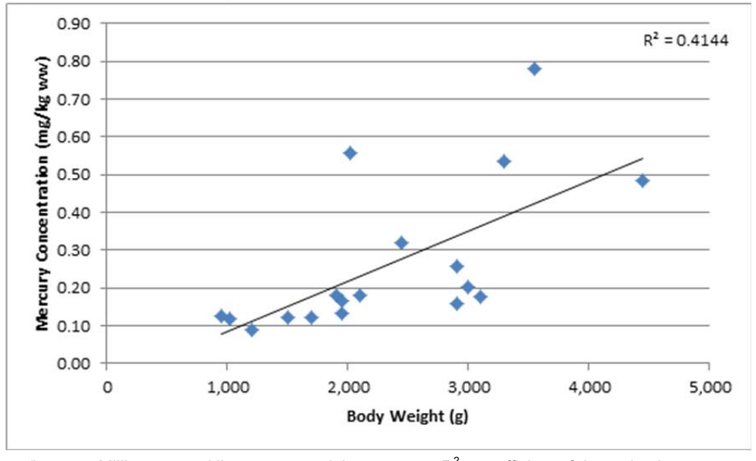
mg/kg ww = Milligrams per kilogram wet weight; R^2 = coefficient of determination.

Figure B-16: Mercury Concentrations in Liver Tissue versus Fork Length of Lake Trout Captured in Lac du Sauvage, 2014



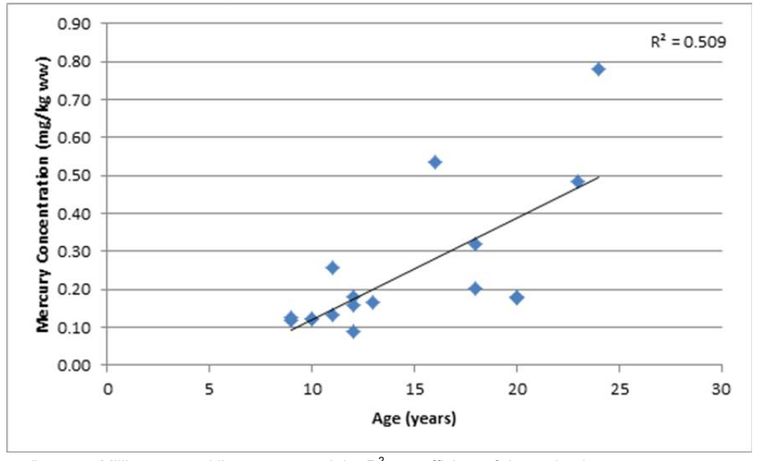
mg/kg ww = Milligrams per kilogram wet weight; mm = millimetre; R^2 = coefficient of determination.

Figure B-17: Mercury Concentrations in Liver Tissue versus Body Weight of Lake Trout Captured in Lac du Sauvage, 2014



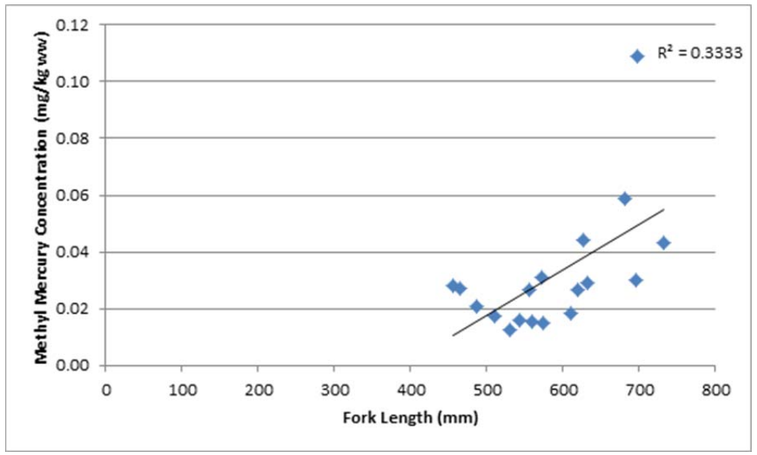
mg/kg ww = Milligrams per kilogram wet weight; g = gram; R^2 = coefficient of determination.

Figure B-18: Mercury Concentrations in Liver Tissue versus Age of Lake Trout Captured in Lac du Sauvage, 2014



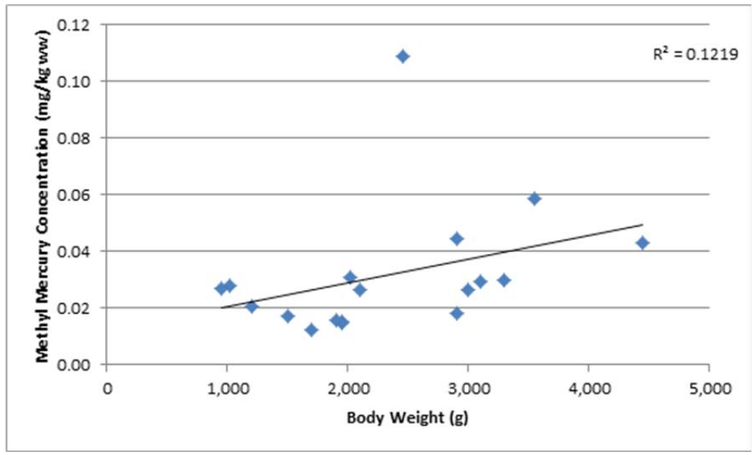
mg/kg ww = Milligrams per kilogram wet weight; R^2 = coefficient of determination.

Figure B-19: Methyl Mercury Concentrations in Muscle Tissue versus Fork Length of Lake Trout Captured in Lac du Sauvage, 2014



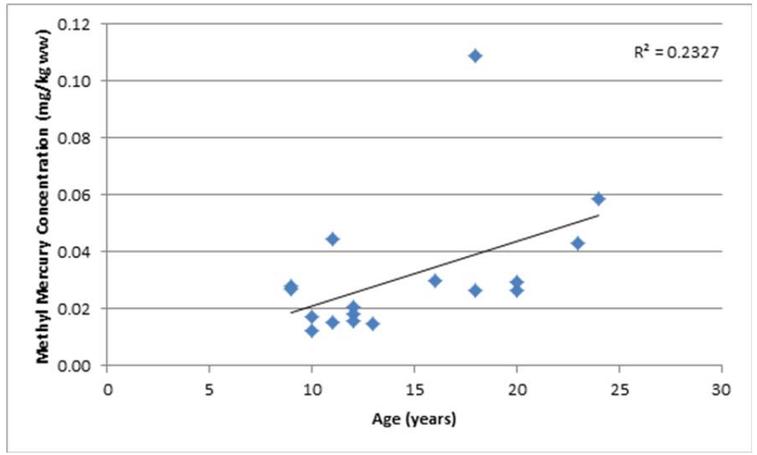
mg/kg ww = Milligrams per kilogram wet weight; mm = millimetre; R^2 = coefficient of determination.

Figure B-20: Methyl Mercury Concentrations in Muscle Tissue versus Body Weight of Lake Trout Captured in Lac du Sauvage, 2014



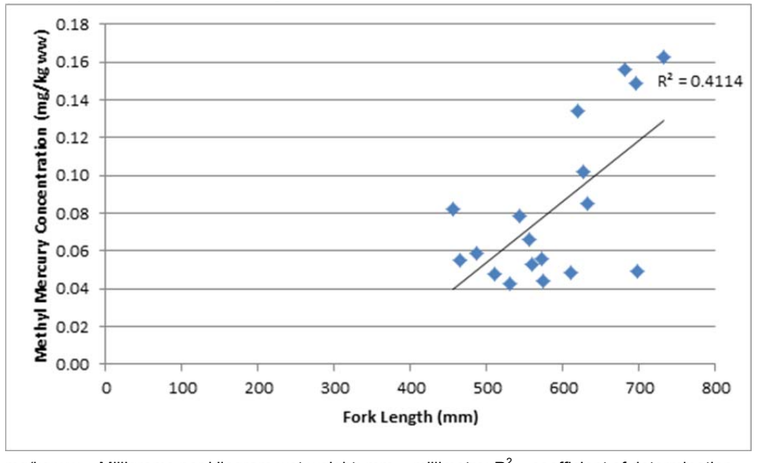
mg/kg ww = Milligrams per kilogram wet weight; g = gram; R^2 = coefficient of determination.

Figure B-21: Methyl Mercury Concentrations in Muscle Tissue versus Age of Lake Trout Captured in Lac du Sauvage, 2014



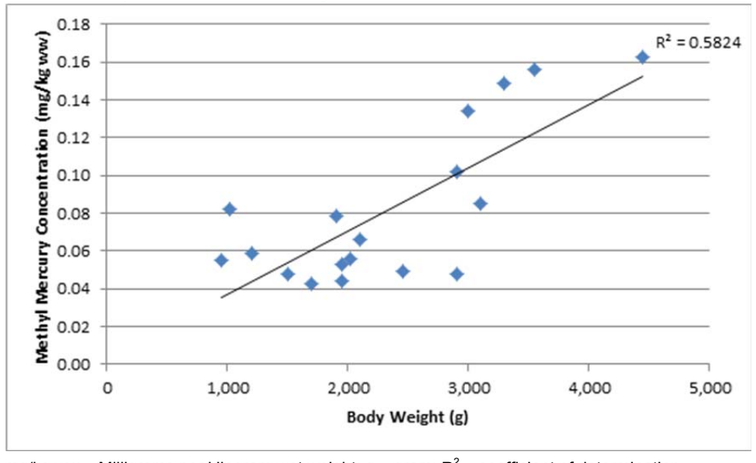
mg/kg ww = Milligrams per kilogram wet weight; R^2 = coefficient of determination.

Figure B-22: Methyl Mercury Concentrations in Liver Tissue versus Fork Length of Lake Trout Captured in Lac du Sauvage, 2014



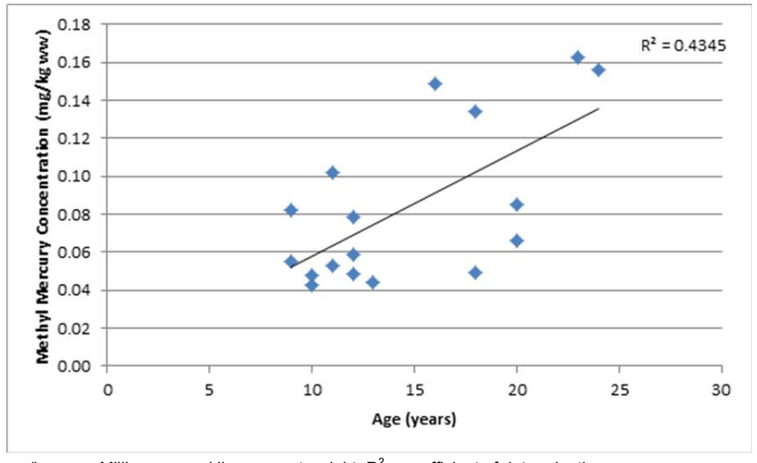
mg/kg ww = Milligrams per kilogram wet weight; mm = millimetre; R^2 = coefficient of determination.

Figure B-23: Methyl Mercury Concentrations in Liver Tissue versus Body Weight of Lake Trout Captured in Lac du Sauvage, 2014



mg/kg ww = Milligrams per kilogram wet weight; g = gram; R^2 = coefficient of determination.

Figure B-24: Methyl Mercury Concentrations in Liver Tissue versus Age of Lake Trout Captured in Lac du Sauvage, 2014



mg/kg ww = Milligrams per kilogram wet weight; R^2 = coefficient of determination.

APPENDIX C

Analytical Laboratory Reports

Golder Associates Ltd.
ATTN: BLAIR HERSIKORN
1721 8th STREET EAST
SASKATOON SK S7H 0T4

Date Received: 27-AUG-14
Report Date: 06-NOV-14 13:06 (MT)
Version: FINAL

Client Phone: 306-665-7989

Certificate of Analysis

Lab Work Order #: L1508808

Project P.O. #: 14707256 PHASE 7042, TASK 30
Job Reference:
C of C Numbers: JAYLDS001
Legal Site Desc:

