

GEOCHEMICAL ASSESSMENT REPORT

for work performed on the

CLIFF PROPERTY

Cliff 1 – 60	YD125143 – YD125202
Cliff 61 – 80	YD51181 – YD51200
Cliff 81 – 122	YD51301 – YD51342

NTS: 115H04

Latitude 61° 9' N, Longitude 137° 39' W

Located in the

Whitehorse Mining District, Yukon Territory

prepared by:

SCOTT BERDAHL

Claims owned by:

18526 Yukon Inc.

Work performed:

JUNE 23 - 25, 2012

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INTRODUCTION

18526 Yukon Inc.'s Cliff property is located immediately east of Killermun and Shutdunmun Lakes in the Ruby Range mountains of the southwestern Yukon Territory. The property was initially staked in 2010 to cover prospective ground for gold mineralization based on recent geological mapping and Yukon prospector JP Ross's historical results.

This report describes the June 2012 soil and stream geochemical sampling program conducted on the Cliff property by 18526 Yukon Inc. Contour soil lines were taken over parts of the property as a first pass assessment of mineral potential, complementing the limited but promising results of the property's 2011 soils program. Approximately 6.5 km of soil lines were completed at 50 and 100 m station spacing, and 7 stream sediment samples were collected from the property.

Results for 2012 are again very positive. A 1.6 kilometer stretch of anomalous soil samples along a contour line averaged 117 ppb Au, with samples up to 570.8 ppb Au and 1745.9 ppm As. A separate anomaly returned gold values up to 554.0 ppb Au above an exposure of the Ruby Range batholith, suggesting multiple mineralization types are present on the property. And stream sample taken from muskeg north of the contour soils program, along conspicuous fault structures, confirmed a strong arsenic anomaly there, initially detected in RGS streams data.

WORK HISTORY

Placer gold was discovered on Ruby Creek in June of 1903 by Skookum Jim Mason and Dawson Charlie, discoverers of the Klondike gold fields, along with Jim Boss. That summer saw a stampede of over 500 prospectors to the region, with claims staked on Fourth of July, Twelfth of July and surrounding creeks. Gold production soon commenced on these creeks and spread northwest to Gladstone, Cultus, Cyr and Swanson creeks. (*Gates, 2011*)

Prospector JP Ross conducted grassroots sampling in the area in the late 1980s, leading to his discovery of the Killermun gold occurrence north of Killermun Lake (Yukon MINFILES 105H 055 & 047, held at the time of writing by West Point Resources Inc.). On the present-day Cliff property, Ross's stream sediment sampling returned values as high as 480 and 460 ppb Au in silts (*Ross, 1987A & B*), and towards its southern edge he located a soil anomaly along a NNW trending linear feature that ran up to 850 ppb Au in soils (*Galambos, 1989 and Yukon MINFILE 115H 058*). On behalf of Noranda Mines, geologists Ken Galambos and G. McKay spent one day investigating the soil anomaly, but dismissed it as likely glacial in origin (*ibid.*).

18526 Yukon Inc. staked the area as the "Cliff" property in 2010, and collected 126 soil samples along contours lines over a small part of the property. Results included a broad zone of

anomalous gold and arsenic in soils on a mountain ridge along the southeastern edge of the property, and gold values ran up to 201.3 ppb Au elsewhere (*Berdahl, 2011*).

PROPERTY INFORMATION

At the time of the 2012 geochemical survey, the Cliff property consisted of 122 quartz claims. All claims are registered with the Whitehorse Mining Recorder in the name of 18526 Yukon Inc. (Table 1). Five claims, “Cliff” #123-127, were added to the property in 2012. The 2012 work program was conducted and paid for by 18526 Yukon Inc.

Table 1 - Claim Tenure Information

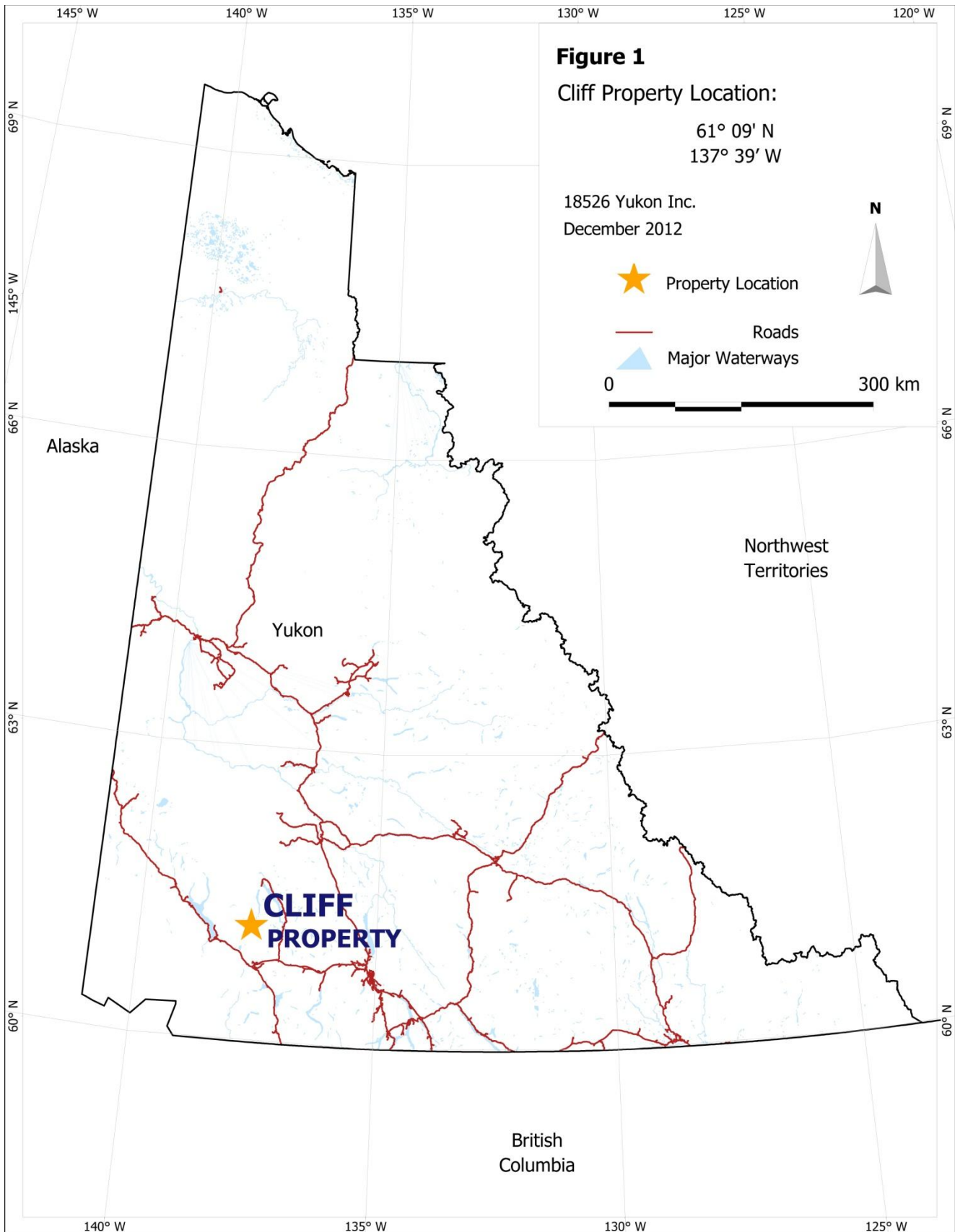
<u>Claim Name</u>	<u>Grant Numbers</u>	<u>Owner</u>
Cliff 1 – 60	YD125143 – YD125202	18526 Yukon Inc. - 100%
Cliff 61 – 80	YD51181 – YD51200	18526 Yukon Inc. - 100%
Cliff 81 – 122	YD51301 – YD51342	18526 Yukon Inc. - 100%

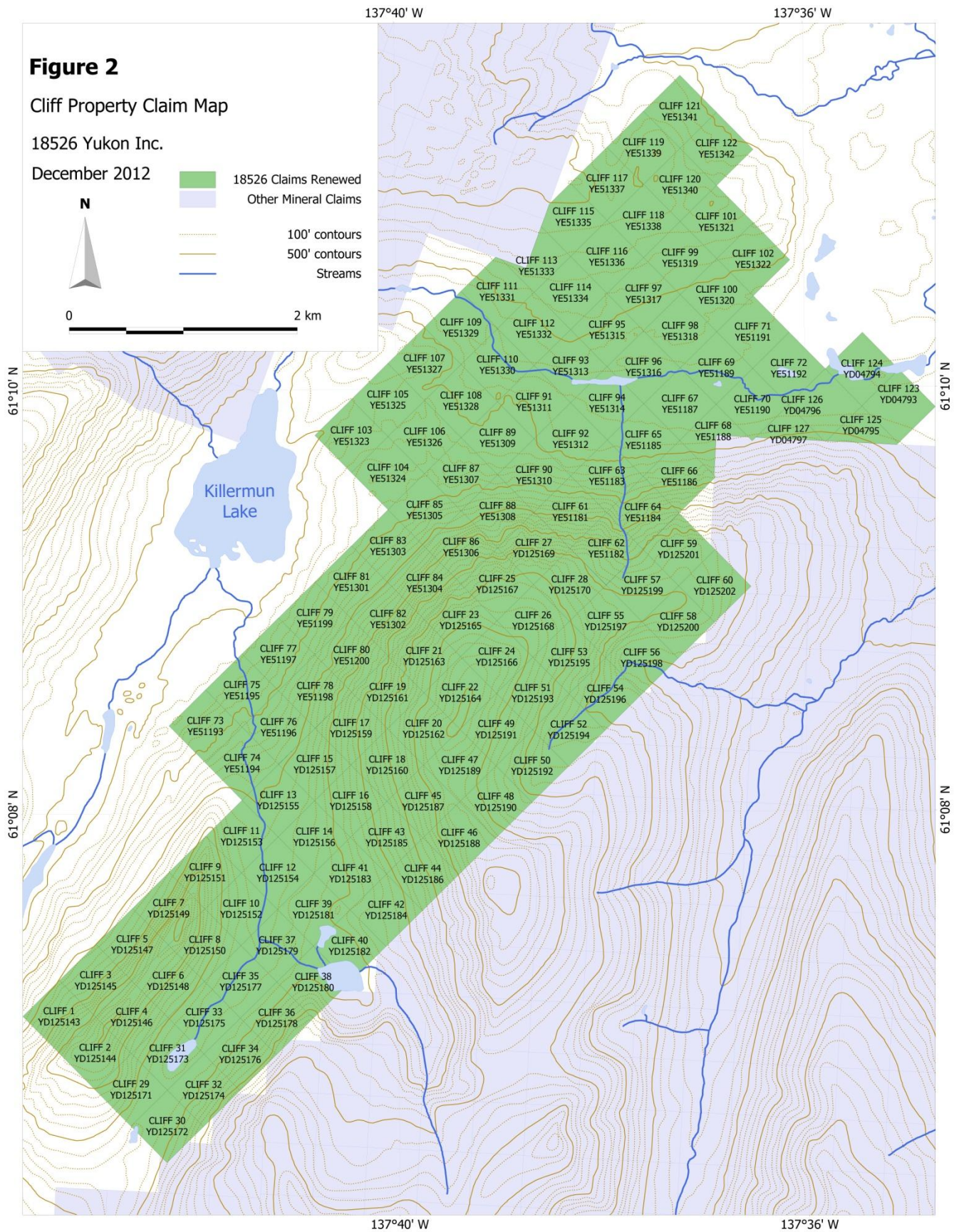
LOCATION AND ACCESS

The Cliff project is located in the Ruby Range, to the east of Kluane Lake, in the southwestern Yukon Territory, Canada.