Brian Morgan
Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-1 14 LDS LKTR 1M							
Sampled By: CLIENT on 20-AUG-14 @ 12:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	70.0		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.272		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0431		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	3.33		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0601		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.021		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	70.2		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0875		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0054		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.336		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	6.29		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0164		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	276		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.142		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2550		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4240		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	20.4		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.144		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	288		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.115		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0105		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	0.00071		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.34		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-3 14 LDS LKTR 1L							
Sampled By: CLIENT on 20-AUG-14 @ 12:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	63.4		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.483		0.013	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.163		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	7.05		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.164		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.044		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-3 14 LDS LKTR 1L							
Sampled By: CLIENT on 20-AUG-14 @ 12:00							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.140		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	191		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0358		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.075		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0653		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	36.2		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	66.1		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0147		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	168		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	1.58		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.205		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	0.068		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	3440		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	3060		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	17.6		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	1.31		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	931		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.282		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0788		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	0.00376		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	0.026		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	37.2		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-4 14 LDS LKTR 2M							
Sampled By: CLIENT on 20-AUG-14 @ 14:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	75.0		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.167		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0280		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.70		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0186		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.017		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	208		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0526		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.310		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	2.60		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0852		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-4 14 LDS LKTR 2M							
Sampled By: CLIENT on 20-AUG-14 @ 14:00							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Magnesium (Mg)-Total	303		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.301		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2810		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4500		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	11.8		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.168		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	214		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.422		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00504		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	4.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-6 14 LDS LKTR 2L							
Sampled By: CLIENT on 20-AUG-14 @ 14:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	72.5		0.10	%		10-OCT-14	R2991012
Mercury (Hg)-Total	0.118		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R2999610
Methyl Mercury	0.0820		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	<1.0		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Arsenic (As)-Total	0.0375		0.0060	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Barium (Ba)-Total	0.019		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Bismuth (Bi)-Total	0.0021		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cadmium (Cd)-Total	0.0612		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Calcium (Ca)-Total	208		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cesium (Cs)-Total	0.0272		0.0010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Chromium (Cr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cobalt (Co)-Total	0.0353		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Copper (Cu)-Total	28.9		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Iron (Fe)-Total	106		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lead (Pb)-Total	0.012		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Magnesium (Mg)-Total	193		0.40	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Manganese (Mn)-Total	2.38		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Molybdenum (Mo)-Total	0.138		0.0080	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Nickel (Ni)-Total	0.050		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Phosphorus (P)-Total	3720		2.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Potassium (K)-Total	2660		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Rubidium (Rb)-Total	11.5		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Selenium (Se)-Total	1.11		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Sodium (Na)-Total	1530		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Strontium (Sr)-Total	0.333		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-6 14 LDS LKTR 2L							
Sampled By: CLIENT on 20-AUG-14 @ 14:00							
Matrix: Tissue							
Metals in Tissue by HR-ICPMS Micro (WET)							
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Thallium (Tl)-Total	0.0545		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zinc (Zn)-Total	39.1		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
L1508808-7 14 LDS LKTR 3M							
Sampled By: CLIENT on 20-AUG-14 @ 14:30							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	76.0		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.164		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0270		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	2.08		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	0.0044		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0118		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.017		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	104		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0546		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.240		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	5.46		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.126		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	291		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.192		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2840		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4640		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	12.3		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.167		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	238		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.156		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00555		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	4.00		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-9 14 LDS LKTR 3L							
Sampled By: CLIENT on 20-AUG-14 @ 14:30							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	69.7		0.10	%		10-OCT-14	R2991012
Mercury (Hg)-Total	0.124		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R2999610
Methyl Mercury	0.0554		0.0010	mg/kg wwt		17-OCT-14	R3003048
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	4.5		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Arsenic (As)-Total	0.0479		0.0060	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Barium (Ba)-Total	0.075		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cadmium (Cd)-Total	0.0592		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Calcium (Ca)-Total	365		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cesium (Cs)-Total	0.0299		0.0010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Chromium (Cr)-Total	0.058		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cobalt (Co)-Total	0.0962		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Copper (Cu)-Total	11.5		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Iron (Fe)-Total	80.5		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lead (Pb)-Total	0.027		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Magnesium (Mg)-Total	215		0.40	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Manganese (Mn)-Total	2.04		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Molybdenum (Mo)-Total	0.203		0.0080	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Nickel (Ni)-Total	0.046		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Phosphorus (P)-Total	4270		2.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Potassium (K)-Total	3450		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Rubidium (Rb)-Total	11.3		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Selenium (Se)-Total	1.52		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Sodium (Na)-Total	1180		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Strontium (Sr)-Total	0.396		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Thallium (Tl)-Total	0.0590		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Uranium (U)-Total	0.00109		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zinc (Zn)-Total	42.2		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
L1508808-10 14 LDS LKTR 4M							
Sampled By: CLIENT on 20-AUG-14 @ 09:47							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	74.9		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.230		0.0070	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.0310		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.65		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0208		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.012		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-10 14 LDS LKTR 4M							
Sampled By: CLIENT on 20-AUG-14 @ 09:47							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	198		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0652		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.219		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	2.32		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0620		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	293		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.129		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2710		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4410		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	12.5		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.185		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	343		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.314		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00614		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.09		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-12 14 LDS LKTR 4L							
Sampled By: CLIENT on 20-AUG-14 @ 09:47							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	57.9		0.10	%		10-OCT-14	R2991012
Mercury (Hg)-Total	0.558		0.011	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0559		0.0010	mg/kg wwt		17-OCT-14	R3003048
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	3.0		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Antimony (Sb)-Total	0.0030		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Arsenic (As)-Total	0.0528		0.0060	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Barium (Ba)-Total	0.056		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cadmium (Cd)-Total	0.233		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Calcium (Ca)-Total	563		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cesium (Cs)-Total	0.0259		0.0010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Chromium (Cr)-Total	0.149		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cobalt (Co)-Total	0.0676		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Copper (Cu)-Total	33.7		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Iron (Fe)-Total	880		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lead (Pb)-Total	0.221		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-12 14 LDS LKTR 4L							
Sampled By: CLIENT on 20-AUG-14 @ 09:47							
Matrix: Tissue							
Metals in Tissue by HR-ICPMS Micro (WET)							
Magnesium (Mg)-Total	195		0.40	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Manganese (Mn)-Total	2.40		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Molybdenum (Mo)-Total	0.221		0.0080	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Nickel (Ni)-Total	0.071		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Phosphorus (P)-Total	3370		2.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Potassium (K)-Total	3050		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Rubidium (Rb)-Total	10.8		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Selenium (Se)-Total	1.90		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Sodium (Na)-Total	947		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Strontium (Sr)-Total	0.373		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Thallium (Tl)-Total	0.0603		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Uranium (U)-Total	0.00227		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Vanadium (V)-Total	0.022		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zinc (Zn)-Total	45.2		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
L1508808-13 14 LDS LKTR 5M							
Sampled By: CLIENT on 20-AUG-14 @ 12:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	74.7		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.147		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0172		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.44		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0206		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	71.4		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0638		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.289		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	2.56		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	292		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.101		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2790		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4600		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	13.5		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.166		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	258		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.113		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-13 14 LDS LKTR 5M							
Sampled By: CLIENT on 20-AUG-14 @ 12:00							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00506		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.40		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-15 14 LDS LKTR 5L							
Sampled By: CLIENT on 20-AUG-14 @ 12:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	66.4		0.10	%		10-OCT-14	R2991012
Mercury (Hg)-Total	0.123		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R2999610
Methyl Mercury	0.0475		0.0010	mg/kg wwt		17-OCT-14	R3003048
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	<1.0		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Arsenic (As)-Total	0.0425		0.0060	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Barium (Ba)-Total	0.042		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Bismuth (Bi)-Total	0.0028		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cadmium (Cd)-Total	0.0575		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Calcium (Ca)-Total	439		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cesium (Cs)-Total	0.0347		0.0010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Chromium (Cr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cobalt (Co)-Total	0.0753		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Copper (Cu)-Total	19.2		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Iron (Fe)-Total	58.7		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lead (Pb)-Total	0.022		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Magnesium (Mg)-Total	202		0.40	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Manganese (Mn)-Total	2.22		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Molybdenum (Mo)-Total	0.195		0.0080	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Nickel (Ni)-Total	0.042		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Phosphorus (P)-Total	3910		2.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Potassium (K)-Total	3150		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Rubidium (Rb)-Total	12.0		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Selenium (Se)-Total	1.24		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Sodium (Na)-Total	1090		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Strontium (Sr)-Total	0.386		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Thallium (Tl)-Total	0.0533		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Uranium (U)-Total	0.00057		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zinc (Zn)-Total	43.5		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-16 14 LDS LKTR 6M							
Sampled By: CLIENT on 20-AUG-14 @ 14:30							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	74.2		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.188		0.0060	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.0266		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	1.04		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0199		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	127		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0593		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.193		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	3.65		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0051		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	295		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.128		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2700		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4360		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	10.1		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.203		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	255		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.145		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00707		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.56		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-18 14 LDS LKTR 6L							
Sampled By: CLIENT on 20-AUG-14 @ 14:30							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	71.0		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.180		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0664		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	1.41		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	0.0021	RRU	0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0452		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.040		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-18 14 LDS LKTR 6L							
Sampled By: CLIENT on 20-AUG-14 @ 14:30							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.161		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	409		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0346		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.048		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.145		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	19.8		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	469		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.125		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	197		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	2.22		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.237		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	0.043		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	4410		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	3330		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	9.25		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	2.18		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	1310		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.624		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0944		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	0.00114		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	40.4		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-19 14 LDS LKTR 7M							
Sampled By: CLIENT on 20-AUG-14 @ 09:17							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	73.7		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.149		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0209		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.95		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0186		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	114		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0541		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.219		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	2.39		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0113		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-19 14 LDS LKTR 7M							
Sampled By: CLIENT on 20-AUG-14 @ 09:17							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Magnesium (Mg)-Total	298		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.110		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2780		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4490		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	14.6		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.167		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	290		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.168		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00655		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.46		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-21 14 LDS LKTR 7L							
Sampled By: CLIENT on 20-AUG-14 @ 09:17							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	68.2		0.10	%		10-OCT-14	R2991012
Mercury (Hg)-Total	0.0876		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R2999610
Methyl Mercury	0.0585		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	<1.0		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Arsenic (As)-Total	0.0451		0.0060	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Barium (Ba)-Total	0.032		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cadmium (Cd)-Total	0.0894		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Calcium (Ca)-Total	306		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cesium (Cs)-Total	0.0277		0.0010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Chromium (Cr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cobalt (Co)-Total	0.0684		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Copper (Cu)-Total	19.6		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Iron (Fe)-Total	194		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lead (Pb)-Total	0.011		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Magnesium (Mg)-Total	204		0.40	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Manganese (Mn)-Total	2.11		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Molybdenum (Mo)-Total	0.185		0.0080	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Phosphorus (P)-Total	3850		2.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Potassium (K)-Total	3200		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Rubidium (Rb)-Total	13.6		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Selenium (Se)-Total	1.53		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Sodium (Na)-Total	970		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Strontium (Sr)-Total	0.293		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-21 14 LDS LKTR 7L							
Sampled By: CLIENT on 20-AUG-14 @ 09:17							
Matrix: Tissue							
Metals in Tissue by HR-ICPMS Micro (WET)							
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Thallium (Tl)-Total	0.0726		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zinc (Zn)-Total	41.1		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
L1508808-22 14 LDS LKTR 8M							
Sampled By: CLIENT on 20-AUG-14 @ 11:30							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	75.0		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.190		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0444		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	<0.40		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0440		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	200		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0945		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.314		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	2.53		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	275		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.108		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2790		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4630		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	20.5		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.127		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	316		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.359		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00885		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.82		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-24 14 LDS LKTR 8L							
Sampled By: CLIENT on 20-AUG-14 @ 11:30							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	76.1		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.257		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.102		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	<0.40		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0467		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.0599		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	123		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0691		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0338		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	12.7		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	93.9		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0047		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	230		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	1.73		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.0800		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	4520		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4560		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	24.8		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.562		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	713		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.193		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.177		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	33.0		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-25 14 LDS LKTR 9M							
Sampled By: CLIENT on 20-AUG-14 @ 12:45							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	68.5		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.120		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0293		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	<0.40		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0742		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-25 14 LDS LKTR 9M							
Sampled By: CLIENT on 20-AUG-14 @ 12:45							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	240		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0654		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.028		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.314		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	4.79		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0072		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	337		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.167		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.0089		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2940		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4470		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	18.9		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.155		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	348		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.420		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0111		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	5.59		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-27 14 LDS LKTR 9L							
Sampled By: CLIENT on 20-AUG-14 @ 12:45							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	69.0		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.177		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0853		0.0010	mg/kg wwt		12-OCT-14	R2995648
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	1.00		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.142		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.020		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.158		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	224		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0324		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.068		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0826		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	31.4		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	60.2		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0058		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-27 14 LDS LKTR 9L							
Sampled By: CLIENT on 20-AUG-14 @ 12:45							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Magnesium (Mg)-Total	175		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	1.67		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.192		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	0.405		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	3770		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	2960		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	15.4		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	1.34		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	1370		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.289		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0724		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	0.00154		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	40.3		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-28 14 LDS LKTR 10M							
Sampled By: CLIENT on 20-AUG-14 @ 12:50							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	72.2		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.148		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0183		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.99		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0391		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.014		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	121		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0881		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0065		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.285		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	3.86		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0054		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	266		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.114		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2470		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	3960		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	18.1		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.145		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	338		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.225		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-28 14 LDS LKTR 10M							
Sampled By: CLIENT on 20-AUG-14 @ 12:50							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00661		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.39		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-30 14 LDS LKTR 10L							
Sampled By: CLIENT on 20-AUG-14 @ 12:50							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	75.6		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.157		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0482		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.57		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0298		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.013		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.0420		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	153		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0653		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0416		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	14.9		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	18.1		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	245		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	2.59		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.0617		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	5000		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4620		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	35.1		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.659		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	1110		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.271		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.194		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	29.7		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-31 14 LDS LKTR 11M							
Sampled By: CLIENT on 20-AUG-14 @ 13:13							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	76.0		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.169		0.0070	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.0155		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.61		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0163		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	127		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0586		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.340		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	2.70		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	283		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.108		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2840		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4520		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	15.7		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.147		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	263		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.229		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00599		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.63		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-33 14 LDS LKTR 11L							
Sampled By: CLIENT on 20-AUG-14 @ 13:13							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	63.0		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.132		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0528		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	1.29		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0708		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.022		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-33 14 LDS LKTR 11L							
Sampled By: CLIENT on 20-AUG-14 @ 13:13							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.0413		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	187		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0342		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.013		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0829		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	21.7		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	76.6		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	165		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	1.66		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.156		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	3740		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	2690		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	13.8		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	1.05		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	1320		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.266		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0395		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	33.8		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-34 14 LDS LKTR 12M							
Sampled By: CLIENT on 20-AUG-14 @ 15:30							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	75.7		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.241		0.0070	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.0266		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	<0.40		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0294		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	126		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0730		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.318		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	2.74		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-34 14 LDS LKTR 12M							
Sampled By: CLIENT on 20-AUG-14 @ 15:30							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Magnesium (Mg)-Total	283		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.109		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2670		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4440		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	14.6		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.166		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	253		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.175		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00674		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	4.23		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-36 14 LDS LKTR 12L							
Sampled By: CLIENT on 20-AUG-14 @ 15:30							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	60.5		0.10	%		10-OCT-14	R2991012
Mercury (Hg)-Total	0.202		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R2999610
Methyl Mercury	0.134		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	1.2		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Arsenic (As)-Total	0.0519		0.0060	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Barium (Ba)-Total	0.030		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cadmium (Cd)-Total	0.0753		0.0020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Calcium (Ca)-Total	359		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cesium (Cs)-Total	0.0385		0.0010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Chromium (Cr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Cobalt (Co)-Total	0.0539		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Copper (Cu)-Total	14.3		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Iron (Fe)-Total	36.0		1.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lead (Pb)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Magnesium (Mg)-Total	187		0.40	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Manganese (Mn)-Total	2.32		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Molybdenum (Mo)-Total	0.185		0.0080	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Nickel (Ni)-Total	0.057		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Phosphorus (P)-Total	3620		2.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Potassium (K)-Total	2560		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Rubidium (Rb)-Total	12.3		0.010	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Selenium (Se)-Total	1.15		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Sodium (Na)-Total	1310		4.0	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Strontium (Sr)-Total	0.299		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-36 14 LDS LKTR 12L							
Sampled By: CLIENT on 20-AUG-14 @ 15:30							
Matrix: Tissue							
Metals in Tissue by HR-ICPMS Micro (WET)							
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Thallium (Tl)-Total	0.0813		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Uranium (U)-Total	0.00066		0.00040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zinc (Zn)-Total	39.4		0.20	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	04-NOV-14	R3052309
L1508808-37 14 LDS LKTR 13M							
Sampled By: CLIENT on 20-AUG-14 @ 10:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	75.4		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.176		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0148		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	<0.40		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0384		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	125		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0663		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.298		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	2.13		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	303		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.142		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2790		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4510		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	14.1		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.166		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	279		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.203		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00656		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.57		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-39 14 LDS LKTR 13L							
Sampled By: CLIENT on 20-AUG-14 @ 10:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	64.1		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.165		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0444		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	2.51		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0699		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.050		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	0.0025		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.0870		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	236		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0289		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.026		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.128		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	45.9		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	141		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0086		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	200		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	1.58		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.154		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	0.059		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	4240		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	3370		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	12.7		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	1.24		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	1070		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.311		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0524		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	0.00070		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	47.8		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-40 14 LDS LKTR 14M							
Sampled By: CLIENT on 20-AUG-14 @ 10:15							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	73.8		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.186		0.0070	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.0158		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	<0.40		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0367		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-40 14 LDS LKTR 14M							
Sampled By: CLIENT on 20-AUG-14 @ 10:15							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	142		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0617		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0057		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.393		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	3.02		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	304		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.119		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2990		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4590		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	16.3		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.150		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	330		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.219		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00647		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	4.35		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-42 14 LDS LKTR 14L							
Sampled By: CLIENT on 20-AUG-14 @ 10:15							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	52.7		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.179		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0783		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.47		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0806		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.029		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.0528		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	347		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0192		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0700		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	18.7		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	64.1		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-42 14 LDS LKTR 14L							
Sampled By: CLIENT on 20-AUG-14 @ 10:15							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Magnesium (Mg)-Total	136		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	1.18		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.125		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2960		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	2230		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	10.6		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	1.02		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	1360		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.390		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0334		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	30.1		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-43 14 LDS LKTR 15M							
Sampled By: CLIENT on 20-AUG-14 @ 11:20							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	74.4		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.145		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0124		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	<0.40		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0185		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	80.3		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0525		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.255		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	1.54		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	309		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.106		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2820		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4560		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	15.2		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.169		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	276		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.118		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-43 14 LDS LKTR 15M							
Sampled By: CLIENT on 20-AUG-14 @ 11:20							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00446		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.96		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-45 14 LDS LKTR 15L							
Sampled By: CLIENT on 20-AUG-14 @ 11:20							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	64.2		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.123		0.0010	mg/kg wwt	15-OCT-14	18-OCT-14	R3000949
Methyl Mercury	0.0429		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.73		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0687		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.053		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	0.0021		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.0410		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	249		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0207		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.022		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0558		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	46.3		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	40.1		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0056		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	174		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	1.59		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.134		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	3740		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	2630		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	10.4		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	1.15		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	1520		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.362		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0367		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	46.8		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-46 14 LDS LKTR 16M							
Sampled By: CLIENT on 20-AUG-14 @ 14:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	77.5		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.586		0.011	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.0588		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	<0.40		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0218		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	127		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.108		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0060		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.194		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	2.37		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0155		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	292		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.157		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2560		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4460		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	18.2		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.125		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	387		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.152		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00697		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.02		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-48 14 LDS LKTR 16L							
Sampled By: CLIENT on 20-AUG-14 @ 14:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	76.9		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.779		0.0090	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.156		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.70		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0219		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-48 14 LDS LKTR 16L							
Sampled By: CLIENT on 20-AUG-14 @ 14:00							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.117		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	124		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0690		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.033		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.0443		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	2.48		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	120		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0043		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	233		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	1.74		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.0920		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	0.052		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	4630		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4290		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	29.3		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.702		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	1260		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.145		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.233		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	0.00106		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	24.0		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-49 14 LDS LKTR 17M							
Sampled By: CLIENT on 20-AUG-14 @ 14:00							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	73.0		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.275		0.0060	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.0300		0.0010	mg/kg wwt		12-OCT-14	R3003930
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.47		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0638		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.015		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	174		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0690		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.328		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	3.54		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0092		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-49 14 LDS LKTR 17M							
Sampled By: CLIENT on 20-AUG-14 @ 14:00							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Magnesium (Mg)-Total	267		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.217		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2650		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	4220		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	14.3		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.156		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	323		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.301		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00677		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	5.22		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-51 14 LDS LKTR 17L							
Sampled By: CLIENT on 20-AUG-14 @ 14:05							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	73.9		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.537		0.012	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.149		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.65		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0463		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.015		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.0688		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	155		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0526		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.032		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.103		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	16.7		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	101		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0051		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	172		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	1.28		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.171		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	0.050		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	3590		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	3180		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	15.6		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	1.17		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	1480		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.301		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-51 14 LDS LKTR 17L							
Sampled By: CLIENT on 20-AUG-14 @ 14:05							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0691		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	0.00041		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	35.8		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
L1508808-52 14 LDS LKTR 18M							
Sampled By: CLIENT on 20-AUG-14 @ 14:10							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	73.1		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.265		0.010	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.109		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.62		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0464		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.022		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	137		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0672		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	0.245		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	2.34		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0245		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	268		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	0.176		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	2320		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	3910		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	13.1		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	0.153		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	332		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.185		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.00803		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	3.24		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1508808-54 14 LDS LKTR 18L							
Sampled By: CLIENT on 20-AUG-14 @ 14:10							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	62.5		0.10	%		15-OCT-14	R2994191
Mercury (Hg)-Total	0.318		0.010	mg/kg wwt	15-OCT-14	19-OCT-14	R3001404
Methyl Mercury	0.0492		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	1.47		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Arsenic (As)-Total	0.0188		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Barium (Ba)-Total	0.021		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Bismuth (Bi)-Total	0.0024		0.0020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Boron (B)-Total	<0.20		0.20	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cadmium (Cd)-Total	0.209		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Calcium (Ca)-Total	181		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cesium (Cs)-Total	0.0371		0.0010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Chromium (Cr)-Total	0.026		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Cobalt (Co)-Total	0.246		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Copper (Cu)-Total	34.3		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Iron (Fe)-Total	242		0.60	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lead (Pb)-Total	0.0043		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Magnesium (Mg)-Total	176		0.40	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Manganese (Mn)-Total	1.43		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Molybdenum (Mo)-Total	0.220		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Phosphorus (P)-Total	3460		2.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Potassium (K)-Total	3350		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Rubidium (Rb)-Total	14.6		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Selenium (Se)-Total	1.73		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Sodium (Na)-Total	839		4.0	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Strontium (Sr)-Total	0.227		0.010	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Thallium (Tl)-Total	0.0613		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Uranium (U)-Total	0.00119		0.00040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zinc (Zn)-Total	40.9		0.10	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	15-OCT-14	17-OCT-14	R3003112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
RRU	Reported Result is Uncertain due to proximity to the estimated Method Detection Limit.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-MEHG-WET-GCAFS-VA	Tissue	Methyl Mercury in Tissue by GCAFS (WET)	EPA 1630

This procedure is carried out using a method published by Liang, Bloom, and Horvat (1994), using instrumental conditions adopted from draft US EPA Method 1630. Tissue samples are digested with methanol and potassium hydroxide. A portion of the digestate is analyzed by aqueous phase ethylation and purge and trap, followed by capillary gas chromatography. Highly selective and sensitive detection is achieved by Atomic Fluorescence Spectrometry (AFS) after pyrolytic decomposition of the GC eluent. Results are reported "as MeHg".

HG-WET-CVAFS-VA	Tissue	Mercury in Tissue by CVAFS (WET)	EPA 200.3, EPA 245.7

This method is adapted from US EPA Method 200.3 "Sample Procedures for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues" (1996). Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with repeated additions of hydrogen peroxide. Analysis is by atomic fluorescence spectrophotometry or atomic absorption spectrophotometry, adapted from US EPA Method 245.7. This digestion procedure was implemented on October 5, 2009.

HG-WET-MICR-CVAF-VA	Tissue	Mercury in Tissue by CVAFS Micro (WET)	EPA 200.3, EPA 245.7

This method is adapted from US EPA Method 200.3 "Sample Procedures for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues" (1996). Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with repeated additions of hydrogen peroxide. Analysis is by atomic fluorescence spectrophotometry or atomic absorption spectrophotometry, adapted from US EPA Method 245.7.

MET-WET-CCMS-VA	Tissue	Metals in Tissue by CRC ICPMS (WET)	EPA 200.3/6020A

This method is adapted from US EPA Method 200.3 "Sample Procedures for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues" (1996). Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with repeated additions of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.

MET-WET-MICR-HRMS-VA	Tissue	Metals in Tissue by HR-ICPMS Micro (WET)	EPA 200.3/200.8

Trace metals in tissue are analyzed by high resolution inductively coupled plasma mass spectrometry (HR-ICPMS) modified from US EPA Method 200.8, (Revision 5.5). The sample preparation procedure is modified from US EPA 200.3. Analytical results are reported on wet weight basis.

Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.

MOISTURE-TISS-VA	Tissue	% Moisture in Tissues	ASTM D2974-00 Method A

This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

JAYLDS001

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
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
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
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.

Quality Control Report

Workorder: L1508808 Report Date: 06-NOV-14

Client: Golder Associates Ltd.
1721 8th STREET EAST
SASKATOON SK S7H 0T4
Contact: BLAIR HERSIKORN

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-MEHG-WET-GCAFS-VA	**Tissue**							
Batch	**R2995648**							
WG1975203-3	**CRM**	**VA-NRC-TORT3**						
Methyl Mercury			87.6		%		70-130	12-OCT-14
WG1975203-4	**CRM**	**VA-NRC-DORM4**						
Methyl Mercury			86.9		%		70-130	12-OCT-14
WG1975203-5	**DUP**	**L1508808-13**						
Methyl Mercury		0.0172	0.0225		mg/kg wwt	27	40	12-OCT-14
WG1975203-2	**LCS**							
Methyl Mercury			111.3		%		70-130	12-OCT-14
WG1975203-1	**MB**							
Methyl Mercury			<0.0010		mg/kg wwt		0.001	12-OCT-14
Batch	**R3003048**							
WG1977330-4	**CRM**	**VA-NRC-TORT3**						
Methyl Mercury			94.8		%		70-130	17-OCT-14
WG1977330-5	**CRM**	**VA-NRC-DORM4**						
Methyl Mercury			74.9		%		70-130	17-OCT-14
WG1977330-3	**LCS**							
Methyl Mercury			85.4		%		70-130	17-OCT-14
WG1977330-1	**MB**							
Methyl Mercury			<0.0010		mg/kg wwt		0.001	17-OCT-14
WG1977330-2	**MB**							
Methyl Mercury			<0.0010		mg/kg wwt		0.001	17-OCT-14
Batch	**R3003930**							
WG1977429-3	**CRM**	**VA-NRC-TORT3**						
Methyl Mercury			78.2		%		70-130	12-OCT-14
WG1977429-4	**CRM**	**VA-NRC-DORM4**						
Methyl Mercury			75.8		%		70-130	12-OCT-14
WG1977429-5	**DUP**	**L1508808-48**						
Methyl Mercury		0.156	0.126		mg/kg wwt	22	40	12-OCT-14
WG1977429-2	**LCS**							
Methyl Mercury			104.3		%		70-130	12-OCT-14
WG1977429-1	**MB**							
Methyl Mercury			<0.0010		mg/kg wwt		0.001	12-OCT-14
Batch	**R3012828**							
WG1979312-3	**CRM**	**VA-NRC-TORT3**						
Methyl Mercury			85.3		%		70-130	21-OCT-14
WG1979312-4	**CRM**	**VA-NRC-DORM4**						
Methyl Mercury			95.7		%		70-130	21-OCT-14
WG1979312-2	**LCS**							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-MEHG-WET-GCAFS-VA	**Tissue**							
Batch R3012828								
WG1979312-2 LCS								
Methyl Mercury			125.1		%		70-130	21-OCT-14
WG1979312-1 MB								
Methyl Mercury			<0.0010		mg/kg wwt		0.001	21-OCT-14
HG-WET-CVAFS-VA	**Tissue**							
Batch R3000949								
WG1974236-5 CRM		**VA-NRC-TORT3**						
Mercury (Hg)-Total			123.2		%		70-130	18-OCT-14
WG1974236-4 DUP		**L1508808-25**						
Mercury (Hg)-Total		0.120	0.117		mg/kg wwt	3.0	40	18-OCT-14
WG1974236-1 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	18-OCT-14
WG1974236-2 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	18-OCT-14
Batch R3001404								
WG1974236-6 CRM		**VA-NRC-TORT3**						
Mercury (Hg)-Total			103.7		%		70-130	19-OCT-14
WG1974236-3 DUP		**L1508808-48**						
Mercury (Hg)-Total		0.779	0.699		mg/kg wwt	11	40	19-OCT-14
HG-WET-MICR-CVAF-VA	**Tissue**							
Batch R2999610								
WG1971486-5 CRM		**VA-NRC-TORT3**						
Mercury (Hg)-Total			87.6		%		70-130	17-OCT-14
WG1971486-6 CRM		**VA-NIST-1566B**						
Mercury (Hg)-Total			105.1		%		70-130	17-OCT-14
WG1971486-4 DUP		**L1508808-15**						
Mercury (Hg)-Total		0.123	0.121		mg/kg wwt	1.2	30	17-OCT-14
WG1971486-1 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	17-OCT-14
WG1971486-2 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	17-OCT-14
WG1971486-3 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	17-OCT-14
MET-WET-CCMS-VA	**Tissue**							
Batch R3003112								
WG1974236-5 CRM		**VA-NRC-TORT3**						
Arsenic (As)-Total			114.0		%		70-130	17-OCT-14
Cadmium (Cd)-Total			103.6		%		70-130	17-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-CCMS-VA	**Tissue**							
Batch R3003112								
WG1974236-5 CRM		**VA-NRC-TORT3**						
Chromium (Cr)-Total			91.8		%		70-130	17-OCT-14
Cobalt (Co)-Total			105.1		%		70-130	17-OCT-14
Copper (Cu)-Total			93.6		%		70-130	17-OCT-14
Iron (Fe)-Total			97.3		%		70-130	17-OCT-14
Lead (Pb)-Total			88.9		%		70-130	17-OCT-14
Manganese (Mn)-Total			97.4		%		70-130	17-OCT-14
Molybdenum (Mo)-Total			100.9		%		70-130	17-OCT-14
Nickel (Ni)-Total			95.8		%		70-130	17-OCT-14
Selenium (Se)-Total			101.6		%		70-130	17-OCT-14
Strontium (Sr)-Total			97.3		%		70-130	17-OCT-14
Vanadium (V)-Total			101.1		%		70-130	17-OCT-14
Zinc (Zn)-Total			92.3		%		70-130	17-OCT-14
WG1974236-6 CRM		**VA-NRC-TORT3**						
Arsenic (As)-Total			110.7		%		70-130	17-OCT-14
Cadmium (Cd)-Total			98.3		%		70-130	17-OCT-14
Chromium (Cr)-Total			100.0		%		70-130	17-OCT-14
Cobalt (Co)-Total			103.2		%		70-130	17-OCT-14
Copper (Cu)-Total			90.8		%		70-130	17-OCT-14
Iron (Fe)-Total			95.7		%		70-130	17-OCT-14
Lead (Pb)-Total			88.1		%		70-130	17-OCT-14
Manganese (Mn)-Total			94.0		%		70-130	17-OCT-14
Molybdenum (Mo)-Total			98.9		%		70-130	17-OCT-14
Nickel (Ni)-Total			97.5		%		70-130	17-OCT-14
Selenium (Se)-Total			96.6		%		70-130	17-OCT-14
Strontium (Sr)-Total			94.8		%		70-130	17-OCT-14
Vanadium (V)-Total			99.9		%		70-130	17-OCT-14
Zinc (Zn)-Total			88.9		%		70-130	17-OCT-14
WG1974236-3 DUP		**L1508808-48**						
Aluminum (Al)-Total		0.70	0.65		mg/kg wwt	7.9	40	17-OCT-14
Antimony (Sb)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Arsenic (As)-Total		0.0219	0.0197		mg/kg wwt	11	40	17-OCT-14
Barium (Ba)-Total		0.010	0.012		mg/kg wwt	15	40	17-OCT-14
Beryllium (Be)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Bismuth (Bi)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Boron (B)-Total		<0.20	<0.20	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-CCMS-VA	**Tissue**							
Batch R3003112								
WG1974236-3 DUP		**L1508808-48**						
Cadmium (Cd)-Total		0.117	0.112		mg/kg wwt	4.5	40	17-OCT-14
Calcium (Ca)-Total		124	118		mg/kg wwt	4.7	60	17-OCT-14
Cesium (Cs)-Total		0.0690	0.0671		mg/kg wwt	2.8	40	17-OCT-14
Chromium (Cr)-Total		0.033	0.034		mg/kg wwt	0.5	40	17-OCT-14
Cobalt (Co)-Total		0.0443	0.0414		mg/kg wwt	6.7	40	17-OCT-14
Copper (Cu)-Total		2.48	2.43		mg/kg wwt	2.3	40	17-OCT-14
Iron (Fe)-Total		120	122		mg/kg wwt	1.7	40	17-OCT-14
Lead (Pb)-Total		0.0043	<0.0040	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Lithium (Li)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Magnesium (Mg)-Total		233	228		mg/kg wwt	1.9	40	17-OCT-14
Manganese (Mn)-Total		1.74	1.71		mg/kg wwt	1.9	40	17-OCT-14
Molybdenum (Mo)-Total		0.0920	0.0878		mg/kg wwt	4.7	40	17-OCT-14
Nickel (Ni)-Total		0.052	0.048		mg/kg wwt	7.0	40	17-OCT-14
Phosphorus (P)-Total		4630	4440		mg/kg wwt	4.1	40	17-OCT-14
Potassium (K)-Total		4290	4250		mg/kg wwt	0.7	40	17-OCT-14
Rubidium (Rb)-Total		29.3	29.0		mg/kg wwt	1.1	40	17-OCT-14
Selenium (Se)-Total		0.702	0.697		mg/kg wwt	0.7	40	17-OCT-14
Sodium (Na)-Total		1260	1240		mg/kg wwt	1.2	40	17-OCT-14
Strontium (Sr)-Total		0.145	0.139		mg/kg wwt	4.2	60	17-OCT-14
Tellurium (Te)-Total		<0.0040	<0.0040	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Thallium (Tl)-Total		0.233	0.225		mg/kg wwt	3.5	40	17-OCT-14
Tin (Sn)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Uranium (U)-Total		0.00106	0.00094		mg/kg wwt	11	40	17-OCT-14
Vanadium (V)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Zinc (Zn)-Total		24.0	23.3		mg/kg wwt	2.9	40	17-OCT-14
Zirconium (Zr)-Total		<0.040	<0.040	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
WG1974236-4 DUP		**L1508808-25**						
Aluminum (Al)-Total		<0.40	<0.40	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Antimony (Sb)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Arsenic (As)-Total		0.0742	0.0656		mg/kg wwt	12	40	17-OCT-14
Barium (Ba)-Total		<0.010	<0.010	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Beryllium (Be)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Bismuth (Bi)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Boron (B)-Total		<0.20	<0.20	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-CCMS-VA	**Tissue**							
Batch R3003112								
WG1974236-4 DUP		**L1508808-25**						
Cadmium (Cd)-Total		<0.0010	<0.0010	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Calcium (Ca)-Total		240	197		mg/kg wwt	20	60	17-OCT-14
Cesium (Cs)-Total		0.0654	0.0625		mg/kg wwt	4.7	40	17-OCT-14
Chromium (Cr)-Total		0.028	<0.010	DUP-H	mg/kg wwt	N/A	40	17-OCT-14
Cobalt (Co)-Total		<0.0040	<0.0040	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Copper (Cu)-Total		0.314	0.274		mg/kg wwt	14	40	17-OCT-14
Iron (Fe)-Total		4.79	3.68		mg/kg wwt	26	40	17-OCT-14
Lead (Pb)-Total		0.0072	<0.0040	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Lithium (Li)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Magnesium (Mg)-Total		337	265		mg/kg wwt	24	40	17-OCT-14
Manganese (Mn)-Total		0.167	0.125		mg/kg wwt	29	40	17-OCT-14
Molybdenum (Mo)-Total		0.0089	<0.0040	DUP-H	mg/kg wwt	N/A	40	17-OCT-14
Nickel (Ni)-Total		<0.040	<0.040	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Phosphorus (P)-Total		2940	2500		mg/kg wwt	16	40	17-OCT-14
Potassium (K)-Total		4470	3920		mg/kg wwt	13	40	17-OCT-14
Rubidium (Rb)-Total		18.9	16.4		mg/kg wwt	14	40	17-OCT-14
Selenium (Se)-Total		0.155	0.155		mg/kg wwt	0.3	40	17-OCT-14
Sodium (Na)-Total		348	306		mg/kg wwt	13	40	17-OCT-14
Strontium (Sr)-Total		0.420	0.349		mg/kg wwt	19	60	17-OCT-14
Tellurium (Te)-Total		<0.0040	<0.0040	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Thallium (Tl)-Total		0.0111	0.00998		mg/kg wwt	11	40	17-OCT-14
Tin (Sn)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Uranium (U)-Total		<0.00040	<0.00040	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Vanadium (V)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
Zinc (Zn)-Total		5.59	4.70		mg/kg wwt	17	40	17-OCT-14
Zirconium (Zr)-Total		<0.040	<0.040	RPD-NA	mg/kg wwt	N/A	40	17-OCT-14
WG1974236-1 MB								
Aluminum (Al)-Total			<0.40		mg/kg wwt		0.4	17-OCT-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	17-OCT-14
Arsenic (As)-Total			<0.0040		mg/kg wwt		0.004	17-OCT-14
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	17-OCT-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	17-OCT-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	17-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-CCMS-VA	**Tissue**							
Batch R3003112								
WG1974236-1 MB								
Cadmium (Cd)-Total			<0.0010		mg/kg wwt		0.001	17-OCT-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	17-OCT-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	17-OCT-14
Chromium (Cr)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	17-OCT-14
Copper (Cu)-Total			<0.020		mg/kg wwt		0.02	17-OCT-14
Iron (Fe)-Total			<0.60		mg/kg wwt		0.6	17-OCT-14
Lead (Pb)-Total			<0.0040		mg/kg wwt		0.004	17-OCT-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	17-OCT-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	17-OCT-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Molybdenum (Mo)-Total			<0.0040		mg/kg wwt		0.004	17-OCT-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	17-OCT-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	17-OCT-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	17-OCT-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Selenium (Se)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	17-OCT-14
Strontium (Sr)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	17-OCT-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	17-OCT-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	17-OCT-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	17-OCT-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	17-OCT-14
Zinc (Zn)-Total			<0.10		mg/kg wwt		0.1	17-OCT-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	17-OCT-14
WG1974236-2 MB								
Aluminum (Al)-Total			<0.40		mg/kg wwt		0.4	17-OCT-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	17-OCT-14
Arsenic (As)-Total			<0.0040		mg/kg wwt		0.004	17-OCT-14
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	17-OCT-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	17-OCT-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	17-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-CCMS-VA	**Tissue**							
Batch R3003112								
WG1974236-2 MB								
Cadmium (Cd)-Total			<0.0010		mg/kg wwt		0.001	17-OCT-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	17-OCT-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	17-OCT-14
Chromium (Cr)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	17-OCT-14
Copper (Cu)-Total			<0.020		mg/kg wwt		0.02	17-OCT-14
Iron (Fe)-Total			<0.60		mg/kg wwt		0.6	17-OCT-14
Lead (Pb)-Total			<0.0040		mg/kg wwt		0.004	17-OCT-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	17-OCT-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	17-OCT-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Molybdenum (Mo)-Total			<0.0040		mg/kg wwt		0.004	17-OCT-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	17-OCT-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	17-OCT-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	17-OCT-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Selenium (Se)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	17-OCT-14
Strontium (Sr)-Total			<0.010		mg/kg wwt		0.01	17-OCT-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	17-OCT-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	17-OCT-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	17-OCT-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	17-OCT-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	17-OCT-14
Zinc (Zn)-Total			<0.10		mg/kg wwt		0.1	17-OCT-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	17-OCT-14
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch R3052309								
WG1971486-5 CRM		**VA-NRC-TORT3**						
Arsenic (As)-Total			121.9		%		70-130	04-NOV-14
Cadmium (Cd)-Total			104.0		%		70-130	04-NOV-14
Chromium (Cr)-Total			91.6		%		70-130	04-NOV-14
Cobalt (Co)-Total			80.2		%		70-130	04-NOV-14
Copper (Cu)-Total			85.5		%		70-130	04-NOV-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch **R3052309**								
WG1971486-5 **CRM**		**VA-NRC-TORT3**						
Iron (Fe)-Total			96.8		%		70-130	04-NOV-14
Lead (Pb)-Total			73.1		%		70-130	04-NOV-14
Manganese (Mn)-Total			109.0		%		70-130	04-NOV-14
Molybdenum (Mo)-Total			94.2		%		70-130	04-NOV-14
Nickel (Ni)-Total			106.9		%		70-130	04-NOV-14
Selenium (Se)-Total			90.2		%		70-130	04-NOV-14
Strontium (Sr)-Total			108.4		%		70-130	04-NOV-14
Vanadium (V)-Total			129.5		%		70-130	04-NOV-14
Zinc (Zn)-Total			108.4		%		70-130	04-NOV-14
WG1971486-6 **CRM**		**VA-NIST-1566B**						
Antimony (Sb)-Total			0.0080		mg/kg wwt		0.001-0.021	04-NOV-14
Arsenic (As)-Total			96.4		%		70-130	04-NOV-14
Barium (Ba)-Total			92.2		%		70-130	04-NOV-14
Boron (B)-Total			109.3		%		70-130	04-NOV-14
Cadmium (Cd)-Total			120.4		%		70-130	04-NOV-14
Calcium (Ca)-Total			115.5		%		70-130	04-NOV-14
Cobalt (Co)-Total			84.1		%		70-130	04-NOV-14
Copper (Cu)-Total			100.5		%		70-130	04-NOV-14
Iron (Fe)-Total			105.4		%		70-130	04-NOV-14
Lead (Pb)-Total			93.0		%		70-130	04-NOV-14
Magnesium (Mg)-Total			108.3		%		70-130	04-NOV-14
Manganese (Mn)-Total			117.4		%		70-130	04-NOV-14
Nickel (Ni)-Total			118.7		%		70-130	04-NOV-14
Potassium (K)-Total			95.3		%		70-130	04-NOV-14
Rubidium (Rb)-Total			98.9		%		70-130	04-NOV-14
Selenium (Se)-Total			108.0		%		70-130	04-NOV-14
Sodium (Na)-Total			94.0		%		70-130	04-NOV-14
Strontium (Sr)-Total			126.6		%		70-130	04-NOV-14
Uranium (U)-Total			120.3		%		70-130	04-NOV-14
Vanadium (V)-Total			81.6		%		70-130	04-NOV-14
Zinc (Zn)-Total			102.3		%		70-130	04-NOV-14
WG1971486-4 **DUP**		**L1508808-15**						
Aluminum (Al)-Total		<1.0	1.1	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
Antimony (Sb)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
Arsenic (As)-Total		0.0425	0.0456		mg/kg wwt	7.0	40	04-NOV-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3052309**							
WG1971486-4	**DUP**	**L1508808-15**						
Barium (Ba)-Total		0.042	0.056		mg/kg wwt	28	40	04-NOV-14
Beryllium (Be)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
Bismuth (Bi)-Total		0.0028	0.0033		mg/kg wwt	16	40	04-NOV-14
Boron (B)-Total		<0.20	<0.20	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
Cadmium (Cd)-Total		0.0575	0.0555		mg/kg wwt	3.5	40	04-NOV-14
Calcium (Ca)-Total		439	414		mg/kg wwt	6.0	60	04-NOV-14
Cesium (Cs)-Total		0.0347	0.0348		mg/kg wwt	0.4	40	04-NOV-14
Chromium (Cr)-Total		<0.040	<0.040	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
Cobalt (Co)-Total		0.0753	0.0783		mg/kg wwt	4.0	40	04-NOV-14
Copper (Cu)-Total		19.2	19.1		mg/kg wwt	0.2	40	04-NOV-14
Iron (Fe)-Total		58.7	58.0		mg/kg wwt	1.2	40	04-NOV-14
Lead (Pb)-Total		0.022	0.026		mg/kg wwt	16	40	04-NOV-14
Lithium (Li)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
Magnesium (Mg)-Total		202	207		mg/kg wwt	2.3	40	04-NOV-14
Manganese (Mn)-Total		2.22	2.34		mg/kg wwt	5.2	40	04-NOV-14
Molybdenum (Mo)-Total		0.195	0.194		mg/kg wwt	0.5	40	04-NOV-14
Nickel (Ni)-Total		0.042	<0.040	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
Phosphorus (P)-Total		3910	4000		mg/kg wwt	2.4	40	04-NOV-14
Potassium (K)-Total		3150	3190		mg/kg wwt	1.2	40	04-NOV-14
Rubidium (Rb)-Total		12.0	12.2		mg/kg wwt	0.8	40	04-NOV-14
Selenium (Se)-Total		1.24	1.30		mg/kg wwt	4.9	40	04-NOV-14
Sodium (Na)-Total		1090	1080		mg/kg wwt	0.9	40	04-NOV-14
Strontium (Sr)-Total		0.386	0.394		mg/kg wwt	2.2	60	04-NOV-14
Tellurium (Te)-Total		<0.0040	<0.0040	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
Thallium (Tl)-Total		0.0533	0.0552		mg/kg wwt	3.5	40	04-NOV-14
Tin (Sn)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
Uranium (U)-Total		0.00057	0.00052		mg/kg wwt	9.9	40	04-NOV-14
Vanadium (V)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
Zinc (Zn)-Total		43.5	43.4		mg/kg wwt	0.2	40	04-NOV-14
Zirconium (Zr)-Total		<0.040	<0.040	RPD-NA	mg/kg wwt	N/A	40	04-NOV-14
WG1971486-1	**MB**							
Aluminum (Al)-Total			<1.0		mg/kg wwt		1	04-NOV-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Arsenic (As)-Total			<0.0060		mg/kg wwt		0.006	04-NOV-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3052309**							
WG1971486-1	**MB**							
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	04-NOV-14
Cadmium (Cd)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	04-NOV-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	04-NOV-14
Chromium (Cr)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	04-NOV-14
Copper (Cu)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
Iron (Fe)-Total			<1.0		mg/kg wwt		1	04-NOV-14
Lead (Pb)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	04-NOV-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	04-NOV-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Molybdenum (Mo)-Total			<0.0080		mg/kg wwt		0.008	04-NOV-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	04-NOV-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	04-NOV-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Selenium (Se)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	04-NOV-14
Strontium (Sr)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	04-NOV-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	04-NOV-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	04-NOV-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Zinc (Zn)-Total			<0.20		mg/kg wwt		0.2	04-NOV-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
WG1971486-2	**MB**							
Aluminum (Al)-Total			<1.0		mg/kg wwt		1	04-NOV-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Arsenic (As)-Total			<0.0060		mg/kg wwt		0.006	04-NOV-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3052309**							
WG1971486-2	**MB**							
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	04-NOV-14
Cadmium (Cd)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	04-NOV-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	04-NOV-14
Chromium (Cr)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	04-NOV-14
Copper (Cu)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
Iron (Fe)-Total			<1.0		mg/kg wwt		1	04-NOV-14
Lead (Pb)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	04-NOV-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	04-NOV-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Molybdenum (Mo)-Total			<0.0080		mg/kg wwt		0.008	04-NOV-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	04-NOV-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	04-NOV-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Selenium (Se)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	04-NOV-14
Strontium (Sr)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	04-NOV-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	04-NOV-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	04-NOV-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Zinc (Zn)-Total			<0.20		mg/kg wwt		0.2	04-NOV-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
WG1971486-3	**MB**							
Aluminum (Al)-Total			<1.0		mg/kg wwt		1	04-NOV-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Arsenic (As)-Total			<0.0060		mg/kg wwt		0.006	04-NOV-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch R3052309								
WG1971486-3 MB								
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	04-NOV-14
Cadmium (Cd)-Total			<0.0020		mg/kg wwt		0.002	04-NOV-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	04-NOV-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	04-NOV-14
Chromium (Cr)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	04-NOV-14
Copper (Cu)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
Iron (Fe)-Total			<1.0		mg/kg wwt		1	04-NOV-14
Lead (Pb)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	04-NOV-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	04-NOV-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Molybdenum (Mo)-Total			<0.0080		mg/kg wwt		0.008	04-NOV-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	04-NOV-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	04-NOV-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	04-NOV-14
Selenium (Se)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	04-NOV-14
Strontium (Sr)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	04-NOV-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	04-NOV-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	04-NOV-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	04-NOV-14
Zinc (Zn)-Total			<0.20		mg/kg wwt		0.2	04-NOV-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	04-NOV-14
MOISTURE-TISS-VA	**Tissue**							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-TISS-VA	**Tissue**							
Batch R2991012								
WG1971485-1 DUP		**L1508808-15**						
% Moisture		66.4	66.4		%	0.0	20	10-OCT-14
Batch R2994191								
WG1974256-5 DUP		**L1508808-48**						
% Moisture		76.9	77.1		%	0.2	20	15-OCT-14
WG1974256-6 DUP		**L1508808-25**						
% Moisture		68.5	71.4		%	4.2	20	15-OCT-14