The property sits immediately east of Killermun and Shutdunmun Lakes at approximately 61° 9' N latitude and 137° 39' W longitude, and roughly 150 km northwest of Whitehorse. It is 36 km northeast of Silver City and 40 km northwest of Haines Junction. Existing dirt roads, servicing nearby placer mines, run just over 10 kilometers from the property, and a gravel airstrip lies 17 km west of the present property boundary. Both Killermun and Shutdunmun Lakes are float plane accessible. Most of the property is helicopter accessible, and even the treed, low-lying valley at the northern end of the property has various abundant clearings for helicopter pickup (though some are swampy).

Access to the 2012 sampling program was provided by Horizon Helicopters of Whitehorse, Yukon, using an ASTAR helicopter based from a highway-side camp in a clearing near the west side of Kluane Lake, south of the outlet of Congdon Creek. This camp site was chosen only for ease of access to 18526 Yukon Inc.’s Gladstone property, northeast of the Cliff, where a regional streams survey was conducted immediately beforehand.





PHYSIOGRAPHY

18526 Yukon Inc.'s Cliff property is located in the Ruby Range, a region of rounded and glacially incised mountains to the east of Kluane Lake. The local climate is relatively dry, with nearby Haines Junction receiving roughly 30 cm of precipitation annually. Temperatures range from daily highs of 10 to 30°C in the summer months (May to August) and can drop as low as -40 to -50°C in the winter, with a high degree of variability at any time of year. The region is accessible for regular surface exploration from late May/early June through to September, though snows can linger on north facing slopes well into the summer, and the first winter snows can begin at high altitude as early as late August. Streams generally freeze up around October.

The Cliff property stretches along the eastern flank of the broad, northeast-southwest trending glacial valley housing Killermun and Shutdunmun lakes, covering a 2130 m (7000 ft) mountain plateau along its north end and a hanging tributary valley towards the southern end of the property, as well as a steep 1830 m (6000 ft) ridge separating the tributary valley from Shutdunmun Lake (Figure 2). Along its north and west sides, the mountain plateau drops sharply some 1000 m (3280 ft) into the Killermun-Shutdunmun valley, lending the property its name.

Vegetation on the Cliff property is dominantly alpine grasses and mosses, though dwarf birch, willow and black spruce are present in the lower elevations of the hanging valley. Overburden ranges from felsenmeer frost boils at high altitudes through talus on steeper slopes and glacial till in the hanging valley, with minor permafrost concentrated on north-facing slopes.

REGIONAL GEOLOGY

Much of the Cliff project area is underlain by the Kluane Schist, a metapelitic quartz-mica schist unit with minor carbonate and ultramafic inclusions (See Figure 5, modified from Israel, 2011). The Kluane Schist presently sits at the base of a northeast-dipping, structurally stacked crustal cross section, beneath the Ruby Range batholith and the Lower Carboniferous Yukon-Tanana terrane. Zircon dating and structural observations indicate that the Kluane Schist was deposited and subsequently emplaced beneath the Yukon Tanana terrane during a brief (>25 My) window in the late Cretaceous, prior to the bulk of intrusions associated with the Ruby Range batholith (Israel, 2011). Syn-to-post kinematic magmatic episodes exploited the structural corridor between the Kluane Schist and Yukon Tanana terrane, overprinting the original contact and forming the remainder of the batholith's mass (*ibid.*). Thin, isolated ultramafic units also occur within the schists, and are thought to be fragments of oceanic crust interleaved with the Kluane Schist during accretion (Mezger, 2000).

This tectonic framework of the Kluane Schist bears striking similarities to the Taku terrane of the Juneau Gold Belt, including ages, terrane affinities, structural juxtapositions and timing (Israel, 2011). The Taku terrane—host to significant orogenic deposits in southeast Alaska—was emplaced beneath rocks correlative with the Yukon Tanana terrane, while intrusions of the Coastal Plutonic Complex exploited this contact during deformation (McClelland, 2000; Israel, 2011).

A distinct gneiss unit of uncertain origin structurally overlies the Kluane Schist at certain points along its contact with the Ruby Range batholith. These gneisses may represent a metamorphic expression of the Kluane Schist, the Ruby Range batholith, or the overlying Yukon-Tanana terrane, or some combination thereof. In any case, the thrust fault contact between the gneiss unit and the Kluane Schist could be an important gold corridor (Israel, 2011), as both of prospector JP Ross's Ruby Range gold discoveries (near Gladstone Creek and Killermun Lake) are located near this structure. The northern parts of the Cliff property overlie this thrust and the gneissic unit (Figure 5).

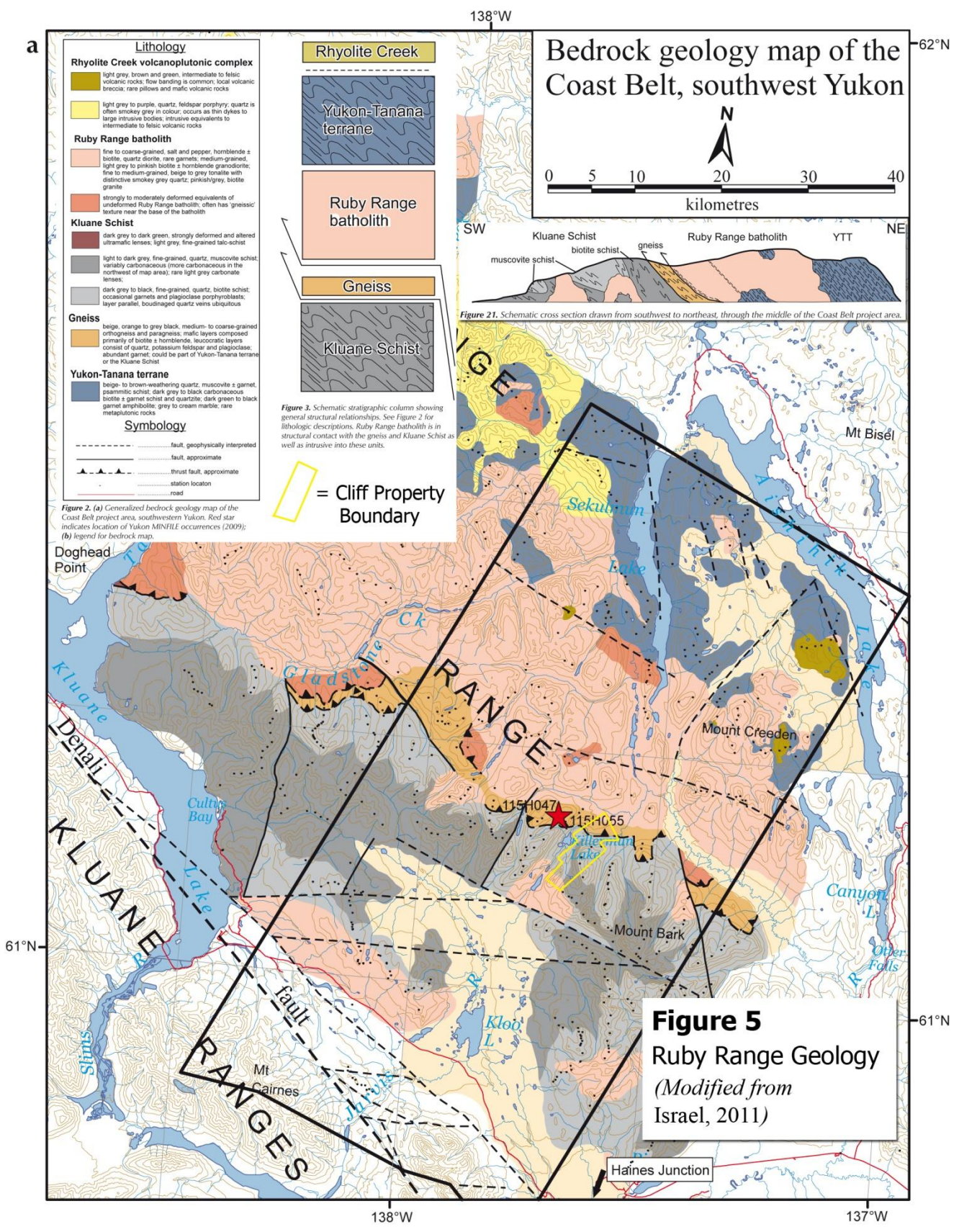
LOCAL GEOLOGY

The Kluane Schist comprises two main units—a light to dark grey, fine-grained muscovite schist and a higher-grade, dark grey to black biotite schist with occasional garnets and plagioclase porphyroblasts (Israel, 2011). Both are present on the Cliff property.

Towards the north end of the Cliff property a prominent north-dipping thrust fault puts the gneissic unit (described in Israel, 2011) overtop of the Kluane Schist. This fault, which trends east-west across the property, is clearly visible in aerial and satellite imagery as it defines a ~4 km linear stretch of small lakes along the outlet creek to Killermun Lake.

At the south end of the property a granodiorite plug, perhaps 5 to 6 kilometers in diameter, intrudes the Kluane Schist and is exposed on surface. At least one north-northwest trending linear feature cuts this granodiorite body and extends into the surrounding schists (Tempelman-Kluit, 1974 and Galambos, 1989).

Figure 5, modified from Israel, 2011, gives a good picture of both the regional and local geologic structures and setting for the Cliff property.



SURVEY DESCRIPTION

The 2012 geochemical survey of the Cliff property was performed from the 23rd to the 25th of June by a team of five workers hired and trained by 18526 Yukon Inc., plus a cook/coordinator present in camp. In all, 88 soil samples and 7 stream sediment samples were collected and analyzed (Figure 3).