Quality Control Report

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

ALS Environmental

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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

Affix ALS barcode label here (lab use only)

COC Number: JAYLDS001

Page 1 of 4

Report To		Report Format / Distribution		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Golder Associates Ltd	Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	R ☑ Regular (Standard TAT if received by 3 pm - business days)
Contact:	Blair Hersikorn	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:	1721 8th St. E Saskatoon SK, S7H 0T4	☐ 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:	306-221-1323	Email 1 or Fax	Blair_Hersikorn@Golder.com	Specify Date Required for E2,E or P:
		Email 2	Kerrie_Serben@Golder.com	

Invoice To		Invoice Distribution	
	Same as Report To ☑ Yes ☐ No	Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
	Copy of Invoice with Report ☐ Yes ☑ No	Email 1 or Fax	SASK-APinquiries@golder.com
Company:		Email 2	Blair_Hersikorn@Golder.com
Contact:			

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q45210	Approver ID:	Cost Center:
Job #:		GL Account:	Routing Code:
PO / AFE:	1407256 Phase 7042, Task 30	Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): L1508808 **ALS Contact:** Jessica Spira **Sampler:**

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	Hg-MeHg-Wet-GCAFS-Va	Hg-Wet-CVAFS-Va	Met-Wet-CCMS-Va	Moisture-Tiss-Va	Number of Containers
	14 LDS LKTR 1 M ~~14-URS-1-M~~	20 Aug 14		Tissue	✓	✓	✓	✓	1
	14 LDS LKTR 1 M ~~14-URS-1-L~~ Archive	20 Aug 14		Tissue					1
	14 LDS LKTR 1 L ~~14-LDS-1-M~~	20 Aug 14		Tissue	✓	✓	✓	✓	1
	14 LDS LKTR - 2M ~~14-LDS-1-T~~	20 Aug 14	1400	Tissue	✓	✓	✓	✓	1
	14 LDS LKTR - 2M Archive	20 Aug 14	1400						1
	14 LDS - LKTR - 2L	20 Aug 14	1400		✓	✓	✓	✓	1
	14 LDS LKTR - 3M	20 Aug 14	1430		✓	✓	✓	✓	1
	14 LDS LKTR - 3M Archive	20-Aug 14	1430						1
	14 LDS LKTR - 3L	20 Aug 14	1430		✓	✓	✓	✓	1
	14 LDS LKTR - 4M	21 Aug 14	0947		✓	✓	✓	✓	1
	14 LDS LKTR - 4M Archive	21 Aug 14	0947						1
	14 LDS LKTR 4L	21 Aug 14	0947		✓	✓	✓	✓	1
	14 LDS LKTR 5M	21 Aug 14			✓	✓	✓	✓	1
	14 LDS LKTR 5M Archive	21 Aug 14							1
	14 LDS LKTR 5L	21 Aug 14			✓	✓	✓	✓	1
	14 LDS LKTR - 6M	21 Aug 14	1450		✓	✓	✓	✓	1
	14 LDS LKTR - 6M Archive	21 Aug 14	1430						1

L1508808-COFC

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	Keep Samples Cool During Transit; Samples to be Analyzed in Vancouver Please contact Blair upon receipt of samples Thank You! Max 6°C Aug 5

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		

INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:
	26-Aug-14	1445			
Received by:	Date:	Time:			
	Aug 27	12:09pm			

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Affix ALS barcode label here
(lab use only)

COC Number: JAYLDS001

Report To		Report Format / Distribution		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Golder Associates Ltd	Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	R ☑ Regular (Standard TAT if received by 3 pm - business days)
Contact:	Blair Hersikorn	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:	1721 8th St. E	☐ 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
	Saskatoon SK, S7H 0T4	Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX	E2 ☐ Same day or weekend emergency - contact ALS to confirm TAT and surcharge
Phone:	306-221-1323	Email 1 or Fax	Blair_Hersikorn@Golder.com	Specify Date Required for E2,E or P:
		Email 2	Kerrie_Serben@Golder.com	

Invoice To		Invoice Distribution	
	Same as Report To ☑ Yes ☐ No	Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
	Copy of Invoice with Report ☐ Yes ☑ No	Email 1 or Fax	SASK-APinquiries@golder.com
Company:		Email 2	Blair_Hersikorn@Golder.com
Contact:			

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q45210	Approver ID:	Cost Center:
Job #:		GL Account:	Routing Code:
PO / AFE:	1407256 Phase 7042, Task 30	Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): L1508806 **ALS Contact:** Jessica Spira **Sampler:**

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	Hg-MeHg-Wet-GCAFS-Va	Hg-Wet-CVAFS-Va	Met-Wet-CCMS-Va	Moisture-Tiss-Va	Number of Containers
	14-LDS-LKTR-6L ~~14-URS-1-M~~	21 Aug-14	1430	Tissue	✓	✓	✓	✓	1
	14-LDS-LKTR-7M ~~14-URS-1-L~~	22 Aug 14	0917	Tissue	✓	✓	✓	✓	1
	14-LDS-LKTR-7M ~~14-LDS-1-M~~ Archive	22 Aug 14	0917	Tissue					1
	14-LDS-LKTR-7L ~~14-LDS-1-T~~	22 Aug 14	0917	Tissue	✓	✓	✓	✓	1
	14-LDS-LKTR-8M	22 Aug 14	1136		✓	✓	✓	✓	~~1~~
	14-LDS-LKTR-8M Archive	22 Aug 14	1136						~~1~~
	14-LDS-LKTR-8L	22 Aug 14	1136		✓	✓	✓	✓	~~1~~
	14-LDS-LKTR-9M ~~Arc~~	22 Aug 14	1245		✓	✓	✓	✓	~~1~~
	14-LDS-LKTR-9M Archive	22 Aug 14	1245						0
	14-LDS-LKTR-9L	22 Aug 14	1245		✓	✓	✓	✓	0
	14-LDS-LKTR-10M	22 Aug 14	1250		✓	✓	✓	✓	0
	14 LDS-LKTR-10M Archive	22 Aug 14	1250						0
	14 LDS-LKTR-10L	22 Aug 14	1250		✓	✓	✓	✓	0
	14 LDS-LKTR-11M	22 Aug 14	1313		✓	✓	✓	✓	0
	14 LDS-LKTR-11M Archive	22 Aug 14	1313						0
	14 LDS-LKTR-11L	22 Aug 14	1313		✓	✓	✓	✓	0
	14 LDS-LKTR-12M	22 Aug 14	1530	↓↓					0

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	Keep Samples Cool During Transit: Samples to be Analyzed in Vancouver
Are samples for human drinking water use? ☐ Yes ☑ No	Please contact Blair upon receipt of sample Thank You!

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		

Released by:	Date:	Time:	INITIAL SHIPMENT RECEPTION (lab use only) Received by:	Date:	Time:	FINAL SHIPMENT RECEPTION (lab use only) Received by:	Date:	Time:
KG Allen	26-Aug-14	1446						

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(lab use only)

COC Number: JAY LDS001

Page 3 of 4

Report To		Report Format / Distribution		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Golder Associates Ltd	Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	R ☑ Regular (Standard TAT if received by 3 pm - business days)
Contact:	Blair Hersikorn	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:	1721 8th St. E	☐ 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
	Saskatoon SK, S7H 0T4	Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX	E2 ☐ Same day or weekend emergency - contact ALS to confirm TAT and surcharge
Phone:	306-221-1323	Email 1 or Fax	Blair_Hersikorn@Golder.com	Specify Date Required for E2,E or P:
		Email 2	Kerrie_Serben@Golder.com	**Analysis Request**
Invoice To	Same as Report To ☑ Yes ☐ No	**Invoice Distribution**		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
	Copy of Invoice with Report ☐ Yes ☑ No	Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX	
Company:		Email 1 or Fax	SASK-APinquiries@golder.com	
Contact:		Email 2	Blair_Hersikorn@Golder.com	
Project Information		**Oil and Gas Required Fields (client use)**		
ALS Quote #:	Q45210	Approver ID:	Cost Center:	
Job #:		GL Account:	Routing Code:	
PO / AFE:	1407256 Phase 7042, Task 30	Activity Code:		
LSD:		Location:		
ALS Lab Work Order # (lab use only)	L1508868	**ALS Contact:** Jessica Spira	**Sampler:**	

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Hg-MeHg-Wet-GCAFS-Va	Hg-Wet-CVAFS-Va	Met-Wet-CCMS-Va	Moisture-Tiss-Va	Number of Containers
	14-LDS-LKTR-12M ~~14-URB-1-M~~ Archive	22 Aug 14	1530	Tissue	✓	✓	✓	✓	1
	14-LDS-LKTR-12L ~~14-URB-1-L~~	22 Aug 14	1530	Tissue	✓	✓	✓	✓	1
	14-LDS-LKTR-13M ~~14-LDS-1-M~~	22 Aug 14	1000	Tissue	✓	✓	✓	✓	1
	14-LDS-LKTR-13M ~~14-LDS-1-T~~ Archive	22 Aug 14	1000	Tissue					1
	14 LDS-LKTR-13L	22 Aug 14	1000		✓	✓	✓	✓	1
	14 LDS-LKTR-14M	23 Aug 14	1015		✓	✓	✓	✓	1
	14 LDS-LKTR-14M Archive	23 Aug 14	1015						1
	14 LDS-LKTR-14L	23 Aug 14	1015		✓	✓	✓	✓	1
	14 LDS-LKTR-15M	23 Aug 14	1120		✓	✓	✓	✓	1
	14 LDS LKTR-15M Archive	23 Aug 14	1120						1
	14 LDS LKTR-15L	23 Aug 14	1120		✓	✓	✓	✓	1
	14 LDS-LKTR-16M	23 Aug 14	1400		✓	✓	✓	✓	1
	14 LDS-LKTR-16M Archive	23 Aug 14	1400						1
	14 LDS-LKTR-16L	23 Aug 14	1400		✓	✓	✓	✓	1
	14 LDS-LKTR-17M	23 Aug 14	1400		✓	✓	✓	✓	1
	14 LDS-LKTR-17M Archive	23 Aug 14	1405						1
	14 LDS-LKTR-17L	23 Aug 14	1405		✓	✓	✓	✓	1

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	Keep Samples Cool During Transit; Samples to be Analyzed in Vancouver
Are samples for human drinking water use? ☐ Yes ☑ No	Please contact Blair upon receipt of samples Thank You!

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		

Released by:	Date:	Time:	INITIAL SHIPMENT RECEPTION (lab use only) Received by:	Date:	Time:	FINAL SHIPMENT RECEPTION (lab use only) Received by:	Date:	Time:
[signature]	26 Aug-14	1145						

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Affix ALS barcode label here
(lab use only)

COC Number: JAY LDS 001

Page 4 of 4

Report To		Report Format / Distribution	Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Golder Associates Ltd	Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	R ☑ Regular (Standard TAT if received by 3 pm - business days)
Contact:	Blair Hersikorn	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:	1721 8th St. E Saskatoon SK, S7H 0T4	☐ 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
Phone:	306-221-1323	Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	E2 ☐ Same day or weekend emergency - contact ALS to confirm TAT and surcharge
		Email 1 or Fax Blair_Hersikorn@Golder.com	Specify Date Required for E2,E or P:
Invoice To	Same as Report To ☑ Yes ☐ No	Email 2 Kerrie_Serben@Golder.com	
	Copy of Invoice with Report ☐ Yes ☑ No	**Invoice Distribution**	**Analysis Request**
Company:		Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
Contact:		Email 1 or Fax SASK-APinquiries@golder.com	
Project Information		Email 2 Blair_Hersikorn@Golder.com	
ALS Quote #:	Q45210	**Oil and Gas Required Fields (client use)**	
Job #:		Approver ID: / Cost Center:	
PO / AFE:	1407256 Phase 7042, Task 30	GL Account: / Routing Code:	
LSD:		Activity Code:	
ALS Lab Work Order # (lab use only)	L1508806	Location:	
		ALS Contact: Jessica Spira / **Sampler:**	

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Hg-MeHg-Wet-GCAFS-Va	Hg-Wet-CVAFS-Va	Met-Wet-CCMS-Va	Moisture-Tiss-Va	Number of Containers
	14 LDS LKTR - 18M ~~14-URS-1-M~~	23-Aug-14	1410	Tissue	✓	✓	✓	✓	1
	14 LDS LKTR 18M ~~14-URS-1-L~~ Archive	23 Aug 14	1410	Tissue				✓	1
	14 LDS LKTR 18 L ~~14-LDS-1-M~~	23 Aug 14	1410	Tissue	✓	✓	✓	✓	1
	~~14-LDS-1-L~~			~~Tissue~~					0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0
									0

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	Keep Samples Cool During Transit; Samples to be Analyzed in Vancouver	Frozen ☐ / SIF Observations Yes ☐ No ☐
Are samples for human drinking water use? ☐ Yes ☑ No	Please contact Blair upon receipt of sample. Thank You!	Ice packs Yes ☐ No ☐ / Custody seal intact Yes ☐ No ☐
		Cooling Initiated ☐

Released by:	Date:	Time:	INITIAL SHIPMENT RECEPTION (lab use only) Received by:	Date:	Time:	INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
[signature]	26-Aug-14	1445					

FINAL SHIPMENT RECEPTION (lab use only) Received by:	Date:	Time:

Golder Associates Ltd.
ATTN: Kerrie Serben
1721 8th STREET EAST
SASKATOON SK S7H 0T4

Date Received: 29-AUG-14
Report Date: 07-NOV-14 14:43 (MT)
Version: FINAL

Client Phone: 306-665-7989

Certificate of Analysis

Lab Work Order #: L1510286

Project P.O. #: 1407256 Phase 7042, Task 30
Job Reference:
C of C Numbers: 14-5Ag-URS-001 Fish
Legal Site Desc:

Brian Morgan
Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1510286-1 14-URS-LKTR-1M							
Sampled By: CLIENT on 25-AUG-14 @ 13:48							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	75.0		0.10	%		15-OCT-14	R2994192
Mercury (Hg)-Total	0.108		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3009808
Methyl Mercury	0.0314		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	1.91		0.40	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Arsenic (As)-Total	0.0089		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Barium (Ba)-Total	0.036		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Boron (B)-Total	<0.20		0.20	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Calcium (Ca)-Total	98.0		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cesium (Cs)-Total	0.297		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Chromium (Cr)-Total	0.030		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cobalt (Co)-Total	0.0089		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Copper (Cu)-Total	0.326		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Iron (Fe)-Total	4.15		0.60	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Lead (Pb)-Total	0.0130		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Magnesium (Mg)-Total	304		0.40	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Manganese (Mn)-Total	0.150		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Phosphorus (P)-Total	2890		2.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Potassium (K)-Total	4800		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Rubidium (Rb)-Total	18.1		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Selenium (Se)-Total	0.272		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Sodium (Na)-Total	224		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Strontium (Sr)-Total	0.201		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Thallium (Tl)-Total	0.0113		0.00040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Zinc (Zn)-Total	4.30		0.10	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
L1510286-3 14-URS-LKTR-1L							
Sampled By: CLIENT on 25-AUG-14 @ 13:48							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	75.4		0.10	%		14-OCT-14	R2999651
Mercury (Hg)-Total	0.0825		0.0010	mg/kg wwt	17-OCT-14	21-OCT-14	R3009808
Methyl Mercury	0.0443		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	<1.0		1.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Arsenic (As)-Total	0.0069		0.0060	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Barium (Ba)-Total	0.017		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1510286-3 14-URS-LKTR-1L							
Sampled By: CLIENT on 25-AUG-14 @ 13:48							
Matrix: Tissue							
Metals in Tissue by HR-ICPMS Micro (WET)							
Boron (B)-Total	<0.20		0.20	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Cadmium (Cd)-Total	0.155		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Calcium (Ca)-Total	148		4.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Cesium (Cs)-Total	0.163		0.0010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Chromium (Cr)-Total	<0.040		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Cobalt (Co)-Total	0.183		0.0040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Copper (Cu)-Total	10.8		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Iron (Fe)-Total	298		1.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Lead (Pb)-Total	<0.010		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Magnesium (Mg)-Total	188		0.40	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Manganese (Mn)-Total	1.62		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Molybdenum (Mo)-Total	0.134		0.0080	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Nickel (Ni)-Total	0.053		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Phosphorus (P)-Total	3500		2.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Potassium (K)-Total	2330		4.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Rubidium (Rb)-Total	11.5		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Selenium (Se)-Total	2.44		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Sodium (Na)-Total	1750		4.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Strontium (Sr)-Total	0.402		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Thallium (Tl)-Total	0.127		0.00040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Tin (Sn)-Total	0.154		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Zinc (Zn)-Total	37.7		0.20	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
L1510286-4 14-URS-LKTR-2M							
Sampled By: CLIENT on 25-AUG-14 @ 15:40							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	77.2		0.10	%		15-OCT-14	R2994192
Mercury (Hg)-Total	0.277		0.013	mg/kg wwt	19-OCT-14	22-OCT-14	R3014188
Methyl Mercury	0.106		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	2.26		0.40	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Arsenic (As)-Total	0.0197		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Barium (Ba)-Total	<0.010		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Boron (B)-Total	<0.20		0.20	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Calcium (Ca)-Total	61.6		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cesium (Cs)-Total	0.306		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Chromium (Cr)-Total	0.016		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cobalt (Co)-Total	0.0092		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Copper (Cu)-Total	0.258		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Iron (Fe)-Total	4.84		0.60	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Lead (Pb)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1510286-4 14-URS-LKTR-2M							
Sampled By: CLIENT on 25-AUG-14 @ 15:40							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Magnesium (Mg)-Total	260		0.40	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Manganese (Mn)-Total	0.108		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Phosphorus (P)-Total	2530		2.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Potassium (K)-Total	4380		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Rubidium (Rb)-Total	15.3		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Selenium (Se)-Total	0.269		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Sodium (Na)-Total	253		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Strontium (Sr)-Total	0.080		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Thallium (Tl)-Total	0.00945		0.00040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Zinc (Zn)-Total	3.03		0.10	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
L1510286-6 14-URS-LKTR-2L							
Sampled By: CLIENT on 25-AUG-14 @ 15:40							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	71.5		0.10	%		14-OCT-14	R2999651
Mercury (Hg)-Total	0.238		0.0010	mg/kg wwt	17-OCT-14	21-OCT-14	R3009808
Methyl Mercury	0.125		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	<1.0		1.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Arsenic (As)-Total	0.0114		0.0060	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Barium (Ba)-Total	0.018		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Bismuth (Bi)-Total	0.0024		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Boron (B)-Total	<0.20		0.20	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Cadmium (Cd)-Total	0.582		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Calcium (Ca)-Total	90.7		4.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Cesium (Cs)-Total	0.220		0.0010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Chromium (Cr)-Total	<0.040		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Cobalt (Co)-Total	0.432		0.0040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Copper (Cu)-Total	19.9		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Iron (Fe)-Total	797		1.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Lead (Pb)-Total	<0.010		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Magnesium (Mg)-Total	246		0.40	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Manganese (Mn)-Total	2.42		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Molybdenum (Mo)-Total	0.184		0.0080	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Nickel (Ni)-Total	0.098		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Phosphorus (P)-Total	4420		2.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Potassium (K)-Total	3440		4.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Rubidium (Rb)-Total	16.0		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Selenium (Se)-Total	3.64		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Sodium (Na)-Total	1220		4.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Strontium (Sr)-Total	0.173		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1510286-6 14-URS-LKTR-2L							
Sampled By: CLIENT on 25-AUG-14 @ 15:40							
Matrix: Tissue							
Metals in Tissue by HR-ICPMS Micro (WET)							
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Thallium (Tl)-Total	0.101		0.00040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Tin (Sn)-Total	0.218		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Uranium (U)-Total	0.00059		0.00040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Zinc (Zn)-Total	44.1		0.20	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
L1510286-7 14-URS-LKTR-3M							
Sampled By: CLIENT on 26-AUG-14 @ 14:36							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	79.4		0.10	%		16-OCT-14	R3004790
Mercury (Hg)-Total	0.439		0.011	mg/kg wwt	19-OCT-14	22-OCT-14	R3014188
Methyl Mercury	0.280		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	1.84		0.40	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Arsenic (As)-Total	0.0491		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Barium (Ba)-Total	0.048		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Boron (B)-Total	<0.20		0.20	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Calcium (Ca)-Total	118		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cesium (Cs)-Total	0.249		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Chromium (Cr)-Total	0.014		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cobalt (Co)-Total	0.0420		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Copper (Cu)-Total	0.138		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Iron (Fe)-Total	3.03		0.60	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Lead (Pb)-Total	0.0066		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Magnesium (Mg)-Total	254		0.40	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Manganese (Mn)-Total	0.122		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Phosphorus (P)-Total	2270		2.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Potassium (K)-Total	3850		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Rubidium (Rb)-Total	11.1		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Selenium (Se)-Total	0.285		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Sodium (Na)-Total	486		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Strontium (Sr)-Total	0.204		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Thallium (Tl)-Total	0.00806		0.00040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Zinc (Zn)-Total	4.37		0.10	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1510286-9 14-URS-LKTR-3L							
Sampled By: CLIENT on 26-AUG-14 @ 14:36							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	70.5		0.10	%		14-OCT-14	R2999651
Mercury (Hg)-Total	1.29		0.010	mg/kg wwt	17-OCT-14	21-OCT-14	R3009808
Methyl Mercury	0.210		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	11.2		1.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Antimony (Sb)-Total	0.0102		0.0020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Arsenic (As)-Total	0.0402		0.0060	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Barium (Ba)-Total	0.060		0.010	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Bismuth (Bi)-Total	0.0043		0.0020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Boron (B)-Total	<0.20		0.20	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Cadmium (Cd)-Total	0.887		0.0020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Calcium (Ca)-Total	1030		4.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Cesium (Cs)-Total	0.179		0.0010	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Chromium (Cr)-Total	0.136		0.040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Cobalt (Co)-Total	0.610		0.0040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Copper (Cu)-Total	38.2		0.040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Iron (Fe)-Total	2940		1.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Lead (Pb)-Total	0.024		0.010	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Magnesium (Mg)-Total	201		0.40	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Manganese (Mn)-Total	2.29		0.010	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Molybdenum (Mo)-Total	0.361		0.0080	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Nickel (Ni)-Total	0.134		0.040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Phosphorus (P)-Total	3950		2.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Potassium (K)-Total	2890		4.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Rubidium (Rb)-Total	10.2		0.010	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Selenium (Se)-Total	5.39		0.020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Sodium (Na)-Total	1430		4.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Strontium (Sr)-Total	2.00		0.020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Tellurium (Te)-Total	0.0066		0.0040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Thallium (Tl)-Total	0.212		0.00040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Uranium (U)-Total	0.0101		0.00040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Vanadium (V)-Total	0.091		0.020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Zinc (Zn)-Total	42.7		0.20	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
L1510286-10 14-URS-LKTR-4M							
Sampled By: CLIENT on 27-AUG-14 @ 11:07							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	74.6		0.10	%		15-OCT-14	R2994192
Mercury (Hg)-Total	0.0695		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3009808
Methyl Mercury	0.0288		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	0.90		0.40	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Arsenic (As)-Total	0.0066		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Barium (Ba)-Total	0.017		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1510286-10 14-URS-LKTR-4M							
Sampled By: CLIENT on 27-AUG-14 @ 11:07							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Boron (B)-Total	<0.20		0.20	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Calcium (Ca)-Total	85.0		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cesium (Cs)-Total	0.0589		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cobalt (Co)-Total	0.0467		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Copper (Cu)-Total	0.224		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Iron (Fe)-Total	2.81		0.60	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Lead (Pb)-Total	0.0046		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Magnesium (Mg)-Total	294		0.40	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Manganese (Mn)-Total	0.116		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Phosphorus (P)-Total	2680		2.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Potassium (K)-Total	4440		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Rubidium (Rb)-Total	8.91		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Selenium (Se)-Total	0.321		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Sodium (Na)-Total	262		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Strontium (Sr)-Total	0.180		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Thallium (Tl)-Total	0.00636		0.00040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Zinc (Zn)-Total	4.05		0.10	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
L1510286-12 14-URS-LKTR-4L							
Sampled By: CLIENT on 27-AUG-14 @ 11:07							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	66.9		0.10	%		14-OCT-14	R2999651
Mercury (Hg)-Total	0.0684		0.0010	mg/kg wwt	17-OCT-14	21-OCT-14	R3009808
Methyl Mercury	0.0139		0.0010	mg/kg wwt		17-OCT-14	R3003048
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	5.8		1.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Antimony (Sb)-Total	0.0020		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Arsenic (As)-Total	0.0184		0.0060	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Barium (Ba)-Total	0.101		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Bismuth (Bi)-Total	0.0033		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Boron (B)-Total	<0.20		0.20	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Cadmium (Cd)-Total	0.640		0.0020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Calcium (Ca)-Total	275		4.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Cesium (Cs)-Total	0.0401		0.0010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Chromium (Cr)-Total	0.043		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Cobalt (Co)-Total	0.214		0.0040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Copper (Cu)-Total	30.7		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Iron (Fe)-Total	574		1.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Lead (Pb)-Total	0.014		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1510286-12 14-URS-LKTR-4L							
Sampled By: CLIENT on 27-AUG-14 @ 11:07							
Matrix: Tissue							
Metals in Tissue by HR-ICPMS Micro (WET)							
Magnesium (Mg)-Total	266		0.40	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Manganese (Mn)-Total	2.18		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Molybdenum (Mo)-Total	0.172		0.0080	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Phosphorus (P)-Total	4810		2.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Potassium (K)-Total	3780		4.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Rubidium (Rb)-Total	11.8		0.010	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Selenium (Se)-Total	1.33		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Sodium (Na)-Total	731		4.0	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Strontium (Sr)-Total	0.311		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Thallium (Tl)-Total	0.0551		0.00040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Tin (Sn)-Total	0.105		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Uranium (U)-Total	0.00171		0.00040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Zinc (Zn)-Total	47.0		0.20	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	05-NOV-14	06-NOV-14	R3059670
L1510286-13 14-URS-LKTR-5M							
Sampled By: CLIENT on 27-AUG-14 @ 11:12							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	75.2		0.10	%		15-OCT-14	R2994192
Mercury (Hg)-Total	0.0845		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3009808
Methyl Mercury	0.0337		0.0010	mg/kg wwt		21-OCT-14	R3012828
Metals in Tissue by CRC ICPMS (WET)							
Aluminum (Al)-Total	1.34		0.40	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Antimony (Sb)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Arsenic (As)-Total	0.0056		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Barium (Ba)-Total	0.023		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Bismuth (Bi)-Total	<0.0020		0.0020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Boron (B)-Total	<0.20		0.20	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cadmium (Cd)-Total	<0.0010		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Calcium (Ca)-Total	95.2		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cesium (Cs)-Total	0.0602		0.0010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Chromium (Cr)-Total	<0.010		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Cobalt (Co)-Total	0.0175		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Copper (Cu)-Total	0.210		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Iron (Fe)-Total	5.16		0.60	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Lead (Pb)-Total	0.0189		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Magnesium (Mg)-Total	288		0.40	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Manganese (Mn)-Total	0.154		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Molybdenum (Mo)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Phosphorus (P)-Total	2710		2.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Potassium (K)-Total	4290		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Rubidium (Rb)-Total	8.87		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Selenium (Se)-Total	0.406		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Sodium (Na)-Total	293		4.0	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Strontium (Sr)-Total	0.175		0.010	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1510286-13 14-URS-LKTR-5M							
Sampled By: CLIENT on 27-AUG-14 @ 11:12							
Matrix: Tissue							
Metals in Tissue by CRC ICPMS (WET)							
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Thallium (Tl)-Total	0.00546		0.00040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Uranium (U)-Total	<0.00040		0.00040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Vanadium (V)-Total	<0.020		0.020	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Zinc (Zn)-Total	4.32		0.10	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	19-OCT-14	21-OCT-14	R3013448
L1510286-15 14-URS-LKTR-5L							
Sampled By: CLIENT on 27-AUG-14 @ 11:12							
Matrix: Tissue							
Miscellaneous Parameters							
% Moisture	73.0		0.10	%		14-OCT-14	R2999651
Mercury (Hg)-Total	0.0686		0.0010	mg/kg wwt	17-OCT-14	21-OCT-14	R3009808
Methyl Mercury	0.0220		0.0010	mg/kg wwt		17-OCT-14	R3003048
Metals in Tissue by HR-ICPMS Micro (WET)							
Aluminum (Al)-Total	6.7		1.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Antimony (Sb)-Total	0.0047		0.0020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Arsenic (As)-Total	0.0174		0.0060	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Barium (Ba)-Total	0.031		0.010	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Beryllium (Be)-Total	<0.0020		0.0020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Bismuth (Bi)-Total	0.0047		0.0020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Boron (B)-Total	<0.20		0.20	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Cadmium (Cd)-Total	1.12		0.0020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Calcium (Ca)-Total	146		4.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Cesium (Cs)-Total	0.0389		0.0010	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Chromium (Cr)-Total	0.042		0.040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Cobalt (Co)-Total	0.179		0.0040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Copper (Cu)-Total	36.4		0.040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Iron (Fe)-Total	1260		1.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Lead (Pb)-Total	0.012		0.010	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Lithium (Li)-Total	<0.10		0.10	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Magnesium (Mg)-Total	185		0.40	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Manganese (Mn)-Total	1.71		0.010	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Molybdenum (Mo)-Total	0.163		0.0080	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Nickel (Ni)-Total	<0.040		0.040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Phosphorus (P)-Total	3920		2.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Potassium (K)-Total	3510		4.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Rubidium (Rb)-Total	9.70		0.010	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Selenium (Se)-Total	1.41		0.020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Sodium (Na)-Total	1040		4.0	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Strontium (Sr)-Total	0.214		0.020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Tellurium (Te)-Total	<0.0040		0.0040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Thallium (Tl)-Total	0.0487		0.00040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Tin (Sn)-Total	<0.020		0.020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Uranium (U)-Total	0.0101		0.00040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Vanadium (V)-Total	0.024		0.020	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Zinc (Zn)-Total	44.3		0.20	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707
Zirconium (Zr)-Total	<0.040		0.040	mg/kg wwt	17-OCT-14	31-OCT-14	R3046707

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-MEHG-WET-GCAFS-VA	Tissue	Methyl Mercury in Tissue by GCAFS (WET)	EPA 1630

This procedure is carried out using a method published by Liang, Bloom, and Horvat (1994), using instrumental conditions adopted from draft US EPA Method 1630. Tissue samples are digested with methanol and potassium hydroxide. A portion of the digestate is analyzed by aqueous phase ethylation and purge and trap, followed by capillary gas chromatography. Highly selective and sensitive detection is achieved by Atomic Fluorescence Spectrometry (AFS) after pyrolytic decomposition of the GC eluent. Results are reported "as MeHg".