Soils

Soil samples were taken at 50 and 100 m intervals along topographical contour lines, and along a ridge top towards the southern end of the property. Where obstacles—usually large talus fields—impeded sampling, samplers descended to continue sampling below the obstruction. Sampling conditions varied across the survey.

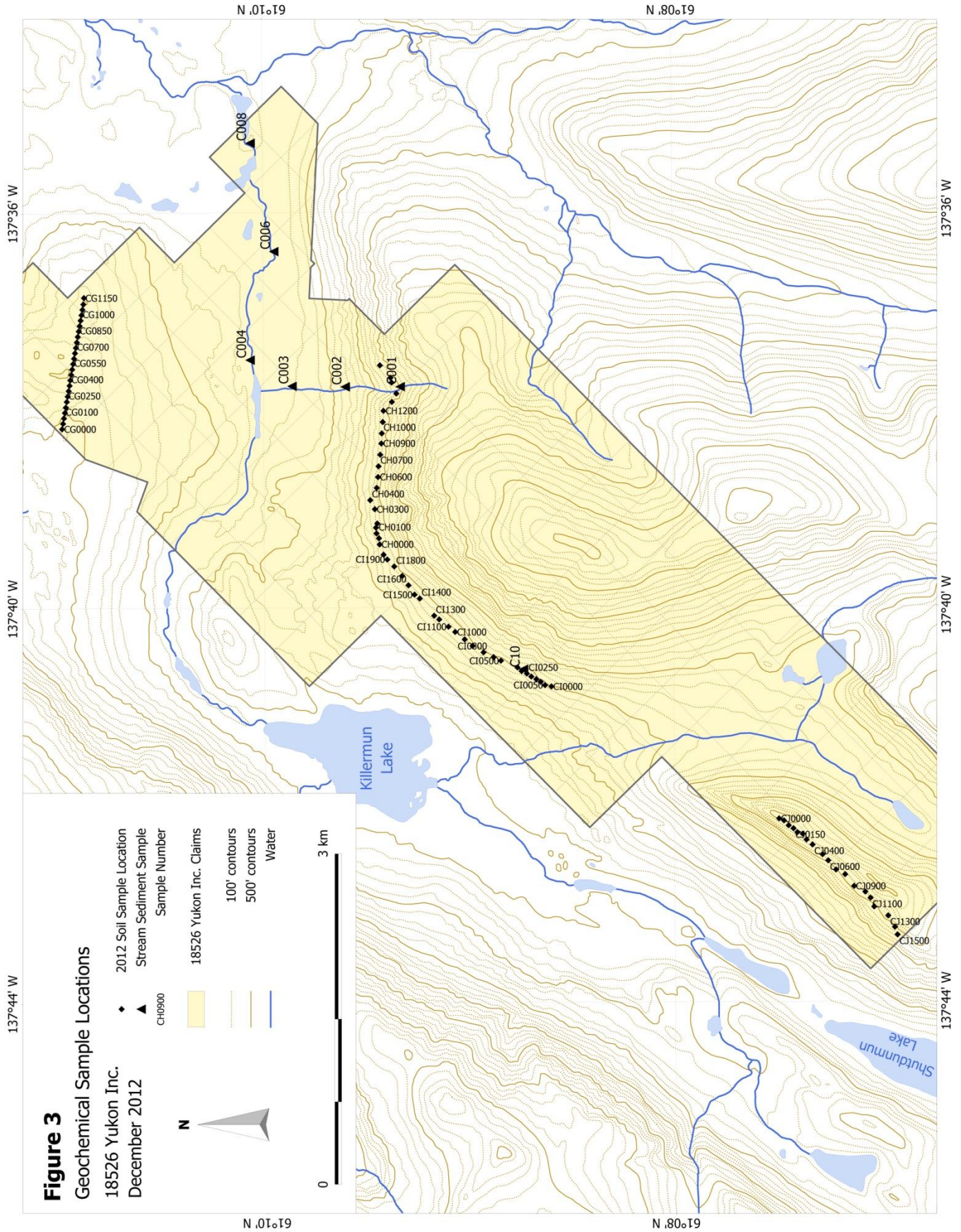
Sampling targeted the “C” horizon, though in areas where permafrost or other conditions made this impossible, samplers targeted the deepest mineral soil available. Sites without accessible mineral soils were skipped after multiple sampling attempts failed. Successful sample depths ranged from 10 to 80 cm, averaging about 39.5 cm throughout the survey. Soil augers were the primary tool used for sample collection, though picks and shovels were also used to assist with collection. Tools were cleaned of residual soil between sampling stations.

At each station, samples were laid on a clean plastic sheet to be photographed and described before being collected into KRAFT 4 x 6” paper sample bags. Precise sample locations were recorded at the time of sampling using handheld GPS devices. Each sample location was also photographed and marked with labeled orange flagging tape.

Streams

Seven stream samples were taken, mostly on the northern parts of the property. Large samples were collected, using shovels to collect materials from the active stream bed or flood deposits. Several hundred grams of fines were collected for each sample, sieved on site through 20 mesh (0.85 mm) screens and collected into cloth sample bags, which were subsequently sealed inside plastic bags to prevent cross-contamination between samples. Each sample site was photographed and described, with coordinates recorded on a handheld GPS device. Sample sites varied from high alpine brooks to mature, tertiary streams and stagnant, organic-rich swamps in broad valley bottoms.

After sampling, stream sediment and soil samples were analysed in the same manner. Samples were delivered to ACME Analytical Labs in Whitehorse, Yukon. Each sample was dried completely at 60 °C by ACME and screened to 180 microns (80 mesh) and shipped Vancouver, British Columbia for analysis. Thirty gram subsamples were processed using hot Aqua Regia digestion and analysed for 53 elements (ACME’s “1F06” package). After analysis, ACME disposed of the samples.



RESULTS

Figures 4A and 4B show gold and arsenic results from the 2012 geochemical survey. Multiple new zones of anomalous gold values were detected in soils.

A - Along the steep, north facing mountainside overlooking the north end of the Cliff property, a survey high of 570.8 ppb Au (0.57 grams per tonne) with 1745.9 ppm As in soils sits at the eastern end of a 1.6 kilometer stretch of contour soil samples elevated to anomalous in gold and arsenic. Samples along this stretch average 117.1 ppb Au and 245.9 ppm As. Some weakly anomalous (to 1.42 ppm Sb) antimony values are also present in this zone. A stream sediment sample (C001) taken from a steep, primary stream crossing the survey line returned 337.7 ppb Au, suggesting additional gold mineralization uphill of the survey line.

B - Southeast of Killermun Lake, along the same contour line (roughly 4500 feet), a smaller gold-arsenic anomaly was detected, with values up to 194.2 ppb Au in soils. A stream sediment sample in this zone returned 62.2 ppb Au with 138.5 ppm As. Historic stream sediment samples taken farther upstream along this same primary drainage by JP Ross returned up to 480 ppb Au (Ross, 1987A).

C - At the southwestern end of the property, elevated to anomalous gold values (to 554.0 ppb Au) were detected in soils over ~1 km where a ridge-top soil line overlies an exposed granodiorite plug. This anomaly has very low associated arsenic and antimony values, and high bismuth values likely coming from the intrusion.

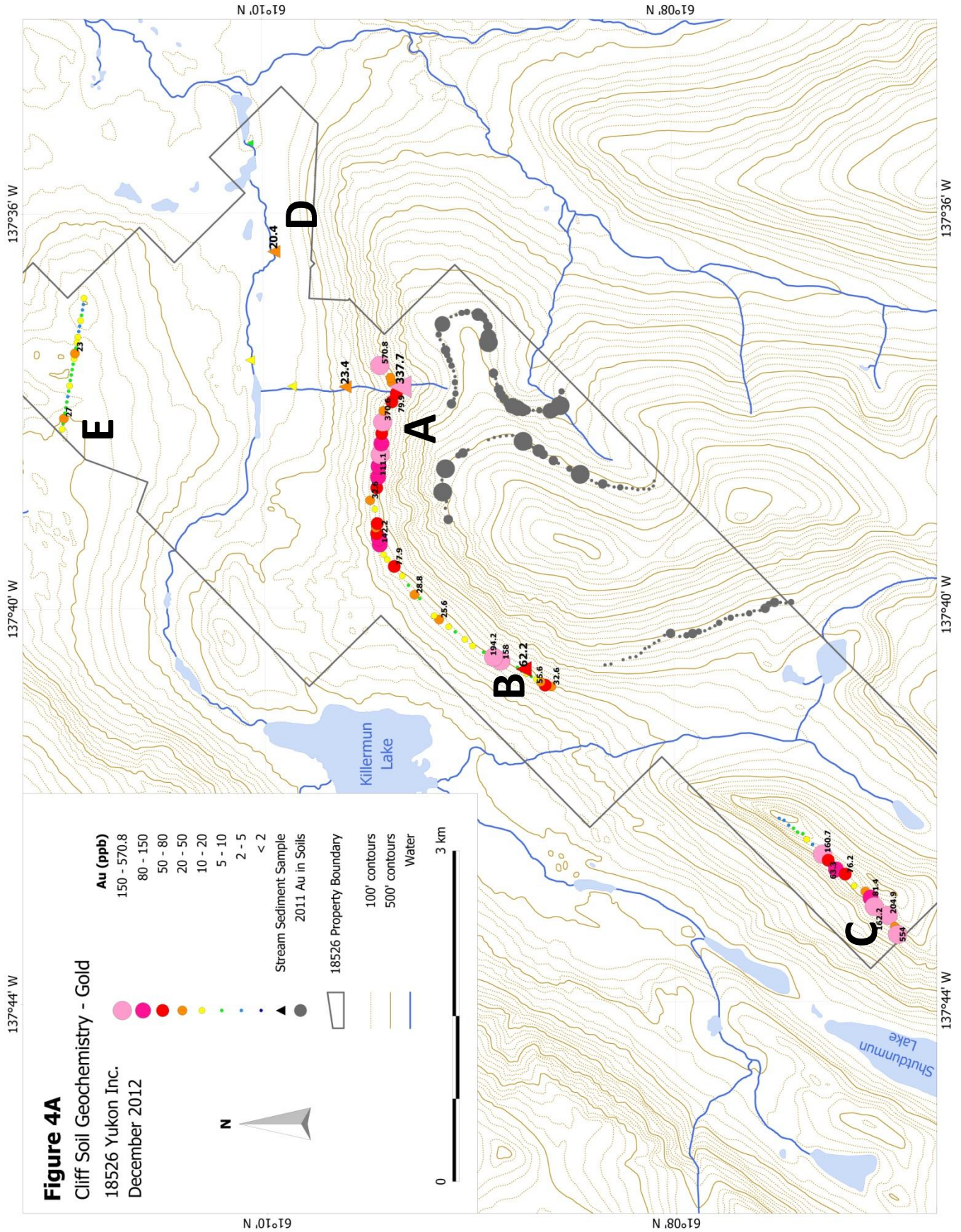
Two noteworthy arsenic anomalies were also found:

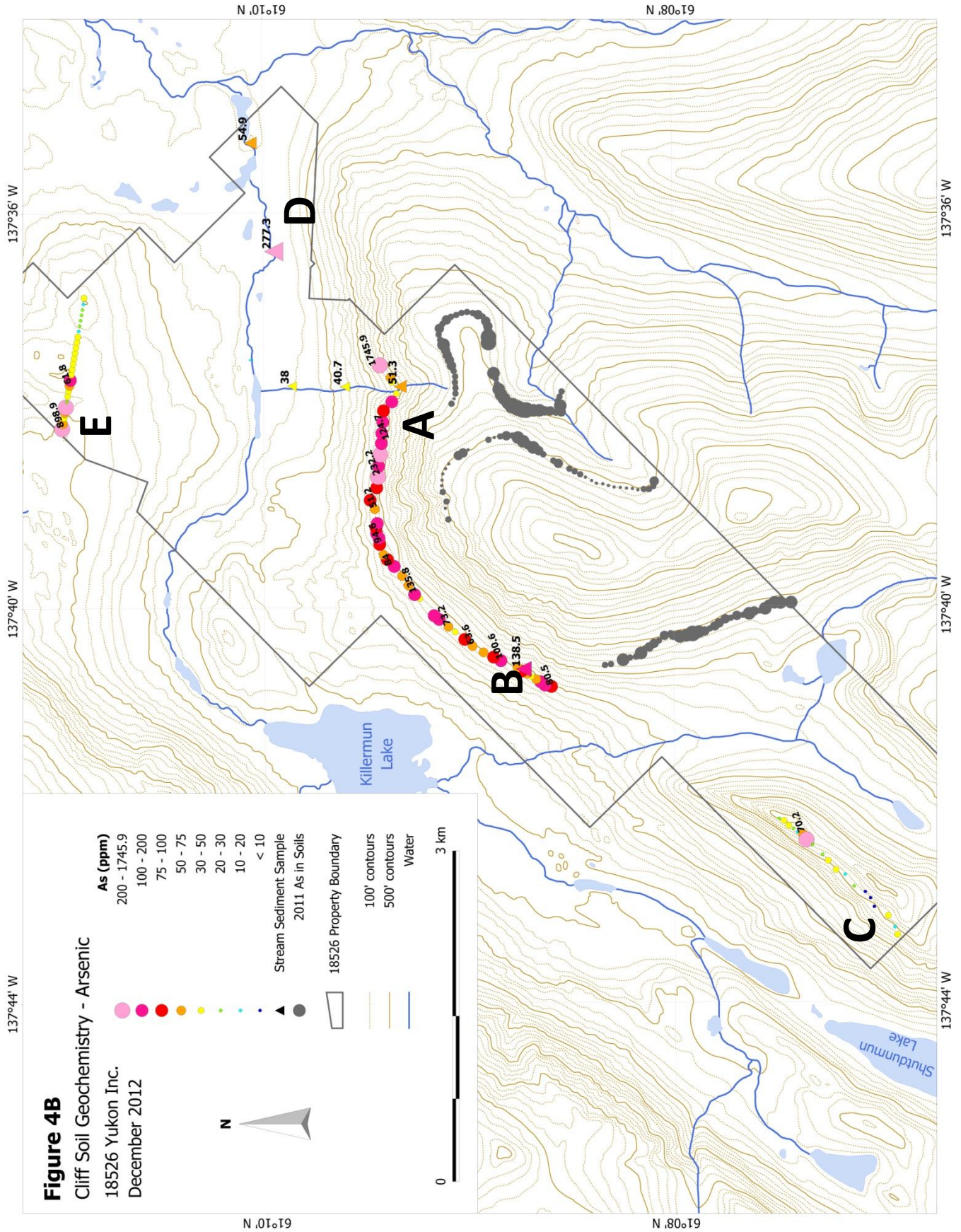
D - The east-west trending stream draining Killermun Lake, which follows the thrust contact between the Kluane Schist and the overlying gneiss unit, returned anomalous arsenic values of 277.3 ppm As (with 20.4 ppb Au) and 54.9 ppm As. Government RGS data also returned anomalous arsenic (483 ppm As) in a stream sediment sample here (Heon, 2003).

E - Two anomalous arsenic values (898.9 ppm As and 240.0 ppm As) were encountered in soils at the northern edge of the property, where it abuts West Point Resources' Killermun Gold project.

Silver, copper, lead, zinc and mercury values were generally low across the survey.

Original assay sheets listing additional elemental abundances are included as Appendix A. Exact sample locations and field notes are included as an Excel spreadsheet (file type .xls) on the accompanying compact disk.





INTERPRETATION AND CONCLUSIONS

The positive results of the 2012 geochemical survey highlight the Cliff property's potential to host economic gold deposits, and have revealed several new targets for further investigation.

The most prominent new anomaly, labeled "A" in Figure 4A, covers a wide swath of the Kluane Schist, and may have some relationship with the north-dipping fault exposed in the valley below. Associated arsenic and antimony numbers may be indicative of an orogenic gold system. Anomaly "B" is situated in the same rocks and may be part of the same system or mineralizing event.

The strong arsenic numbers constituting anomaly "D" are also of interest. These samples were taken in stagnant, swampy, organic-rich conditions, and thus may represent more significant anomalies along the fault at depth, perhaps related to the Killermun gold occurrences (Yukon MINFILES 115H 047 & 115H 055) to the northwest or the gold-arsenic values of anomaly "A" to the south, or both.

At anomaly "C", gold and bismuth values rise conspicuously where the single soil line crosses into a granodiorite body. These results are roughly 800 m to the northwest of a gold-in-soil anomaly over the granodiorite encountered in the late 1980s by prospector JP Ross (Yukon MINFILE 115H 058). Given the position of the 2012 results near the top of a steep, actively



Sample CJ1500 – 554.0 ppb Au in soils overtop the exposed granodiorite stock at anomaly "C".

weathering granodiorite ridge, they are much less likely to be glacial in origin. This challenges the glacial interpretation of Ross's discovery (Galambos, 1989), and opens the door to the idea of intrusion-related gold mineralization on and around the property. Also of note here is a long, NNW trending structure (Tempelman-Kluit, 1974 and Galambos, 1989) that crosscuts both Ross's anomaly and part of the 2012 "C" anomaly.

Additional staking is recommended. A fractional claim to the east of anomaly "A" should be staked to fill the existing gap between high Au-As values at the edge of the 2012 survey and the

western limit of Ryan Gold's "Sapphire" project. Several claims should be added at the southwestern end of the property, over the granodiorite body, to cover possible extensions of anomaly "C".

Geological investigation and rock sampling is recommended as an initial follow-up on anomalies "A", "B" and "C", as well as on the strong Au-As anomaly encountered in 2011. Further soil sampling would go a long way in tracking the source of anomaly "A", as well as establishing its connection (if any) to the soil anomalies encountered on the south side of the same ridge in 2011. A soils grid expanding from anomaly "C" would be useful in determining the scope of this anomaly and its relationship with Ross's findings. If warranted, mag and EM surveys in mineralized areas could be useful in establishing scope of the mineralized systems and delineating future drill targets.

REFERENCES

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- Ross, J.P., 1987 (B). "Geochemical Report: Spruce 1-4 claims, Wall 1-4 claim." Yukon Mining Assessment Report #091983.
- Tempelman-Kluit, D.J., 1974. "Reconnaissance geology of Aishihik Lake, Snag and part of Stewart River map areas, west-central Yukon." Geological Survey of Canada, Paper 73-21.
- Yukon MINFILES: 115H 047, 115 H 048, 115H 055 & 115H 058.

STATEMENT OF EXPENDITURES

Expenses for the 2012 program were as follows:

Helicopter	<i>Horizon Air – 3 hours at \$1650</i>	-	\$4950
Labour	<i>6 crew, 2.5 days @ \$300</i>	-	\$4500
Assays	<i>88+7 samples @ \$33</i>	-	\$3135
Fuel		-	\$1000
Report Prep.		-	\$1500
	Total	-	\$15,085

STATEMENT OF QUALIFICATIONS

I, JAMES SCOTT BERDAHL, hereby certify that:

1. I am a geologist contracted by 18526 YUKON INC., Box 11250, Whitehorse, Yukon, Y1A 6N4.
2. I am a graduate of the Massachusetts Institute of Technology, with a degree in geology (B.Sc., 2008).
3. I have been employed in mineral exploration, as a prospector's assistant or as a project geologist, annually for over a decade, and full-time for the past two years.
4. I supervised and assisted with the geochemical survey described above in June of 2012.
5. The data contained herein is true and correct to the best of my knowledge.

I also disclose that I have a direct interest in 18526 Yukon Inc. and thus a direct interest in the Cliff mineral property itself.