HG-WET-CVAFS-VA	Tissue	Mercury in Tissue by CVAFS (WET)	EPA 200.3, EPA 245.7

This method is adapted from US EPA Method 200.3 "Sample Procedures for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues" (1996). Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with repeated additions of hydrogen peroxide. Analysis is by atomic fluorescence spectrophotometry or atomic absorption spectrophotometry, adapted from US EPA Method 245.7. This digestion procedure was implemented on October 5, 2009.

HG-WET-MICR-CVAF-VA	Tissue	Mercury in Tissue by CVAFS Micro (WET)	EPA 200.3, EPA 245.7

This method is adapted from US EPA Method 200.3 "Sample Procedures for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues" (1996). Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with repeated additions of hydrogen peroxide. Analysis is by atomic fluorescence spectrophotometry or atomic absorption spectrophotometry, adapted from US EPA Method 245.7.

MET-WET-CCMS-VA	Tissue	Metals in Tissue by CRC ICPMS (WET)	EPA 200.3/6020A

This method is adapted from US EPA Method 200.3 "Sample Procedures for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues" (1996). Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with repeated additions of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.

MET-WET-MICR-HRMS-VA	Tissue	Metals in Tissue by HR-ICPMS Micro (WET)	EPA 200.3/200.8

Trace metals in tissue are analyzed by high resolution inductively coupled plasma mass spectrometry (HR-ICPMS) modified from US EPA Method 200.8, (Revision 5.5). The sample preparation procedure is modified from US EPA 200.3. Analytical results are reported on wet weight basis.

Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.

MOISTURE-TISS-VA	Tissue	% Moisture in Tissues	ASTM D2974-00 Method A

This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

14-5Ag-URS-001 Fish

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
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
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
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.

Quality Control Report

Workorder: L1510286 Report Date: 07-NOV-14

Client: Golder Associates Ltd.
1721 8th STREET EAST
SASKATOON SK S7H 0T4
Contact: Kerrie Serben

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-MEHG-WET-GCAFS-VA	**Tissue**							
Batch R3003048								
WG1977330-4 CRM		**VA-NRC-TORT3**						
Methyl Mercury			94.8		%		70-130	17-OCT-14
WG1977330-5 CRM		**VA-NRC-DORM4**						
Methyl Mercury			74.9		%		70-130	17-OCT-14
WG1977330-3 LCS								
Methyl Mercury			85.4		%		70-130	17-OCT-14
WG1977330-1 MB								
Methyl Mercury			<0.0010		mg/kg wwt		0.001	17-OCT-14
WG1977330-2 MB								
Methyl Mercury			<0.0010		mg/kg wwt		0.001	17-OCT-14
Batch R3012828								
WG1979312-3 CRM		**VA-NRC-TORT3**						
Methyl Mercury			85.3		%		70-130	21-OCT-14
WG1979312-4 CRM		**VA-NRC-DORM4**						
Methyl Mercury			95.7		%		70-130	21-OCT-14
WG1979312-5 DUP		**L1510286-7**						
Methyl Mercury		0.280	0.305		mg/kg wwt	8.4	40	21-OCT-14
WG1979312-2 LCS								
Methyl Mercury			125.1		%		70-130	21-OCT-14
WG1979312-1 MB								
Methyl Mercury			<0.0010		mg/kg wwt		0.001	21-OCT-14
HG-WET-CVAFS-VA	**Tissue**							
Batch R3009808								
WG1976853-4 CRM		**VA-NRC-TORT3**						
Mercury (Hg)-Total			92.6		%		70-130	21-OCT-14
WG1976853-5 CRM		**VA-NIST-1566B**						
Mercury (Hg)-Total			85.5		%		70-130	21-OCT-14
WG1976853-1 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	21-OCT-14
WG1976853-2 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	21-OCT-14
Batch R3014188								
WG1976853-3 DUP		**L1510286-7**						
Mercury (Hg)-Total		0.439	0.455		mg/kg wwt	3.7	40	22-OCT-14
HG-WET-MICR-CVAF-VA	**Tissue**							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-WET-MICR-CVAF-VA	**Tissue**							
Batch R3009808								
WG1977074-5 CRM		**VA-NRC-TORT3**						
Mercury (Hg)-Total			96.6		%		70-130	21-OCT-14
WG1977074-6 CRM		**VA-NIST-1566B**						
Mercury (Hg)-Total			100.1		%		70-130	21-OCT-14
WG1977074-4 DUP		**L1510286-6**						
Mercury (Hg)-Total		0.238	0.228		mg/kg wwt	4.2	30	21-OCT-14
WG1977074-1 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	21-OCT-14
WG1977074-2 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	21-OCT-14
WG1977074-3 MB								
Mercury (Hg)-Total			<0.0010		mg/kg wwt		0.001	21-OCT-14
MET-WET-CCMS-VA	**Tissue**							
Batch R3013448								
WG1976853-4 CRM		**VA-NRC-TORT3**						
Arsenic (As)-Total			105.1		%		70-130	21-OCT-14
Cadmium (Cd)-Total			91.4		%		70-130	21-OCT-14
Chromium (Cr)-Total			86.0		%		70-130	21-OCT-14
Cobalt (Co)-Total			95.7		%		70-130	21-OCT-14
Copper (Cu)-Total			85.8		%		70-130	21-OCT-14
Iron (Fe)-Total			87.0		%		70-130	21-OCT-14
Lead (Pb)-Total			83.0		%		70-130	21-OCT-14
Manganese (Mn)-Total			89.5		%		70-130	21-OCT-14
Molybdenum (Mo)-Total			90.2		%		70-130	21-OCT-14
Nickel (Ni)-Total			87.2		%		70-130	21-OCT-14
Selenium (Se)-Total			92.3		%		70-130	21-OCT-14
Strontium (Sr)-Total			87.8		%		70-130	21-OCT-14
Vanadium (V)-Total			91.7		%		70-130	21-OCT-14
Zinc (Zn)-Total			88.0		%		70-130	21-OCT-14
WG1976853-5 CRM		**VA-NIST-1566B**						
Antimony (Sb)-Total			0.0068		mg/kg wwt		0.001-0.021	21-OCT-14
Arsenic (As)-Total			94.2		%		70-130	21-OCT-14
Barium (Ba)-Total			80.1		%		70-130	21-OCT-14
Boron (B)-Total			4.29		mg/kg wwt		3.5-5.5	21-OCT-14
Cadmium (Cd)-Total			96.1		%		70-130	21-OCT-14
Calcium (Ca)-Total			90.3		%		70-130	21-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-CCMS-VA	**Tissue**							
Batch R3013448								
WG1976853-5 CRM		**VA-NIST-1566B**						
Cobalt (Co)-Total			91.4		%		70-130	21-OCT-14
Copper (Cu)-Total			92.6		%		70-130	21-OCT-14
Iron (Fe)-Total			88.6		%		70-130	21-OCT-14
Lead (Pb)-Total			90.1		%		70-130	21-OCT-14
Magnesium (Mg)-Total			92.1		%		70-130	21-OCT-14
Manganese (Mn)-Total			93.2		%		70-130	21-OCT-14
Nickel (Ni)-Total			90.1		%		70-130	21-OCT-14
Potassium (K)-Total			93.9		%		70-130	21-OCT-14
Rubidium (Rb)-Total			92.8		%		70-130	21-OCT-14
Selenium (Se)-Total			95.4		%		70-130	21-OCT-14
Sodium (Na)-Total			88.2		%		70-130	21-OCT-14
Strontium (Sr)-Total			87.9		%		70-130	21-OCT-14
Uranium (U)-Total			94.1		%		70-130	21-OCT-14
Vanadium (V)-Total			85.9		%		70-130	21-OCT-14
Zinc (Zn)-Total			90.5		%		70-130	21-OCT-14
WG1976853-3 DUP		**L1510286-7**						
Aluminum (Al)-Total		1.84	1.28		mg/kg wwt	36	40	21-OCT-14
Antimony (Sb)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Arsenic (As)-Total		0.0491	0.0469		mg/kg wwt	4.6	40	21-OCT-14
Barium (Ba)-Total		0.048	0.029	J	mg/kg wwt	0.018	0.02	21-OCT-14
Beryllium (Be)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Bismuth (Bi)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Boron (B)-Total		<0.20	<0.20	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Cadmium (Cd)-Total		<0.0010	<0.0010	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Calcium (Ca)-Total		118	81.1		mg/kg wwt	37	60	21-OCT-14
Cesium (Cs)-Total		0.249	0.250		mg/kg wwt	0.5	40	21-OCT-14
Chromium (Cr)-Total		0.014	<0.010	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Cobalt (Co)-Total		0.0420	0.0474		mg/kg wwt	12	40	21-OCT-14
Copper (Cu)-Total		0.138	0.153		mg/kg wwt	10	40	21-OCT-14
Iron (Fe)-Total		3.03	3.06		mg/kg wwt	1.2	40	21-OCT-14
Lead (Pb)-Total		0.0066	0.0040	J	mg/kg wwt	0.0026	0.008	21-OCT-14
Lithium (Li)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Magnesium (Mg)-Total		254	252		mg/kg wwt	0.6	40	21-OCT-14
Manganese (Mn)-Total		0.122	0.107		mg/kg wwt	12	40	21-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-CCMS-VA	**Tissue**							
Batch R3013448								
WG1976853-3 DUP		**L1510286-7**						
Molybdenum (Mo)-Total		<0.0040	<0.0040	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Nickel (Ni)-Total		<0.040	0.041	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Phosphorus (P)-Total		2270	2290		mg/kg wwt	0.6	40	21-OCT-14
Potassium (K)-Total		3850	3870		mg/kg wwt	0.4	40	21-OCT-14
Rubidium (Rb)-Total		11.1	11.2		mg/kg wwt	1.3	40	21-OCT-14
Selenium (Se)-Total		0.285	0.284		mg/kg wwt	0.4	40	21-OCT-14
Sodium (Na)-Total		486	490		mg/kg wwt	0.8	40	21-OCT-14
Strontium (Sr)-Total		0.204	0.113		mg/kg wwt	57	60	21-OCT-14
Tellurium (Te)-Total		<0.0040	<0.0040	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Thallium (Tl)-Total		0.00806	0.00808		mg/kg wwt	0.2	40	21-OCT-14
Tin (Sn)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Uranium (U)-Total		<0.00040	<0.00040	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Vanadium (V)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
Zinc (Zn)-Total		4.37	3.96		mg/kg wwt	9.9	40	21-OCT-14
Zirconium (Zr)-Total		<0.040	<0.040	RPD-NA	mg/kg wwt	N/A	40	21-OCT-14
WG1976853-1 MB								
Aluminum (Al)-Total			<0.40		mg/kg wwt		0.4	21-OCT-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	21-OCT-14
Arsenic (As)-Total			<0.0040		mg/kg wwt		0.004	21-OCT-14
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	21-OCT-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	21-OCT-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	21-OCT-14
Cadmium (Cd)-Total			<0.0010		mg/kg wwt		0.001	21-OCT-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	21-OCT-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	21-OCT-14
Chromium (Cr)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	21-OCT-14
Copper (Cu)-Total			<0.020		mg/kg wwt		0.02	21-OCT-14
Iron (Fe)-Total			<0.60		mg/kg wwt		0.6	21-OCT-14
Lead (Pb)-Total			<0.0040		mg/kg wwt		0.004	21-OCT-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	21-OCT-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	21-OCT-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-CCMS-VA	**Tissue**							
Batch R3013448								
WG1976853-1 MB								
Molybdenum (Mo)-Total			<0.0040		mg/kg wwt		0.004	21-OCT-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	21-OCT-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	21-OCT-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	21-OCT-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14
Selenium (Se)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	21-OCT-14
Strontium (Sr)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	21-OCT-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	21-OCT-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	21-OCT-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	21-OCT-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	21-OCT-14
Zinc (Zn)-Total			<0.10		mg/kg wwt		0.1	21-OCT-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	21-OCT-14
WG1976853-2 MB								
Aluminum (Al)-Total			<0.40		mg/kg wwt		0.4	21-OCT-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	21-OCT-14
Arsenic (As)-Total			<0.0040		mg/kg wwt		0.004	21-OCT-14
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	21-OCT-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	21-OCT-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	21-OCT-14
Cadmium (Cd)-Total			<0.0010		mg/kg wwt		0.001	21-OCT-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	21-OCT-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	21-OCT-14
Chromium (Cr)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	21-OCT-14
Copper (Cu)-Total			<0.020		mg/kg wwt		0.02	21-OCT-14
Iron (Fe)-Total			<0.60		mg/kg wwt		0.6	21-OCT-14
Lead (Pb)-Total			<0.0040		mg/kg wwt		0.004	21-OCT-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	21-OCT-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	21-OCT-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-CCMS-VA	**Tissue**							
Batch R3013448								
WG1976853-2 MB								
Molybdenum (Mo)-Total			<0.0040		mg/kg wwt		0.004	21-OCT-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	21-OCT-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	21-OCT-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	21-OCT-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14
Selenium (Se)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	21-OCT-14
Strontium (Sr)-Total			<0.010		mg/kg wwt		0.01	21-OCT-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	21-OCT-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	21-OCT-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	21-OCT-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	21-OCT-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	21-OCT-14
Zinc (Zn)-Total			<0.10		mg/kg wwt		0.1	21-OCT-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	21-OCT-14
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch R3046707								
WG1977074-5 CRM		**VA-NRC-TORT3**						
Arsenic (As)-Total			117.9		%		70-130	31-OCT-14
Cadmium (Cd)-Total			114.0		%		70-130	31-OCT-14
Chromium (Cr)-Total			82.0		%		70-130	31-OCT-14
Cobalt (Co)-Total			90.9		%		70-130	31-OCT-14
Copper (Cu)-Total			100.6		%		70-130	31-OCT-14
Iron (Fe)-Total			111.5		%		70-130	31-OCT-14
Lead (Pb)-Total			86.6		%		70-130	31-OCT-14
Manganese (Mn)-Total			123.0		%		70-130	31-OCT-14
Molybdenum (Mo)-Total			89.9		%		70-130	31-OCT-14
Nickel (Ni)-Total			89.4		%		70-130	31-OCT-14
Selenium (Se)-Total			102.1		%		70-130	31-OCT-14
Strontium (Sr)-Total			112.7		%		70-130	31-OCT-14
Vanadium (V)-Total			108.3		%		70-130	31-OCT-14
Zinc (Zn)-Total			91.4		%		70-130	31-OCT-14
WG1977074-6 CRM		**VA-NIST-1566B**						
Antimony (Sb)-Total			0.0078		mg/kg wwt		0.001-0.021	31-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3046707**							
WG1977074-6	**CRM**	**VA-NIST-1566B**						
Arsenic (As)-Total			95.7		%		70-130	31-OCT-14
Barium (Ba)-Total			91.0		%		70-130	31-OCT-14
Boron (B)-Total			117.9		%		70-130	31-OCT-14
Cadmium (Cd)-Total			120.8		%		70-130	31-OCT-14
Calcium (Ca)-Total			108.2		%		70-130	31-OCT-14
Cobalt (Co)-Total			85.4		%		70-130	31-OCT-14
Copper (Cu)-Total			111.1		%		70-130	31-OCT-14
Iron (Fe)-Total			113.8		%		70-130	31-OCT-14
Lead (Pb)-Total			96.9		%		70-130	31-OCT-14
Magnesium (Mg)-Total			103.2		%		70-130	31-OCT-14
Manganese (Mn)-Total			123.9		%		70-130	31-OCT-14
Nickel (Ni)-Total			93.3		%		70-130	31-OCT-14
Potassium (K)-Total			97.9		%		70-130	31-OCT-14
Rubidium (Rb)-Total			96.3		%		70-130	31-OCT-14
Selenium (Se)-Total			100.0		%		70-130	31-OCT-14
Sodium (Na)-Total			101.8		%		70-130	31-OCT-14
Strontium (Sr)-Total			118.0		%		70-130	31-OCT-14
Uranium (U)-Total			115.7		%		70-130	31-OCT-14
Vanadium (V)-Total			76.0		%		70-130	31-OCT-14
Zinc (Zn)-Total			90.6		%		70-130	31-OCT-14
WG1977074-1	**MB**							
Aluminum (Al)-Total			<1.0		mg/kg wwt		1	31-OCT-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Arsenic (As)-Total			<0.0060		mg/kg wwt		0.006	31-OCT-14
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	31-OCT-14
Cadmium (Cd)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	31-OCT-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	31-OCT-14
Chromium (Cr)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	31-OCT-14
Copper (Cu)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3046707**							
WG1977074-1	**MB**							
Iron (Fe)-Total			<1.0		mg/kg wwt		1	31-OCT-14
Lead (Pb)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	31-OCT-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	31-OCT-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Molybdenum (Mo)-Total			<0.0080		mg/kg wwt		0.008	31-OCT-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	31-OCT-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	31-OCT-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Selenium (Se)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	31-OCT-14
Strontium (Sr)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	31-OCT-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	31-OCT-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	31-OCT-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Zinc (Zn)-Total			<0.20		mg/kg wwt		0.2	31-OCT-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14
WG1977074-2	**MB**							
Aluminum (Al)-Total			<1.0		mg/kg wwt		1	31-OCT-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Arsenic (As)-Total			<0.0060		mg/kg wwt		0.006	31-OCT-14
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	31-OCT-14
Cadmium (Cd)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	31-OCT-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	31-OCT-14
Chromium (Cr)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	31-OCT-14
Copper (Cu)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3046707**							
WG1977074-2	**MB**							
Iron (Fe)-Total			<1.0		mg/kg wwt		1	31-OCT-14
Lead (Pb)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	31-OCT-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	31-OCT-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Molybdenum (Mo)-Total			<0.0080		mg/kg wwt		0.008	31-OCT-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	31-OCT-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	31-OCT-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Selenium (Se)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	31-OCT-14
Strontium (Sr)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	31-OCT-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	31-OCT-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	31-OCT-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Zinc (Zn)-Total			<0.20		mg/kg wwt		0.2	31-OCT-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14
WG1977074-3	**MB**							
Aluminum (Al)-Total			<1.0		mg/kg wwt		1	31-OCT-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Arsenic (As)-Total			<0.0060		mg/kg wwt		0.006	31-OCT-14
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	31-OCT-14
Cadmium (Cd)-Total			<0.0020		mg/kg wwt		0.002	31-OCT-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	31-OCT-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	31-OCT-14
Chromium (Cr)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	31-OCT-14
Copper (Cu)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3046707**							
WG1977074-3	**MB**							
Iron (Fe)-Total			<1.0		mg/kg wwt		1	31-OCT-14
Lead (Pb)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	31-OCT-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	31-OCT-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Molybdenum (Mo)-Total			<0.0080		mg/kg wwt		0.008	31-OCT-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	31-OCT-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	31-OCT-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	31-OCT-14
Selenium (Se)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	31-OCT-14
Strontium (Sr)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	31-OCT-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	31-OCT-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	31-OCT-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	31-OCT-14
Zinc (Zn)-Total			<0.20		mg/kg wwt		0.2	31-OCT-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	31-OCT-14
Batch	**R3059670**							
WG1991262-6	**CRM**	**VA-NIST-2976**						
Aluminum (Al)-Total			78.8		%		70-130	06-NOV-14
Arsenic (As)-Total			107.9		%		70-130	06-NOV-14
Cadmium (Cd)-Total			103.2		%		70-130	06-NOV-14
Calcium (Ca)-Total			103.8		%		70-130	06-NOV-14
Chromium (Cr)-Total			0.411		mg/kg wwt		0.3-0.7	06-NOV-14
Cobalt (Co)-Total			91.4		%		70-130	06-NOV-14
Copper (Cu)-Total			92.3		%		70-130	06-NOV-14
Iron (Fe)-Total			112.1		%		70-130	06-NOV-14
Lead (Pb)-Total			121.4		%		70-130	06-NOV-14
Magnesium (Mg)-Total			101.1		%		70-130	06-NOV-14
Manganese (Mn)-Total			124.3		%		70-130	06-NOV-14
Nickel (Ni)-Total			94.5		%		70-130	06-NOV-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3059670**							
WG1991262-6	**CRM**	**VA-NIST-2976**						
Phosphorus (P)-Total			99.4		%		70-130	06-NOV-14
Potassium (K)-Total			105.3		%		70-130	06-NOV-14
Rubidium (Rb)-Total			104.3		%		70-130	06-NOV-14
Selenium (Se)-Total			105.0		%		70-130	06-NOV-14
Sodium (Na)-Total			101.5		%		70-130	06-NOV-14
Strontium (Sr)-Total			80.4		%		70-130	06-NOV-14
Tin (Sn)-Total			0.075		mg/kg wwt		0-0.196	06-NOV-14
Zinc (Zn)-Total			100.1		%		70-130	06-NOV-14
WG1991262-7	**CRM**	**VA-NIST-1515**						
Antimony (Sb)-Total			0.0083		mg/kg wwt		0.003-0.023	06-NOV-14
Arsenic (As)-Total			0.0318		mg/kg wwt		0.008-0.068	06-NOV-14
Barium (Ba)-Total			98.5		%		70-130	06-NOV-14
Boron (B)-Total			121.1		%		70-130	06-NOV-14
Cadmium (Cd)-Total			0.0134		mg/kg wwt		0.003-0.023	06-NOV-14
Calcium (Ca)-Total			110.5		%		70-130	06-NOV-14
Chromium (Cr)-Total			0.163		mg/kg wwt		0.1-0.5	06-NOV-14
Cobalt (Co)-Total			77.0		%		70-130	06-NOV-14
Copper (Cu)-Total			91.6		%		70-130	06-NOV-14
Iron (Fe)-Total			83.2		%		70-130	06-NOV-14
Lead (Pb)-Total			83.8		%		70-130	06-NOV-14
Magnesium (Mg)-Total			107.1		%		70-130	06-NOV-14
Manganese (Mn)-Total			107.9		%		70-130	06-NOV-14
Molybdenum (Mo)-Total			0.0752		mg/kg wwt		0.054-0.134	06-NOV-14
Nickel (Ni)-Total			98.7		%		70-130	06-NOV-14
Phosphorus (P)-Total			111.6		%		70-130	06-NOV-14
Potassium (K)-Total			106.3		%		70-130	06-NOV-14
Rubidium (Rb)-Total			95.1		%		70-130	06-NOV-14
Strontium (Sr)-Total			107.9		%		70-130	06-NOV-14
Uranium (U)-Total			0.00416		mg/kg wwt		0.004-0.008	06-NOV-14
Zinc (Zn)-Total			83.1		%		70-130	06-NOV-14
WG1991262-4	**DUP**	**L1510286-6**						
Aluminum (Al)-Total		<1.0	1.8	RPD-NA	mg/kg wwt	N/A	40	06-NOV-14
Antimony (Sb)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	06-NOV-14
Arsenic (As)-Total		0.0114	0.0135		mg/kg wwt	17	40	06-NOV-14
Barium (Ba)-Total		0.018	0.028	J	mg/kg wwt	0.010	0.02	06-NOV-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3059670**							
WG1991262-4	**DUP**	**L1510286-6**						
Beryllium (Be)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	40	06-NOV-14
Bismuth (Bi)-Total		0.0024	0.0022		mg/kg wwt	8.4	40	06-NOV-14
Boron (B)-Total		<0.20	<0.20	RPD-NA	mg/kg wwt	N/A	40	06-NOV-14
Cadmium (Cd)-Total		0.582	0.557		mg/kg wwt	4.4	40	06-NOV-14
Calcium (Ca)-Total		90.7	184	DUP-H	mg/kg wwt	68	60	06-NOV-14
Cesium (Cs)-Total		0.220	0.199		mg/kg wwt	10	40	06-NOV-14
Chromium (Cr)-Total		<0.040	0.051	RPD-NA	mg/kg wwt	N/A	40	06-NOV-14
Cobalt (Co)-Total		0.432	0.456		mg/kg wwt	5.4	40	06-NOV-14
Copper (Cu)-Total		19.9	20.9		mg/kg wwt	4.6	40	06-NOV-14
Iron (Fe)-Total		797	878		mg/kg wwt	9.8	40	06-NOV-14
Lead (Pb)-Total		<0.010	<0.010	RPD-NA	mg/kg wwt	N/A	40	06-NOV-14
Lithium (Li)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	40	06-NOV-14
Magnesium (Mg)-Total		246	183		mg/kg wwt	29	40	06-NOV-14
Manganese (Mn)-Total		2.42	2.58		mg/kg wwt	6.2	40	06-NOV-14
Molybdenum (Mo)-Total		0.184	0.188		mg/kg wwt	2.4	40	06-NOV-14
Nickel (Ni)-Total		0.098	0.099		mg/kg wwt	0.8	40	06-NOV-14
Phosphorus (P)-Total		4420	4300		mg/kg wwt	2.6	40	06-NOV-14
Potassium (K)-Total		3440	3400		mg/kg wwt	0.9	40	06-NOV-14
Rubidium (Rb)-Total		16.0	15.5		mg/kg wwt	3.2	40	06-NOV-14
Selenium (Se)-Total		3.64	4.62		mg/kg wwt	24	40	06-NOV-14
Sodium (Na)-Total		1220	1180		mg/kg wwt	3.4	40	06-NOV-14
Strontium (Sr)-Total		0.173	0.287		mg/kg wwt	50	60	06-NOV-14
Tellurium (Te)-Total		<0.0040	<0.0040	RPD-NA	mg/kg wwt	N/A	40	06-NOV-14
Thallium (Tl)-Total		0.101	0.117		mg/kg wwt	14	40	06-NOV-14
Tin (Sn)-Total		0.218	0.310		mg/kg wwt	35	40	06-NOV-14
Uranium (U)-Total		0.00059	0.00079		mg/kg wwt	28	40	06-NOV-14
Vanadium (V)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	40	06-NOV-14
Zinc (Zn)-Total		44.1	49.6		mg/kg wwt	12	40	06-NOV-14
Zirconium (Zr)-Total		<0.040	<0.040	RPD-NA	mg/kg wwt	N/A	40	06-NOV-14
WG1991262-1	**MB**							
Aluminum (Al)-Total			<1.0		mg/kg wwt		1	06-NOV-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Arsenic (As)-Total			<0.0060		mg/kg wwt		0.006	06-NOV-14
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3059670**							
WG1991262-1	**MB**							
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	06-NOV-14
Cadmium (Cd)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	06-NOV-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	06-NOV-14
Chromium (Cr)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	06-NOV-14
Copper (Cu)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
Iron (Fe)-Total			<1.0		mg/kg wwt		1	06-NOV-14
Lead (Pb)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	06-NOV-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	06-NOV-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14
Molybdenum (Mo)-Total			<0.0080		mg/kg wwt		0.008	06-NOV-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	06-NOV-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	06-NOV-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14
Selenium (Se)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	06-NOV-14
Strontium (Sr)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	06-NOV-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	06-NOV-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	06-NOV-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Zinc (Zn)-Total			<0.20		mg/kg wwt		0.2	06-NOV-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
WG1991262-2	**MB**							
Aluminum (Al)-Total			<1.0		mg/kg wwt		1	06-NOV-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Arsenic (As)-Total			<0.0060		mg/kg wwt		0.006	06-NOV-14
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch	**R3059670**							
WG1991262-2	**MB**							
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	06-NOV-14
Cadmium (Cd)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	06-NOV-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	06-NOV-14
Chromium (Cr)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	06-NOV-14
Copper (Cu)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
Iron (Fe)-Total			<1.0		mg/kg wwt		1	06-NOV-14
Lead (Pb)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	06-NOV-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	06-NOV-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14
Molybdenum (Mo)-Total			<0.0080		mg/kg wwt		0.008	06-NOV-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	06-NOV-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	06-NOV-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14
Selenium (Se)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	06-NOV-14
Strontium (Sr)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	06-NOV-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	06-NOV-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	06-NOV-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Zinc (Zn)-Total			<0.20		mg/kg wwt		0.2	06-NOV-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
WG1991262-3	**MB**							
Aluminum (Al)-Total			<1.0		mg/kg wwt		1	06-NOV-14
Antimony (Sb)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Arsenic (As)-Total			<0.0060		mg/kg wwt		0.006	06-NOV-14
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MICR-HRMS-VA	**Tissue**							
Batch **R3059670**								
WG1991262-3 **MB**								
Beryllium (Be)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Bismuth (Bi)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Boron (B)-Total			<0.20		mg/kg wwt		0.2	06-NOV-14
Cadmium (Cd)-Total			<0.0020		mg/kg wwt		0.002	06-NOV-14
Calcium (Ca)-Total			<4.0		mg/kg wwt		4	06-NOV-14
Cesium (Cs)-Total			<0.0010		mg/kg wwt		0.001	06-NOV-14
Chromium (Cr)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
Cobalt (Co)-Total			<0.0040		mg/kg wwt		0.004	06-NOV-14
Copper (Cu)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
Iron (Fe)-Total			<1.0		mg/kg wwt		1	06-NOV-14
Lead (Pb)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	06-NOV-14
Magnesium (Mg)-Total			<0.40		mg/kg wwt		0.4	06-NOV-14
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14
Molybdenum (Mo)-Total			<0.0080		mg/kg wwt		0.008	06-NOV-14
Nickel (Ni)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
Phosphorus (P)-Total			<2.0		mg/kg wwt		2	06-NOV-14
Potassium (K)-Total			<4.0		mg/kg wwt		4	06-NOV-14
Rubidium (Rb)-Total			<0.010		mg/kg wwt		0.01	06-NOV-14
Selenium (Se)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Sodium (Na)-Total			<4.0		mg/kg wwt		4	06-NOV-14
Strontium (Sr)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Tellurium (Te)-Total			<0.0040		mg/kg wwt		0.004	06-NOV-14
Thallium (Tl)-Total			<0.00040		mg/kg wwt		0.0004	06-NOV-14
Tin (Sn)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Uranium (U)-Total			<0.00040		mg/kg wwt		0.0004	06-NOV-14
Vanadium (V)-Total			<0.020		mg/kg wwt		0.02	06-NOV-14
Zinc (Zn)-Total			<0.20		mg/kg wwt		0.2	06-NOV-14
Zirconium (Zr)-Total			<0.040		mg/kg wwt		0.04	06-NOV-14
MOISTURE-TISS-VA	**Tissue**							
Batch **R2994192**								
WG1974352-1 **DUP**		**L1510286-13**						
% Moisture		75.2	76.1		%	1.2	20	15-OCT-14