December 27, 2012



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Client: 18526 Yukon Inc.
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Whitehorse YT Y1A 6N4 Canada

Submitted By: Ron Berdahl
Receiving Lab: Canada-Whitehorse
Received: July 10, 2012
Report Date: July 19, 2012
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI12000303.1

CLIENT JOB INFORMATION

Project: Kluane Soils 2012
Shipment ID:
P.O. Number
Number of Samples: 109

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

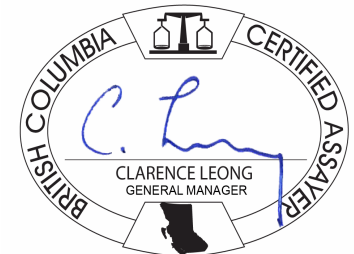
Invoice To: 18526 Yukon Inc.
P.O. Box 11250
Whitehorse YT Y1A 6N4
Canada

CC: Scott Berdahl

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include: Dry at 60C, SS80, 1F06.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Kluane Soils 2012
 Report Date: July 19, 2012

Page: 2 of 5

Part: 1 of 3

CERTIFICATE OF ANALYSIS

WHI12000303.1

Method	Analyte	Unit	MDL	1F30 Mo	1F30 Cu	1F30 Pb	1F30 Zn	1F30 Ag	1F30 Ni	1F30 Co	1F30 Mn	1F30 Fe	1F30 As	1F30 U	1F30 Au	1F30 Th	1F30 Sr	1F30 Cd	1F30 Sb	1F30 Bi	1F30 V	1F30 Ca	1F30 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
CG0000	Soil			0.87	31.98	4.09	57.0	46	38.9	15.0	345	2.93	898.9	0.5	12.5	1.4	29.0	0.08	0.22	0.36	73	0.38	0.078
CG0050	Soil			1.26	48.19	6.12	65.2	81	41.8	16.2	342	3.10	66.3	0.6	9.0	1.9	24.9	0.08	0.24	0.17	83	0.36	0.062
CG0100	Soil			0.70	46.45	5.86	65.9	70	38.8	14.1	411	2.90	44.7	0.5	27.0	2.5	30.1	0.07	0.28	0.14	74	0.57	0.081
CG0150	Soil			0.68	44.90	5.45	68.2	42	48.0	18.2	341	3.15	61.6	0.5	5.2	1.9	28.8	0.05	0.16	0.14	86	0.45	0.063
CG0200	Soil			1.34	25.01	7.07	67.1	128	31.8	15.4	280	3.30	240.0	0.5	5.3	1.6	24.2	0.18	0.34	0.19	86	0.35	0.044
CG0250	Soil			1.05	45.14	7.16	85.4	129	41.7	15.6	528	3.07	25.8	0.7	8.9	2.1	74.0	0.31	0.42	0.12	73	2.84	0.091
CG0300	Soil			1.13	49.43	6.46	69.2	141	43.5	16.6	563	3.13	31.9	1.0	3.9	1.9	58.0	0.23	0.42	0.12	74	2.06	0.070
CG0350	Soil			0.76	54.43	7.71	68.6	48	60.0	18.1	468	3.95	34.2	0.5	5.0	2.2	24.9	0.09	0.22	0.12	115	0.45	0.067
CG0400	Soil			0.63	48.69	4.70	63.3	44	57.8	18.2	332	2.94	61.8	0.6	10.6	2.4	34.0	0.06	0.21	0.12	79	0.45	0.034
CG0450	Soil			0.64	40.64	6.16	65.3	59	42.3	16.2	420	3.20	110.3	0.7	8.8	2.6	30.2	0.05	0.18	0.12	87	0.50	0.075
CG0500	Soil			0.60	41.94	4.44	63.1	33	43.9	15.2	360	3.03	47.6	0.6	5.2	2.9	22.4	0.03	0.25	0.12	78	0.29	0.023
CG0550	Soil			0.72	50.31	5.14	71.0	67	49.8	18.1	398	3.53	36.5	0.6	7.9	2.5	29.0	0.09	0.24	0.12	105	0.52	0.050
CG0600	Soil			0.50	34.41	4.24	60.7	18	40.8	14.8	343	2.75	37.5	0.5	8.2	2.5	26.1	0.04	0.19	0.10	72	0.35	0.044
CG0650	Soil			0.70	36.85	5.96	61.6	36	42.7	16.3	383	3.14	33.1	0.6	14.0	2.7	28.4	0.06	0.23	0.11	82	0.40	0.048
CG0700	Soil			0.70	29.57	3.78	53.4	99	40.3	15.1	371	2.80	45.3	0.6	23.0	1.8	28.6	0.08	0.20	0.10	76	0.57	0.062
CG0750	Soil			0.84	39.63	6.08	69.6	79	42.1	15.7	526	3.25	34.8	0.6	5.6	2.7	37.6	0.12	0.29	0.11	84	0.65	0.090
CG0800	Soil			0.53	48.20	4.30	66.9	96	50.2	19.1	440	3.11	47.4	0.5	13.5	2.8	35.5	0.06	0.29	0.12	86	0.61	0.083
CG0850	Soil			0.75	52.54	5.19	79.6	89	46.9	17.2	503	3.23	32.7	0.6	11.6	2.6	36.0	0.10	0.33	0.12	83	0.72	0.088
CG0900	Soil			0.34	35.46	2.81	72.6	78	68.6	24.5	396	3.13	16.7	0.5	2.2	2.3	39.8	0.07	0.17	0.05	127	0.83	0.065
CG0950	Soil			0.79	48.28	5.57	79.5	74	47.0	18.4	553	3.37	24.6	0.5	4.5	2.4	35.2	0.12	0.31	0.11	87	0.90	0.069
CG1000	Soil			1.01	48.96	6.66	73.9	132	47.6	19.8	651	3.23	25.1	0.8	10.2	2.4	36.0	0.19	0.46	0.13	76	0.64	0.045
CG1050	Soil			0.68	44.89	6.06	71.1	74	40.4	15.5	451	2.99	22.8	0.5	8.4	2.8	64.9	0.22	0.30	0.11	74	2.13	0.047
CG1100	Soil			1.06	33.21	4.87	57.9	57	39.8	15.9	338	2.94	20.7	0.5	3.0	1.6	23.7	0.08	0.29	0.09	77	0.44	0.030
CG1150	Soil			4.47	35.16	4.94	62.8	115	30.3	13.9	361	2.82	19.7	0.7	3.6	0.8	26.5	0.22	0.33	0.08	75	0.40	0.104
CG1200	Soil			0.99	46.92	4.06	51.7	106	37.8	15.7	424	2.56	39.2	0.4	12.9	1.6	215.5	0.21	0.34	0.10	65	7.96	0.040
CH0000	Soil			1.06	91.03	8.35	109.8	209	80.9	32.3	963	4.66	94.6	0.6	142.2	1.6	93.7	0.21	0.22	0.23	141	0.52	0.136
CH0050	Soil			0.84	78.14	6.68	115.5	176	72.2	28.2	841	4.50	115.1	0.6	109.2	1.7	66.6	0.20	0.28	0.27	136	0.44	0.127
CH0100	Soil			0.89	98.36	5.10	118.1	219	74.4	28.3	765	4.66	134.6	0.5	57.5	1.1	42.1	0.21	0.16	0.41	152	0.32	0.103
CH0150	Soil			0.73	70.04	4.86	99.3	158	67.2	22.9	724	4.72	83.7	0.5	20.4	1.2	30.4	0.11	0.13	0.21	157	0.28	0.102
CH0200	Soil			0.94	83.56	5.22	110.2	171	70.5	28.3	760	4.73	108.0	0.4	68.3	1.0	31.8	0.16	0.16	0.21	150	0.33	0.139



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Project: Kluane Soils 2012
 Report Date: July 19, 2012

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CERTIFICATE OF ANALYSIS

WHI12000303.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
CG0000	Soil	7.0	57.2	0.93	190.9	0.126	1	2.20	0.029	0.35	0.5	5.2	0.18	<0.02	12	0.3	0.22	6.4	1.85	<0.1	0.03
CG0050	Soil	8.5	60.1	0.89	171.6	0.140	1	2.17	0.017	0.26	0.3	7.0	0.19	<0.02	16	0.2	0.03	6.6	2.02	<0.1	0.05
CG0100	Soil	9.6	56.7	0.91	165.4	0.123	1	1.84	0.029	0.38	0.2	6.5	0.24	<0.02	15	0.3	0.05	5.8	1.91	<0.1	0.04
CG0150	Soil	7.0	65.7	1.05	149.2	0.166	1	2.40	0.024	0.35	0.3	6.7	0.24	<0.02	5	0.2	0.04	7.1	2.35	0.1	0.04
CG0200	Soil	7.2	65.3	0.90	152.9	0.166	1	2.18	0.013	0.23	0.1	4.4	0.14	<0.02	10	0.2	0.04	7.4	1.70	<0.1	0.05
CG0250	Soil	9.9	51.2	1.05	183.9	0.114	4	1.95	0.027	0.43	0.2	6.1	0.21	0.03	23	0.4	0.04	6.2	2.01	<0.1	0.05
CG0300	Soil	11.0	58.1	1.01	213.8	0.110	2	1.95	0.027	0.31	0.2	6.5	0.14	0.03	29	0.6	0.04	5.9	1.53	<0.1	0.05
CG0350	Soil	9.2	84.8	1.28	176.8	0.179	<1	2.83	0.017	0.56	0.2	10.6	0.29	<0.02	15	0.3	0.04	8.9	2.93	0.1	0.04
CG0400	Soil	8.5	80.8	1.09	130.2	0.152	<1	2.49	0.037	0.43	0.4	6.0	0.20	<0.02	13	0.2	<0.02	7.4	1.96	<0.1	0.05
CG0450	Soil	10.7	61.7	1.08	188.8	0.152	<1	2.18	0.024	0.37	0.3	7.7	0.25	<0.02	11	0.2	0.03	7.3	2.15	<0.1	0.06
CG0500	Soil	11.9	59.5	0.97	136.8	0.160	2	2.30	0.018	0.46	0.3	7.3	0.24	<0.02	8	0.4	0.03	7.0	2.12	0.1	0.06
CG0550	Soil	12.5	76.7	1.18	193.0	0.176	1	2.55	0.024	0.49	0.3	10.2	0.29	<0.02	16	0.5	0.03	7.6	2.76	<0.1	0.06
CG0600	Soil	9.2	57.5	0.93	127.2	0.145	<1	1.99	0.024	0.30	0.4	6.4	0.22	<0.02	6	0.3	<0.02	5.9	1.85	<0.1	0.05
CG0650	Soil	10.4	62.5	0.97	144.2	0.148	1	2.19	0.022	0.41	0.2	7.4	0.22	<0.02	12	0.3	0.02	6.9	2.02	<0.1	0.07
CG0700	Soil	8.1	57.1	0.91	173.4	0.122	<1	1.82	0.029	0.34	0.4	6.1	0.24	<0.02	13	0.3	<0.02	5.4	1.94	<0.1	0.03
CG0750	Soil	11.2	63.4	1.06	230.5	0.137	2	2.11	0.030	0.43	0.2	7.9	0.25	<0.02	20	0.3	0.02	6.6	2.11	<0.1	0.06
CG0800	Soil	10.7	77.4	1.07	204.2	0.140	2	2.03	0.029	0.30	0.2	7.3	0.26	<0.02	28	0.1	0.03	6.4	2.24	0.1	0.06
CG0850	Soil	10.8	62.4	1.08	227.5	0.145	2	2.17	0.029	0.38	0.3	7.8	0.28	<0.02	29	0.3	0.03	7.3	2.41	0.1	0.04
CG0900	Soil	6.4	210.7	1.67	234.0	0.221	<1	2.29	0.033	0.32	<0.1	4.1	0.13	<0.02	10	0.2	<0.02	7.1	1.81	<0.1	0.03
CG0950	Soil	9.1	67.9	1.11	205.6	0.141	1	2.19	0.022	0.33	0.2	8.3	0.24	<0.02	21	0.2	0.04	7.7	2.30	<0.1	0.08
CG1000	Soil	11.2	54.9	0.89	176.8	0.114	2	2.23	0.034	0.15	0.2	6.8	0.18	<0.02	18	0.5	0.03	6.4	1.56	<0.1	0.06
CG1050	Soil	10.1	55.1	1.06	166.2	0.122	2	2.04	0.045	0.30	0.2	6.9	0.22	<0.02	26	0.2	0.04	6.3	1.74	<0.1	0.07
CG1100	Soil	7.4	86.9	0.93	118.8	0.125	1	2.05	0.016	0.25	0.2	4.9	0.14	<0.02	18	0.3	0.02	5.9	1.24	<0.1	0.05
CG1150	Soil	11.0	46.5	0.82	158.6	0.125	2	2.77	0.016	0.19	0.1	4.0	0.14	0.10	44	0.9	<0.02	7.6	1.35	<0.1	0.03
CG1200	Soil	8.9	47.1	1.02	249.5	0.112	2	1.63	0.034	0.30	0.3	5.6	0.25	0.03	31	0.3	0.06	5.1	1.74	0.1	0.04
CH0000	Soil	4.8	109.0	1.50	480.7	0.226	<1	3.46	0.017	1.23	0.2	13.2	0.36	<0.02	13	0.5	0.11	11.1	4.26	<0.1	<0.02
CH0050	Soil	4.2	106.1	1.49	477.5	0.226	<1	3.15	0.022	1.18	0.3	12.5	0.38	0.02	13	0.4	0.04	10.7	4.26	0.2	<0.02
CH0100	Soil	3.9	93.8	1.44	545.5	0.265	<1	3.32	0.022	1.33	0.2	13.5	0.41	0.02	8	0.4	0.05	11.6	4.69	0.2	<0.02
CH0150	Soil	3.8	106.1	1.48	551.2	0.293	<1	3.41	0.019	1.34	0.3	14.7	0.40	0.02	15	0.4	0.10	11.5	4.74	0.2	<0.02
CH0200	Soil	3.7	93.8	1.36	553.3	0.283	<1	3.23	0.017	1.43	0.2	13.8	0.40	<0.02	10	0.4	0.07	12.2	4.73	0.2	<0.02