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-TISS-VA	**Tissue**							
Batch R2999651								
WG1972971-1 DUP		**L1510286-6**						
% Moisture		71.5	72.6		%	1.5	20	14-OCT-14
Batch R3004790								
WG1977570-2 DUP		**L1510286-7**						
% Moisture		79.4	80.0		%	0.8	20	16-OCT-14

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Affix ALS barcode label here (lab use only)

COC Number: 14 - SAg - URS - 001 Fish

Page 1 of 1

Report To		Report Format / Distribution		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Golder Associates Ltd	Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	R ☑ Regular (Standard TAT if received by 3 pm - business days)
Contact:	Blair Hersikorn	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:	1721 8th St E Saskatoon SK, S7H 0T4	☐ 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
Phone:	306-221-1323	Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX	E2 ☐ Same day or weekend emergency - contact ALS to confirm TAT and surcharge
		Email 1 or Fax	Blair_Hersikorn@Golder.com	Specify Date Required for E2,E or P:
		Email 2	Kerrie_Serben@Golder.com	

Invoice To		Invoice Distribution	
	Same as Report To ☑ Yes ☐ No	Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
	Copy of Invoice with Report ☐ Yes ☑ No	Email 1 or Fax	SASK-APinquiries@golder.com
Company:		Email 2	Blair_Hersikorn@Golder.com
Contact:			

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q45210	Approver ID:	Cost Center:
Job #:		GL Account:	Routing Code:
PO / AFE:	1407256 Phase 7042, Task 30	Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): L1510286 **ALS Contact:** Jessica Spira **Sampler:**

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	Hg-Met-Hg-Wet-CVAFS-Va	Hg-Met-CVAFS-Va	Met-Met-CICMS-Va	Moisture-Tss-Va	Number of Containers
	14-URS-LKTR-1M 14-URS-1-M	25-Aug-14	1348	Tissue	✓	✓	✓	✓	1
	14-URS-LKTR-1M 14-URS-1-L Archive	25-Aug-14	1348	Tissue					1
	14-URS-LKTR-1L 14-URS-1-M	25-Aug-14	1348	Tissue	✓	✓	✓	✓	1
	14-URS-LKTR-2M 14-URS-1-T Archive	28 Aug-14	1540	Tissue					1
	14-URS-LKTR-2M	28 Aug-14	1540		✓	✓	✓	✓	1
	14-URS-LKTR-2L	28-Aug-14	1540		✓	✓	✓	✓	1
	14-URS-LKTR-3M	26-Aug-14	1436		✓	✓	✓	✓	1
	14-URS-LKTR-3M Archive	26-Aug-14	1436						1
	14-URS-LKTR-3L	26-Aug-14	1436		✓	✓	✓	✓	1
	14-URS-LKTR-4M	27 Aug-14	1107		✓	✓	✓	✓	1
	14-URS-LKTR-4M Archive	27 Aug-14	1107						1
	14-URS-LKTR-4L	27 Aug-14	1107		✓	✓	✓	✓	1
	14-URS-LKTR-5M	27 Aug-14	1112		✓	✓	✓	✓	1
	14-URS-LKTR-5M Archive	27 Aug-14	1112						1
	14-URS-LKTR-5L	27 Aug-14	1112		✓	✓	✓	✓	1

L1510286-COFC

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	Keep Samples Cool During Transit. Samples to be Analyzed in Vancouver. Please contact Blair upon receipt of samples Thank you.
Are samples for human drinking water use? ☐ Yes ☑ No	

SAMPLE CONDITION AS RECEIVED (lab use only)

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

INITIAL COOLER TEMPERATURES °C		FINAL COOLER TEMPERATURES °C			
-2.6 avg	-2.9 avg				

Released by:	Date:	Time:	INITIAL SHIPMENT RECEPTION (lab use only) Received by:	Date:	Time:	FINAL SHIPMENT RECEPTION (lab use only) Received by:	Date:	Time:
[signature]	~~27-Aug-14~~ 28-Aug-14	0900	MT	Aug 29/14	11:40am			