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Project: Kluane Soils 2012
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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F30 Nb	1F30 Rb	1F30 Sn	1F30 Ta	1F30 Zr	1F30 Y	1F30 Ce	1F30 In	1F30 Re	1F30 Be	1F30 Li	1F30 Pd	1F30 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
CG0000	Soil			1.29	25.1	0.5	<0.05	0.8	4.47	15.2	0.04	<1	0.2	28.9	<10	<2
CG0050	Soil			1.58	26.5	1.2	<0.05	1.8	5.08	16.6	<0.02	<1	0.3	27.1	<10	5
CG0100	Soil			1.28	26.7	1.1	<0.05	2.0	6.51	19.3	<0.02	1	0.4	22.8	<10	<2
CG0150	Soil			1.38	28.7	2.0	<0.05	1.6	3.91	18.5	0.02	<1	0.3	30.3	<10	<2
CG0200	Soil			1.76	28.9	0.6	<0.05	2.0	3.76	14.5	0.02	<1	0.2	28.2	<10	<2
CG0250	Soil			1.92	25.5	3.2	<0.05	2.7	7.39	19.0	<0.02	<1	0.3	24.9	<10	<2
CG0300	Soil			1.85	19.2	1.3	<0.05	2.0	8.43	20.0	0.02	2	0.2	24.2	10	<2
CG0350	Soil			1.14	36.8	4.2	<0.05	2.1	7.75	16.9	0.04	<1	0.4	39.5	<10	<2
CG0400	Soil			1.21	24.1	1.0	<0.05	1.9	4.45	18.8	0.03	<1	0.4	30.8	<10	<2
CG0450	Soil			1.09	31.7	2.9	<0.05	2.1	8.26	16.9	0.03	<1	0.4	29.2	<10	<2
CG0500	Soil			1.24	27.7	0.7	<0.05	2.3	7.21	21.8	0.03	<1	0.3	28.8	<10	<2
CG0550	Soil			1.43	35.8	1.9	<0.05	2.4	10.26	20.9	0.03	<1	0.4	35.8	<10	<2
CG0600	Soil			0.96	23.2	0.6	<0.05	1.9	4.63	19.5	0.03	<1	0.2	24.7	<10	<2
CG0650	Soil			1.15	27.6	2.4	<0.05	2.9	6.75	21.4	<0.02	<1	0.4	25.5	<10	3
CG0700	Soil			1.33	26.6	0.6	<0.05	1.3	6.71	14.5	0.03	<1	0.1	28.4	<10	<2
CG0750	Soil			1.17	31.2	2.6	<0.05	3.0	8.39	20.0	0.02	<1	0.3	24.7	<10	3
CG0800	Soil			0.79	29.8	0.6	<0.05	2.9	8.64	19.3	0.03	<1	0.2	24.9	<10	2
CG0850	Soil			1.03	30.4	1.1	<0.05	2.1	8.54	19.6	0.02	<1	0.3	31.5	<10	<2
CG0900	Soil			1.72	20.5	0.3	<0.05	1.4	4.16	11.7	<0.02	<1	0.2	29.7	<10	<2
CG0950	Soil			1.06	31.9	1.5	<0.05	3.2	6.67	17.8	0.04	<1	0.4	27.3	<10	<2
CG1000	Soil			1.27	16.6	0.6	<0.05	2.3	7.53	24.6	0.03	<1	0.5	22.3	<10	<2
CG1050	Soil			0.73	24.4	2.3	<0.05	3.4	8.12	21.6	<0.02	<1	0.4	25.0	<10	<2
CG1100	Soil			1.43	22.7	0.5	<0.05	2.2	4.25	15.5	0.02	<1	0.2	22.3	<10	<2
CG1150	Soil			1.83	15.9	0.8	<0.05	1.2	6.52	23.9	<0.02	<1	0.3	25.6	<10	<2
CG1200	Soil			1.60	23.6	0.5	<0.05	1.8	7.57	17.0	<0.02	<1	0.2	22.1	<10	<2
CH0000	Soil			0.54	56.0	2.2	<0.05	0.5	5.62	9.8	0.06	<1	1.4	48.3	<10	<2
CH0050	Soil			1.52	56.3	1.1	<0.05	0.8	5.20	9.1	0.06	<1	1.0	47.9	<10	<2
CH0100	Soil			0.91	63.0	1.4	<0.05	0.4	5.19	8.6	0.06	<1	1.0	48.4	<10	<2
CH0150	Soil			1.20	62.9	1.4	<0.05	0.4	4.37	8.2	0.05	<1	1.1	55.1	<10	<2
CH0200	Soil			0.68	62.3	1.4	<0.05	0.2	5.86	8.0	0.06	<1	1.2	53.8	<10	2

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CERTIFICATE OF ANALYSIS

WHI12000303.1

Method	Analyte	Unit	MDL	1F30 Mo	1F30 Cu	1F30 Pb	1F30 Zn	1F30 Ag	1F30 Ni	1F30 Co	1F30 Mn	1F30 Fe	1F30 As	1F30 U	1F30 Au	1F30 Th	1F30 Sr	1F30 Cd	1F30 Sb	1F30 Bi	1F30 V	1F30 Ca	1F30 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
CH0300	Soil			1.26	56.44	5.83	93.4	214	42.3	24.8	718	3.77	51.2	0.5	18.0	0.5	30.0	0.14	0.26	0.18	114	0.24	0.067
CH0400	Soil			1.36	70.11	6.87	85.9	242	61.4	25.5	587	3.92	78.4	0.6	32.6	1.2	34.1	0.16	0.29	0.21	113	0.29	0.057
CH0500	Soil			1.44	58.58	6.85	83.1	269	40.9	20.9	550	3.05	87.1	0.5	59.0	0.5	54.0	0.33	0.38	0.16	84	0.41	0.073
CH0600	Soil			1.41	94.78	6.91	109.2	266	75.7	29.5	805	4.52	232.2	0.5	111.1	0.9	54.7	0.13	0.25	0.28	134	0.37	0.094
CH0700	Soil			1.33	70.18	6.95	93.2	211	58.5	24.6	655	4.37	126.1	0.5	97.2	0.8	42.1	0.18	0.31	0.28	127	0.29	0.084
CH0800	Soil			1.62	96.16	9.02	107.4	512	79.4	37.4	725	4.92	1329	0.5	289.6	1.2	62.5	0.38	0.91	0.57	117	0.33	0.081
CH0900	Soil			1.56	97.11	7.23	104.7	244	78.2	29.7	851	4.84	124.7	0.4	99.8	0.9	46.5	0.15	0.37	0.22	131	0.37	0.075
CH1000	Soil			1.06	64.64	6.02	82.0	220	60.1	24.9	743	4.14	153.2	0.4	62.8	0.9	66.3	0.13	0.27	0.18	115	0.40	0.065
CH1100	Soil			1.49	46.68	7.62	84.4	529	40.9	16.7	486	3.73	122.4	0.5	370.6	0.7	32.3	0.36	0.77	0.21	96	0.39	0.056
CH1200	Soil			1.78	69.74	8.51	109.5	265	60.3	29.9	969	4.31	95.3	0.5	36.1	0.9	50.6	0.16	0.74	0.20	107	0.34	0.069
CH1300	Soil			1.33	78.90	6.90	115.8	141	72.6	32.1	928	5.10	101.1	0.4	52.0	0.9	74.8	0.12	0.63	0.19	140	0.40	0.085
CH1400	Soil			1.30	70.72	10.07	114.9	266	100.7	41.6	1090	5.24	46.4	0.3	79.9	1.2	118.2	0.09	1.13	0.13	106	0.91	0.127
CH1500	Soil			0.93	53.34	5.59	84.4	175	51.9	19.5	622	3.95	32.2	0.4	37.8	1.2	33.1	0.10	0.26	0.14	107	0.45	0.085
CH1600	Soil			1.14	64.09	5.57	102.3	129	64.4	26.5	983	5.04	57.0	0.5	26.1	0.9	41.9	0.10	0.20	0.17	145	0.38	0.068
CH1700	Soil			1.21	73.75	17.22	128.6	514	64.8	31.7	911	4.81	1746	0.6	570.8	1.7	116.1	0.95	1.42	0.50	94	0.67	0.106
CI0000	Soil			0.70	72.25	4.48	106.3	161	75.7	26.7	555	4.30	80.5	0.6	32.6	1.8	35.6	0.19	0.44	0.12	121	0.50	0.102
CI0050	Soil			0.76	77.62	4.68	110.9	139	80.3	30.0	611	4.49	159.0	0.5	55.6	1.6	40.7	0.20	0.46	0.27	124	0.49	0.121
CI0100	Soil			1.09	99.79	5.33	118.6	234	81.4	32.8	705	5.05	198.9	0.7	43.3	1.3	53.0	0.42	0.48	0.33	141	0.62	0.084
CI0150	Soil			0.98	64.74	3.92	96.3	104	75.2	25.9	419	3.82	58.0	0.5	13.0	1.4	31.7	0.12	0.23	0.13	109	0.46	0.074
CI0200	Soil			0.89	67.55	4.26	104.6	113	65.1	29.0	494	4.05	42.7	0.6	6.5	1.5	35.4	0.14	0.21	0.12	119	0.56	0.091
CI0250	Soil			0.65	51.50	3.94	82.6	73	51.8	22.4	372	3.38	54.8	0.4	12.7	1.3	19.7	0.24	0.19	0.14	93	0.27	0.047
CI0300	Soil			1.26	78.49	7.20	102.5	229	71.5	22.7	468	4.50	91.7	0.6	7.7	1.1	37.6	0.08	0.34	0.15	120	0.56	0.081
CI0350	Soil			0.84	57.55	4.20	87.1	27	66.3	20.6	359	3.86	72.8	0.5	8.4	1.9	22.9	0.09	0.19	0.16	116	0.29	0.040
CI0500	Soil			0.90	86.98	4.18	89.4	121	80.5	27.0	555	4.49	100.6	0.4	158.0	1.4	36.1	0.14	0.22	0.15	130	0.49	0.143
CI0600	Soil			0.80	67.58	4.04	84.6	152	72.5	24.2	513	4.32	98.0	0.4	194.2	1.3	37.9	0.17	0.28	0.14	123	0.54	0.136
CI0700	Soil			1.03	91.07	3.74	109.3	180	93.6	30.1	536	5.19	74.2	0.8	9.8	1.7	56.0	0.11	0.17	0.15	159	0.64	0.086
CI0800	Soil			1.06	98.75	2.98	73.5	144	68.7	23.7	390	3.50	63.6	0.7	14.7	1.1	65.9	0.10	0.22	0.09	116	1.34	0.052
CI0900	Soil			0.90	61.59	4.36	97.1	167	67.6	24.9	554	4.15	94.2	0.6	18.0	1.5	58.6	0.32	0.29	0.13	122	0.80	0.077
CI1000	Soil			0.84	73.67	3.11	73.4	147	52.9	20.3	369	3.51	48.1	0.5	6.8	0.8	49.3	0.09	0.23	0.10	106	0.64	0.056
CI1100	Soil			0.94	84.58	4.92	84.8	121	67.2	22.6	445	4.27	73.2	0.8	10.2	1.7	53.3	0.07	0.19	0.16	126	0.56	0.059

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Project: Kluane Soils 2012
 Report Date: July 19, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F30 La	1F30 Cr	1F30 Mg	1F30 Ba	1F30 Ti	1F30 B	1F30 Al	1F30 Na	1F30 K	1F30 W	1F30 Sc	1F30 Ti	1F30 S	1F30 Hg	1F30 Se	1F30 Te	1F30 Ga	1F30 Cs	1F30 Ge	1F30 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
CH0300	Soil			4.9	75.9	0.96	282.4	0.165	<1	2.42	0.013	0.54	0.1	7.4	0.26	0.05	26	0.5	0.07	9.1	3.40	0.1	<0.02
CH0400	Soil			6.7	76.9	1.13	251.0	0.181	<1	2.85	0.015	0.52	0.3	8.1	0.24	0.03	26	0.6	0.09	9.6	3.12	<0.1	<0.02
CH0500	Soil			5.5	59.5	0.76	223.2	0.134	1	1.95	0.015	0.41	0.4	6.2	0.19	0.09	59	0.5	0.06	7.4	2.82	<0.1	<0.02
CH0600	Soil			4.4	102.4	1.32	376.1	0.219	<1	3.06	0.016	1.06	0.5	11.2	0.34	0.04	15	0.6	0.12	11.2	3.97	0.1	<0.02
CH0700	Soil			5.1	87.7	1.21	371.8	0.206	<1	2.99	0.015	0.88	0.2	10.7	0.30	0.05	27	0.5	0.10	9.8	3.94	0.1	<0.02
CH0800	Soil			5.6	82.9	1.10	356.0	0.165	<1	3.10	0.013	0.73	0.2	10.0	0.28	0.04	17	0.6	0.15	9.0	3.95	<0.1	<0.02
CH0900	Soil			4.5	97.5	1.29	251.8	0.200	<1	3.31	0.013	0.73	0.2	10.5	0.34	0.03	29	0.4	0.07	10.8	4.24	0.1	<0.02
CH1000	Soil			4.2	82.7	1.28	307.8	0.173	1	3.40	0.034	0.72	0.2	8.2	0.28	0.03	35	0.4	0.08	10.2	3.10	<0.1	<0.02
CH1100	Soil			5.1	62.1	0.80	181.1	0.133	1	2.07	0.013	0.40	0.2	5.6	0.22	0.07	51	0.4	0.08	8.3	2.46	<0.1	<0.02
CH1200	Soil			5.9	75.5	1.06	265.0	0.152	<1	2.75	0.013	0.54	0.2	7.6	0.27	0.05	39	0.4	0.04	9.5	3.23	<0.1	<0.02
CH1300	Soil			4.5	116.5	1.78	387.7	0.216	<1	3.63	0.028	1.10	0.3	12.4	0.40	0.04	15	0.4	0.04	12.7	4.85	0.1	<0.02
CH1400	Soil			7.2	132.6	2.23	472.2	0.209	<1	3.40	0.021	1.03	<0.1	10.0	0.45	<0.02	31	0.3	0.03	12.0	4.51	0.1	0.05
CH1500	Soil			5.7	80.1	1.13	248.2	0.185	1	2.61	0.015	0.69	0.3	8.7	0.34	0.04	35	0.2	0.03	9.3	3.10	0.1	<0.02
CH1600	Soil			4.8	102.7	1.34	359.2	0.264	1	3.60	0.015	0.98	0.2	11.5	0.42	0.04	20	0.3	0.07	11.9	4.30	0.1	<0.02
CH1700	Soil			5.8	66.0	1.21	220.4	0.113	<1	3.12	0.027	0.54	0.2	8.2	0.23	0.07	22	0.5	0.04	9.2	2.52	0.2	<0.02
CI0000	Soil			6.4	92.4	1.46	333.6	0.180	4	2.79	0.032	0.97	1.8	10.3	0.34	0.04	18	0.3	0.06	10.2	3.60	0.1	<0.02
CI0050	Soil			5.6	90.8	1.48	377.7	0.182	<1	2.77	0.026	0.97	0.5	10.4	0.33	0.03	18	0.2	0.06	10.4	3.95	0.2	<0.02
CI0100	Soil			8.0	91.8	1.55	376.5	0.222	1	3.16	0.030	0.83	0.4	9.9	0.38	0.08	23	0.4	0.04	11.9	4.34	0.2	<0.02
CI0150	Soil			6.3	75.4	1.26	248.4	0.167	<1	2.45	0.026	0.75	0.3	8.7	0.30	0.03	21	0.3	0.05	9.3	3.26	0.1	0.02
CI0200	Soil			7.0	78.8	1.39	245.4	0.188	<1	2.65	0.030	0.60	0.3	9.4	0.28	0.03	28	0.3	<0.02	10.5	3.23	0.2	<0.02
CI0250	Soil			6.2	65.6	1.05	216.6	0.151	<1	2.26	0.014	0.60	0.4	7.5	0.26	0.03	16	0.2	0.05	8.6	2.98	0.1	<0.02
CI0300	Soil			5.8	78.0	1.33	326.1	0.163	<1	3.41	0.023	0.58	0.2	9.3	0.31	0.04	12	0.3	0.05	10.7	3.73	0.1	<0.02
CI0350	Soil			6.9	93.2	1.37	215.4	0.195	<1	2.69	0.028	0.67	0.3	9.5	0.29	0.02	17	0.2	0.05	10.4	3.34	0.2	<0.02
CI0500	Soil			5.0	94.0	1.44	367.1	0.217	<1	2.82	0.031	1.04	0.2	10.9	0.37	0.05	9	0.5	0.07	10.4	3.94	0.2	<0.02
CI0600	Soil			4.8	88.9	1.37	341.3	0.197	<1	2.69	0.034	0.92	0.3	9.9	0.31	0.04	11	0.4	0.05	9.4	3.57	0.1	<0.02
CI0700	Soil			7.6	127.1	2.00	562.5	0.293	<1	3.51	0.060	1.39	0.2	12.6	0.48	0.07	18	0.6	0.06	13.2	4.65	0.2	<0.02
CI0800	Soil			7.0	86.2	1.29	252.5	0.196	1	2.37	0.048	0.80	0.3	7.4	0.28	0.10	36	1.5	0.06	8.9	3.03	0.2	<0.02
CI0900	Soil			7.0	90.5	1.47	263.4	0.202	1	2.74	0.050	0.95	0.1	8.2	0.33	0.07	31	0.4	0.06	9.4	3.54	0.1	<0.02
CI1000	Soil			5.9	58.5	0.94	226.7	0.156	<1	2.07	0.040	0.45	0.3	6.0	0.23	0.07	23	0.6	0.05	7.8	2.49	0.2	<0.02
CI1100	Soil			8.4	86.4	1.41	299.2	0.206	<1	3.36	0.039	0.69	0.3	9.9	0.37	0.03	26	0.5	0.06	11.1	3.85	0.1	0.02