APPENDIX D

Fish Tissue Chemistry Results

Table D1: Lake Trout Muscle and Liver Tissue Samples from Ursula Lake, 2014

Parameter	Units	Detection Limit	14-URS-LKTR-1M	14-URS-LKTR-2M	14-URS-LKTR-3M	14-URS-LKTR-4M	14-URS-LKTR-5M	14-URS-LKTR-1L	14-URS-LKTR-2L	14-URS-LKTR-3L	14-URS-LKTR-4L	14-URS-LKTR-5L
% Moisture	%	0.10	75.0	77.2	79.4	74.6	75.2	75.4	71.5	70.5	66.9	73.0
Aluminum	mg/kg ww	0.40 to 1.0	1.91	2.26	1.84	0.90	1.34	<1.0	<1.0	11.2	5.8	6.7
Antimony	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0102	0.0020	0.0047
Arsenic	mg/kg ww	0.0040 to 0.0060	0.0089	0.0197	0.0491	0.0066	0.0056	0.0069	0.0114	0.0402	0.0184	0.0174
Barium	mg/kg ww	0.010	0.036	<0.010	0.048	0.017	0.023	0.017	0.018	0.060	0.101	0.031
Beryllium	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0024	0.0043	0.0033	0.0047
Boron	mg/kg ww	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	mg/kg ww	0.0010 to 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.155	0.582	0.887	0.640	1.12
Calcium	mg/kg ww	4.0	98.0	61.6	118	85.0	95.2	148	90.7	1,030	275	146
Cesium	mg/kg ww	0.0010	0.297	0.306	0.249	0.0589	0.0602	0.163	0.220	0.179	0.0401	0.0389
Chromium	mg/kg ww	0.010 to 0.040	0.030	0.016	0.014	<0.010	<0.010	<0.040	<0.040	0.136	0.043	0.042
Cobalt	mg/kg ww	0.0040	0.0089	0.0092	0.0420	0.0467	0.0175	0.183	0.432	0.610	0.214	0.179
Copper	mg/kg ww	0.020 to 0.040	0.326	0.258	0.138	0.224	0.210	10.8	19.9	38.2	30.7	36.4
Iron	mg/kg ww	0.60 to 1.0	4.15	4.84	3.03	2.81	5.16	298	797	2,940	574	1,260
Lead	mg/kg ww	0.0040 to 0.010	0.0130	<0.0040	0.0066	0.0046	0.0189	<0.010	<0.010	0.024	0.014	0.012
Lithium	mg/kg ww	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/kg ww	0.40	304	260	254	294	288	188	246	201	266	185
Manganese	mg/kg ww	0.010	0.150	0.108	0.122	0.116	0.154	1.62	2.42	2.29	2.18	1.71
Mercury	mg/kg ww	0.0010 to 0.013	0.108	0.277	0.439	0.0695	0.0845	0.0825	0.238	1.29	0.0684	0.0686
Methyl Mercury	mg/kg ww	0.0010	0.0314	0.106	0.280	0.0288	0.0337	0.0443	0.125	0.210	0.0139	0.0220
Molybdenum	mg/kg ww	0.0040 to 0.0080	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.134	0.184	0.361	0.172	0.163
Nickel	mg/kg ww	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.053	0.098	0.134	<0.040	<0.040
Phosphorus	mg/kg ww	2.0	2,890	2,530	2,270	2,680	2,710	3,500	4,420	3,950	4,810	3,920
Potassium	mg/kg ww	4.0	4,800	4,380	3,850	4,440	4,290	2,330	3,440	2,890	3,780	3,510
Rubidium	mg/kg ww	0.010	18.1	15.3	11.1	8.91	8.87	11.5	16.0	10.2	11.8	9.70
Selenium	mg/kg ww	0.010 to 0.020	0.272	0.269	0.285	0.321	0.406	2.44	3.64	5.39	1.33	1.41
Sodium	mg/kg ww	4.0	224	253	486	262	293	1,750	1,220	1,430	731	1,040
Strontium	mg/kg ww	0.010 to 0.020	0.201	0.080	0.204	0.180	0.175	0.402	0.173	2.00	0.311	0.214
Tellurium	mg/kg ww	0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0066	<0.0040	<0.0040
Thallium	mg/kg ww	0.00040	0.0113	0.00945	0.00806	0.00636	0.00546	0.127	0.101	0.212	0.0551	0.0487
Tin	mg/kg ww	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.154	0.218	<0.020	0.105	<0.020
Uranium	mg/kg ww	0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00059	0.0101	0.00171	0.0101
Vanadium	mg/kg ww	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.091	<0.020	0.024
Zinc	mg/kg ww	0.10 to 0.20	4.30	3.03	4.37	4.05	4.32	37.7	44.1	42.7	47.0	44.3
Zirconium	mg/kg ww	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

Notes: Where there are multiple detection limits for a single parameter, the range is provided. Sample identifiers follow the format 14-URS-LKTR-1M, where 14 = year collected; URS = Ursula Lake; LKTR = Lake Trout; 1= fish number 1; M = muscle tissue; L = liver tissue.
% = percent; mg/kg ww = milligrams per kilogram wet weight; < = less than.

Table D2: Lake Trout Muscle and Liver Tissue Samples from Lac du Sauvage, 2014

Parameter	Units	Detection Limit	14-LDS- LKTR-1M	14- LDS- LKTR-2M	14-LDS-LKTR-3M	14-LDS-LKTR-4M	14-LDS-LKTR-5M	14-LDS-LKTR-6M	14-LDS-LKTR-7M	14-LDS-LKTR-8M	14-LDS-LKTR-9M	14-LDS-LKTR-10M	14-LDS-LKTR-11M	14-LDS-LKTR-12M
% Moisture	%	0.10	70.0	75.0	76.0	74.9	74.7	74.2	73.7	75.0	68.5	72.2	76.0	75.7
Aluminum	mg/kg ww	0.40 to 1.0	3.33	0.70	2.08	0.65	0.44	1.04	0.95	<0.40	<0.40	0.99	0.61	<0.40
Antimony	mg/kg ww	0.0020	<0.0020	<0.0020	0.0044	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Arsenic	mg/kg ww	0.0040 to 0.0060	0.0601	0.0186	0.0118	0.0208	0.0206	0.0199	0.0186	0.0440	0.0742	0.0391	0.0163	0.0294
Barium	mg/kg ww	0.010	0.021	0.017	0.017	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	0.014	<0.010	<0.010
Beryllium	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Boron	mg/kg ww	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	mg/kg ww	0.0010 to 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/kg ww	4.0	70.2	208	104	198	71.4	127	114	200	240	121	127	126
Cesium	mg/kg ww	0.0010	0.0875	0.0526	0.0546	0.0652	0.0638	0.0593	0.0541	0.0945	0.0654	0.0881	0.0586	0.0730
Chromium	mg/kg ww	0.010 to 0.040	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.028	<0.010	<0.010	<0.010
Cobalt	mg/kg ww	0.0040	0.0054	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0065	<0.0040	<0.0040
Copper	mg/kg ww	0.020 to 0.040	0.336	0.310	0.240	0.219	0.289	0.193	0.219	0.314	0.314	0.285	0.340	0.318
Iron	mg/kg ww	0.60 to 1.0	6.29	2.60	5.46	2.32	2.56	3.65	2.39	2.53	4.79	3.86	2.70	2.74
Lead	mg/kg ww	0.0040 to 0.010	0.0164	0.0852	0.126	0.0620	<0.0040	0.0051	0.0113	0.0040	0.0072	0.0054	<0.0040	<0.0040
Lithium	mg/kg ww	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/kg ww	0.40	276	303	291	293	292	295	298	275	337	266	283	283
Manganese	mg/kg ww	0.010	0.142	0.301	0.192	0.129	0.101	0.128	0.110	0.108	0.167	0.114	0.108	0.109
Mercury	mg/kg ww	0.0010 to 0.013	0.272	0.167	0.164	0.230	0.147	0.188	0.149	0.190	0.120	0.148	0.169	0.241
Methyl Mercury	mg/kg ww	0.0010	0.0431	0.0280	0.0270	0.0310	0.0172	0.0266	0.0209	0.0444	0.0293	0.0183	0.0155	0.0266
Molybdenum	mg/kg ww	0.0040 to 0.0080	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0089	<0.0040	<0.0040	<0.0040
Nickel	mg/kg ww	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Phosphorus	mg/kg ww	2.0	2,550	2,810	2,840	2,710	2,790	2,700	2,780	2,790	2,940	2,470	2,840	2,670
Potassium	mg/kg ww	4.0	4,240	4,500	4,640	4,410	4,600	4,360	4,490	4,630	4,470	3,960	4,520	4,440
Rubidium	mg/kg ww	0.010	20.4	11.8	12.3	12.5	13.5	10.1	14.6	20.5	18.9	18.1	15.7	14.6
Selenium	mg/kg ww	0.010 to 0.020	0.144	0.168	0.167	0.185	0.166	0.203	0.167	0.127	0.155	0.145	0.147	0.166
Sodium	mg/kg ww	4.0	288	214	238	343	258	255	290	316	348	338	263	253
Strontium	mg/kg ww	0.010 to 0.020	0.115	0.422	0.156	0.314	0.113	0.145	0.168	0.359	0.420	0.225	0.229	0.175
Tellurium	mg/kg ww	0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	mg/kg ww	0.00040	0.0105	0.00504	0.00555	0.00614	0.00506	0.00707	0.00655	0.00885	0.0111	0.00661	0.00599	0.00674
Tin	mg/kg ww	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	mg/kg ww	0.00040	0.00071	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Vanadium	mg/kg ww	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	mg/kg ww	0.10 to 0.20	3.34	4.10	4.00	3.09	3.40	3.56	3.46	3.82	5.59	3.39	3.63	4.23
Zirconium	mg/kg ww	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

Table D2: Lake Trout Muscle and Liver Tissue Samples from Lac du Sauvage, 2014

Parameter	Units	Detection Limit	14-LDS-LKTR-13M	14-LDS-LKTR-14M	14-LDS-LKTR-15M	14-LDS-LKTR-16M	14-LDS-LKTR-17M	14-LDS-LKTR-18M	14-LDS- LKTR-1L	14-LDS-LKTR-2L	14-LDS-LKTR-3L	14-LDS-LKTR-4L	14- LDS-LKTR-5L	14-LDS-LKTR-6L
% Moisture	%	0.10	75.4	73.8	74.4	77.5	73.0	73.1	63.4	72.5	69.7	57.9	66.4	71.0
Aluminum	mg/kg ww	0.40 to 1.0	<0.40	<0.40	<0.40	<0.40	0.47	0.62	7.05	<1.0	4.5	3.0	<1.0	1.41
Antimony	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0030	<0.0020	0.0021
Arsenic	mg/kg ww	0.0040 to 0.0060	0.0384	0.0367	0.0185	0.0218	0.0638	0.0464	0.164	0.0375	0.0479	0.0528	0.0425	0.0452
Barium	mg/kg ww	0.010	<0.010	<0.010	<0.010	<0.010	0.015	0.022	0.044	0.019	0.075	0.056	0.042	0.040
Beryllium	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0021	<0.0020	<0.0020	0.0028	0.0020
Boron	mg/kg ww	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	mg/kg ww	0.0010 to 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.140	0.0612	0.0592	0.233	0.0575	0.161
Calcium	mg/kg ww	4.0	125	142	80.3	127	174	137	191	208	365	563	439	409
Cesium	mg/kg ww	0.0010	0.0663	0.0617	0.0525	0.108	0.0690	0.0672	0.0358	0.0272	0.0299	0.0259	0.0347	0.0346
Chromium	mg/kg ww	0.010 to 0.040	<0.010	<0.010	0.010	<0.010	<0.010	<0.010	0.075	<0.040	0.058	0.149	<0.040	0.048
Cobalt	mg/kg ww	0.0040	<0.0040	0.0057	<0.0040	0.0060	<0.0040	<0.0040	0.0653	0.0353	0.0962	0.0676	0.0753	0.145
Copper	mg/kg ww	0.020 to 0.040	0.298	0.393	0.255	0.194	0.328	0.245	36.2	28.9	11.5	33.7	19.2	19.8
Iron	mg/kg ww	0.60 to 1.0	2.13	3.02	1.54	2.37	3.54	2.34	66.1	106	80.5	880	58.7	469
Lead	mg/kg ww	0.0040 to 0.010	0.0040	<0.0040	<0.0040	0.0155	0.0092	0.0245	0.0147	0.012	0.027	0.221	0.022	0.125
Lithium	mg/kg ww	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/kg ww	0.40	303	304	309	292	267	268	168	193	215	195	202	197
Manganese	mg/kg ww	0.010	0.142	0.119	0.106	0.157	0.217	0.176	1.58	2.38	2.04	2.40	2.22	2.22
Mercury	mg/kg ww	0.0010 to 0.013	0.176	0.186	0.145	0.586	0.275	0.265	0.483	0.118	0.124	0.558	0.123	0.180
Methyl Mercury	mg/kg ww	0.0010	0.0148	0.0158	0.0124	0.0588	0.0300	0.109	0.163	0.0820	0.0554	0.0559	0.0475	0.0664
Molybdenum	mg/kg ww	0.0040 to 0.0080	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.205	0.138	0.203	0.221	0.195	0.237
Nickel	mg/kg ww	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.068	0.050	0.046	0.071	0.042	0.043
Phosphorus	mg/kg ww	2.0	2,790	2,990	2,820	2,560	2,650	2,320	3,440	3,720	4,270	3,370	3,910	4,410
Potassium	mg/kg ww	4.0	4,510	4,590	4,560	4,460	4,220	3,910	3,060	2,660	3,450	3,050	3,150	3,330
Rubidium	mg/kg ww	0.010	14.1	16.3	15.2	18.2	14.3	13.1	17.6	11.5	11.3	10.8	12.0	9.25
Selenium	mg/kg ww	0.010 to 0.020	0.166	0.150	0.169	0.125	0.156	0.153	1.31	1.11	1.52	1.90	1.24	2.18
Sodium	mg/kg ww	4.0	279	330	276	387	323	332	931	1,530	1,180	947	1,090	1,310
Strontium	mg/kg ww	0.010 to 0.020	0.203	0.219	0.118	0.152	0.301	0.185	0.282	0.333	0.396	0.373	0.386	0.624
Tellurium	mg/kg ww	0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	mg/kg ww	0.00040	0.00656	0.00647	0.00446	0.00697	0.00677	0.00803	0.0788	0.0545	0.0590	0.0603	0.0533	0.0944
Tin	mg/kg ww	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	mg/kg ww	0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00376	<0.00040	0.00109	0.00227	0.00057	0.00114
Vanadium	mg/kg ww	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.026	<0.020	<0.020	0.022	<0.020	<0.020
Zinc	mg/kg ww	0.10 to 0.20	3.57	4.35	3.96	3.02	5.22	3.24	37.2	39.1	42.2	45.2	43.5	40.4
Zirconium	mg/kg ww	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

Table D2: Lake Trout Muscle and Liver Tissue Samples from Lac du Sauvage, 2014

Parameter	Units	Detection Limit	14-LDS-LKTR-7L	14-LDS-LKTR-8L	14-LDS-LKTR-9L	14-LDS-LKTR-10L	14- LDS-LKTR-11L	14-LDS-LKTR-12L	14-LDS-LKTR-13L	14-LDS-LKTR-14L	14-LDS-LKTR-15L	14-LDS-LKTR-16L	14- LDS-LKTR-17L	14-LDS-LKTR-18L
% Moisture	%	0.10	68.2	76.1	69.0	75.6	63.0	60.5	64.1	52.7	64.2	76.9	73.9	62.5
Aluminum	mg/kg ww	0.40 to 1.0	<1.0	<0.40	1.00	0.57	1.29	1.2	2.51	0.47	0.73	0.70	0.65	1.47
Antimony	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Arsenic	mg/kg ww	0.0040 to 0.0060	0.0451	0.0467	0.142	0.0298	0.0708	0.0519	0.0699	0.0806	0.0687	0.0219	0.0463	0.0188
Barium	mg/kg ww	0.010	0.032	<0.010	0.020	0.013	0.022	0.030	0.050	0.029	0.053	0.010	0.015	0.021
Beryllium	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	mg/kg ww	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0025	<0.0020	0.0021	<0.0020	<0.0020	0.0024
Boron	mg/kg ww	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium	mg/kg ww	0.0010 to 0.0020	0.0894	0.0599	0.158	0.0420	0.0413	0.0753	0.0870	0.0528	0.0410	0.117	0.0688	0.209
Calcium	mg/kg ww	4.0	306	123	224	153	187	359	236	347	249	124	155	181
Cesium	mg/kg ww	0.0010	0.0277	0.0691	0.0324	0.0653	0.0342	0.0385	0.0289	0.0192	0.0207	0.0690	0.0526	0.0371
Chromium	mg/kg ww	0.010 to 0.040	<0.040	<0.010	0.068	<0.010	0.013	<0.040	0.026	<0.010	0.022	0.033	0.032	0.026
Cobalt	mg/kg ww	0.0040	0.0684	0.0338	0.0826	0.0416	0.0829	0.0539	0.128	0.0700	0.0558	0.0443	0.103	0.246
Copper	mg/kg ww	0.020 to 0.040	19.6	12.7	31.4	14.9	21.7	14.3	45.9	18.7	46.3	2.48	16.7	34.3
Iron	mg/kg ww	0.60 to 1.0	194	93.9	60.2	18.1	76.6	36.0	141	64.1	40.1	120	101	242
Lead	mg/kg ww	0.0040 to 0.010	0.011	0.0047	0.0058	<0.0040	<0.0040	<0.010	0.0086	<0.0040	0.0056	0.0043	0.0051	0.0043
Lithium	mg/kg ww	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/kg ww	0.40	204	230	175	245	165	187	200	136	174	233	172	176
Manganese	mg/kg ww	0.010	2.11	1.73	1.67	2.59	1.66	2.32	1.58	1.18	1.59	1.74	1.28	1.43
Mercury	mg/kg ww	0.0010 to 0.013	0.0876	0.257	0.177	0.157	0.132	0.202	0.165	0.179	0.123	0.779	0.537	0.318
Methyl Mercury	mg/kg ww	0.0010	0.0585	0.102	0.0853	0.0482	0.0528	0.134	0.0444	0.0783	0.0429	0.156	0.149	0.0492
Molybdenum	mg/kg ww	0.0040 to 0.0080	0.185	0.0800	0.192	0.0617	0.156	0.185	0.154	0.125	0.134	0.0920	0.171	0.220
Nickel	mg/kg ww	0.040	<0.040	<0.040	0.405	<0.040	<0.040	0.057	0.059	<0.040	<0.040	0.052	0.050	<0.040
Phosphorus	mg/kg ww	2.0	3,850	4,520	3,770	5,000	3,740	3,620	4,240	2,960	3,740	4,630	3,590	3,460
Potassium	mg/kg ww	4.0	3,200	4,560	2,960	4,620	2,690	2,560	3,370	2,230	2,630	4,290	3,180	3,350
Rubidium	mg/kg ww	0.010	13.6	24.8	15.4	35.1	13.8	12.3	12.7	10.6	10.4	29.3	15.6	14.6
Selenium	mg/kg ww	0.010 to 0.020	1.53	0.562	1.34	0.659	1.05	1.15	1.24	1.02	1.15	0.702	1.17	1.73
Sodium	mg/kg ww	4.0	970	713	1,370	1,110	1,320	1,310	1,070	1,360	1,520	1,260	1,480	839
Strontium	mg/kg ww	0.010 to 0.020	0.293	0.193	0.289	0.271	0.266	0.299	0.311	0.390	0.362	0.145	0.301	0.227
Tellurium	mg/kg ww	0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium	mg/kg ww	0.00040	0.0726	0.177	0.0724	0.194	0.0395	0.0813	0.0524	0.0334	0.0367	0.233	0.0691	0.0613
Tin	mg/kg ww	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Uranium	mg/kg ww	0.00040	<0.00040	<0.00040	0.00154	<0.00040	<0.00040	0.00066	0.00070	<0.00040	<0.00040	0.00106	0.00041	0.00119
Vanadium	mg/kg ww	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	mg/kg ww	0.10 to 0.20	41.1	33.0	40.3	29.7	33.8	39.4	47.8	30.1	46.8	24.0	35.8	40.9
Zirconium	mg/kg ww	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

Notes: Where there are multiple detection limits for a single parameter, the range is provided. Sample identifiers follow the format 14-LDS-LKTR-1M, where 14 = year collected.
LDS = Lac du Sauvage; LKTR = Lake Trout; 1= fish number 1; M = muscle tissue; L = liver tissue; % = percent; mg/kg ww = milligrams per kilogram wet weight; < = less than.