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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F30 Nb	1F30 Rb	1F30 Sn	1F30 Ta	1F30 Zr	1F30 Y	1F30 Ce	1F30 In	1F30 Re	1F30 Be	1F30 Li	1F30 Pd	1F30 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
CH0300	Soil			2.10	45.5	0.9	<0.05	0.6	3.44	9.5	0.04	<1	0.9	35.6	<10	<2
CH0400	Soil			2.29	39.2	1.0	<0.05	0.8	3.88	12.8	0.04	<1	1.0	50.6	<10	<2
CH0500	Soil			2.02	34.9	0.8	<0.05	0.6	2.90	11.0	0.02	<1	0.9	27.4	<10	<2
CH0600	Soil			1.88	56.3	1.7	<0.05	0.4	5.01	8.3	0.06	2	1.4	66.4	<10	<2
CH0700	Soil			2.35	48.4	1.0	<0.05	0.4	4.34	10.3	0.05	<1	1.0	51.2	<10	<2
CH0800	Soil			1.33	40.3	1.1	<0.05	0.3	4.81	11.4	0.05	<1	1.3	56.5	<10	<2
CH0900	Soil			1.59	51.5	0.9	<0.05	0.2	5.00	9.6	0.06	<1	1.7	73.9	<10	<2
CH1000	Soil			1.73	41.0	0.7	<0.05	0.4	4.49	9.0	0.04	<1	1.4	60.2	<10	<2
CH1100	Soil			2.49	35.5	0.6	<0.05	0.5	3.08	9.9	0.04	<1	0.7	28.4	<10	<2
CH1200	Soil			1.77	41.6	1.0	<0.05	0.3	4.53	12.1	0.05	<1	1.3	49.0	<10	<2
CH1300	Soil			1.28	59.8	1.0	<0.05	<0.1	5.04	9.9	0.06	<1	1.4	62.9	<10	<2
CH1400	Soil			0.74	59.1	1.0	<0.05	2.8	6.60	15.0	0.05	<1	0.8	44.6	<10	<2
CH1500	Soil			2.12	47.1	0.7	<0.05	0.6	5.39	11.6	0.03	<1	0.8	40.4	<10	2
CH1600	Soil			2.18	63.7	1.2	<0.05	<0.1	5.22	9.4	0.05	<1	1.6	54.4	<10	<2
CH1700	Soil			0.77	32.8	0.8	<0.05	0.2	7.11	12.1	0.06	<1	0.8	45.8	<10	<2
CI0000	Soil			0.79	52.3	0.8	<0.05	0.4	5.65	13.1	0.05	<1	0.4	45.0	<10	<2
CI0050	Soil			0.54	50.7	0.7	<0.05	0.1	5.80	11.6	0.04	<1	0.5	46.8	<10	<2
CI0100	Soil			2.14	57.2	0.8	<0.05	1.7	5.53	16.6	0.04	<1	0.6	54.0	<10	<2
CI0150	Soil			1.63	48.9	0.7	<0.05	0.4	4.29	12.5	0.04	<1	0.5	39.7	<10	<2
CI0200	Soil			1.45	44.9	0.7	<0.05	0.2	5.13	14.2	0.04	<1	0.5	41.9	<10	<2
CI0250	Soil			1.78	38.7	0.7	<0.05	0.2	3.57	12.5	0.04	<1	0.4	37.3	<10	<2
CI0300	Soil			2.45	48.7	1.0	<0.05	0.2	4.24	11.8	0.06	<1	0.9	50.1	<10	<2
CI0350	Soil			1.42	43.9	0.8	<0.05	0.3	3.29	14.3	0.04	<1	0.5	55.4	<10	<2
CI0500	Soil			0.78	55.9	1.1	<0.05	<0.1	6.10	10.2	0.06	<1	0.9	48.6	<10	<2
CI0600	Soil			0.82	50.3	0.7	<0.05	<0.1	5.90	10.0	0.05	<1	0.7	44.6	<10	<2
CI0700	Soil			2.18	78.1	1.0	<0.05	<0.1	6.08	15.8	0.06	<1	0.5	63.1	<10	<2
CI0800	Soil			3.21	47.1	0.5	<0.05	0.4	5.03	13.9	0.03	1	0.3	47.7	<10	<2
CI0900	Soil			2.31	49.7	0.9	<0.05	0.4	5.19	14.7	0.03	<1	0.4	47.6	<10	<2
CI1000	Soil			1.83	35.3	0.5	<0.05	0.4	4.32	12.1	0.03	<1	0.4	32.3	<10	<2
CI1100	Soil			2.41	52.7	1.0	<0.05	0.3	6.56	16.2	0.04	<1	0.6	49.3	<10	<2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F30 Mo	1F30 Cu	1F30 Pb	1F30 Zn	1F30 Ag	1F30 Ni	1F30 Co	1F30 Mn	1F30 Fe	1F30 As	1F30 U	1F30 Au	1F30 Th	1F30 Sr	1F30 Cd	1F30 Sb	1F30 Bi	1F30 V	1F30 Ca	1F30 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
CI1200	Soil			0.75	99.58	3.77	99.7	211	89.8	29.2	521	4.71	110.1	0.7	25.6	1.5	63.1	0.14	0.18	0.13	150	1.23	0.085
CI1300	Soil			0.77	78.47	3.86	96.2	147	76.7	28.4	512	4.73	122.6	0.6	12.4	1.4	53.9	0.11	0.15	0.13	153	0.88	0.053
CI1400	Soil			0.54	63.02	4.61	85.1	83	89.0	24.2	678	3.94	45.3	0.4	8.0	1.3	75.0	0.13	0.15	0.11	107	0.66	0.140
CI1500	Soil			1.61	87.91	7.21	82.5	229	77.6	24.5	504	4.03	135.8	0.9	28.8	2.1	69.5	0.08	0.23	0.19	116	0.57	0.076
CI1600	Soil			0.55	44.54	3.66	57.3	84	62.0	16.6	298	3.04	51.4	0.4	8.3	1.4	23.3	0.08	0.11	0.14	75	0.26	0.037
CI1700	Soil			1.14	88.99	3.63	93.4	236	62.5	27.8	663	4.89	69.1	1.1	12.6	1.5	64.4	0.16	0.19	0.12	144	0.76	0.074
CI1800	Soil			0.97	88.34	5.31	111.1	194	81.2	32.1	705	4.86	174.0	0.5	77.9	1.3	49.5	0.27	0.33	0.26	132	0.43	0.130
CI1900	Soil			1.27	80.03	4.89	103.7	138	64.0	27.2	527	4.06	84.0	0.6	18.8	1.5	41.5	0.11	0.24	0.19	116	0.52	0.104
CI2000	Soil			0.65	71.62	3.57	78.4	120	72.7	19.5	416	3.66	52.6	0.7	10.4	1.6	37.8	0.06	0.17	0.18	107	0.52	0.088
CJ0000	Soil			1.80	56.22	7.40	92.5	150	51.1	25.5	913	4.09	27.1	0.9	4.6	0.7	25.9	0.09	0.51	0.18	98	0.33	0.101
CJ0050	Soil			0.94	48.89	4.73	75.3	75	58.2	22.6	644	3.89	48.3	0.6	4.7	1.3	27.7	0.10	0.31	0.14	105	0.36	0.073
CJ0100	Soil			1.25	41.83	6.01	68.9	48	44.4	17.2	498	3.66	34.7	0.7	4.7	1.0	23.0	0.10	0.38	0.15	96	0.30	0.064
CJ0150	Soil			1.36	37.68	6.17	77.4	90	40.3	21.7	837	3.85	29.4	0.6	6.0	0.8	23.0	0.10	0.36	0.22	111	0.22	0.076
CJ0200	Soil			0.70	69.15	5.04	89.8	27	60.6	24.2	570	4.12	17.7	0.5	5.8	1.6	17.8	0.14	0.28	0.17	115	0.23	0.048
CJ0250	Soil			0.53	47.49	4.01	85.4	115	53.3	18.6	432	3.69	70.2	0.6	7.7	2.0	29.1	0.13	0.20	0.17	109	0.31	0.034
CJ0300	Soil			1.12	150.0	6.32	117.8	229	143.7	49.2	794	4.72	360.7	1.8	15.2	2.2	123.4	0.19	0.42	0.42	119	0.58	0.072
CJ0400	Soil			0.84	45.13	4.38	97.7	88	51.8	23.4	465	4.32	26.2	1.4	3.3	1.6	44.7	0.07	0.15	0.19	152	0.39	0.052
CJ0500	Soil			1.16	80.07	3.54	108.7	199	88.7	23.3	622	5.10	21.0	1.3	160.7	1.5	82.8	0.09	0.12	0.17	138	0.39	0.037
CJ0600	Soil			0.72	56.32	4.76	102.2	126	73.9	25.9	597	4.30	30.7	3.0	63.3	1.5	39.9	0.11	0.11	0.16	145	0.53	0.087
CJ0700	Soil			0.38	12.36	7.12	79.9	94	12.4	7.7	541	2.57	40.2	4.9	147.3	1.6	38.3	0.10	0.24	0.31	31	0.54	0.095
CJ0800	Soil			0.82	39.89	6.64	82.5	63	17.7	10.5	608	2.83	10.0	1.3	76.2	1.2	45.6	0.14	0.35	0.38	45	0.24	0.052
CJ0900	Soil			0.33	10.84	7.57	96.0	70	10.9	8.4	618	2.88	22.5	2.7	17.5	2.2	39.7	0.12	0.24	0.20	34	0.48	0.095
CJ1000	Soil			0.34	9.66	4.97	75.1	76	9.8	7.4	555	2.33	8.0	1.8	27.9	1.4	43.9	0.10	0.15	0.47	31	0.47	0.064
CJ1100	Soil			0.36	14.81	4.44	83.8	120	12.4	8.5	585	2.51	8.8	10.1	81.4	1.6	42.9	0.12	0.15	0.71	34	0.54	0.088
CJ1200	Soil			0.46	12.64	3.80	72.9	128	11.6	8.2	543	2.33	6.2	1.4	162.2	1.4	27.5	0.10	0.19	1.00	35	0.34	0.062
CJ1300	Soil			0.20	7.71	5.50	66.3	104	7.7	6.1	428	1.94	30.3	2.8	204.9	1.9	55.1	0.08	0.14	0.50	26	0.58	0.078
CJ1400	Soil			0.38	24.38	3.89	58.8	87	28.3	11.3	460	2.63	12.7	0.6	40.7	1.5	23.1	0.09	0.18	0.21	58	0.29	0.028
CJ1500	Soil			0.30	12.83	6.46	73.5	185	11.9	7.7	509	2.22	33.5	3.2	554.0	1.9	86.8	0.13	0.15	0.81	32	0.82	0.083
D0000	Soil			0.71	17.28	84.54	177.7	56	18.0	7.7	539	2.47	12.9	1.8	1.5	10.6	23.1	0.91	0.26	0.32	37	0.29	0.058
D0050	Soil			1.67	21.84	51.91	128.3	55	18.8	8.8	616	2.70	23.3	1.3	2.7	4.6	15.4	0.50	0.49	0.32	47	0.13	0.037



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Project: Kluane Soils 2012
 Report Date: July 19, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F30 La	1F30 Cr	1F30 Mg	1F30 Ba	1F30 Ti	1F30 B	1F30 Al	1F30 Na	1F30 K	1F30 W	1F30 Sc	1F30 Ti	1F30 S	1F30 Hg	1F30 Se	1F30 Te	1F30 Ga	1F30 Cs	1F30 Ge	1F30 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
CI1200	Soil			6.7	99.5	1.69	365.0	0.306	2	3.16	0.065	0.98	0.3	11.4	0.42	0.06	28	0.9	0.05	11.8	4.25	0.2	<0.02
CI1300	Soil			6.9	91.3	1.65	327.6	0.271	<1	3.38	0.062	0.76	0.5	10.6	0.38	0.05	19	0.6	0.06	12.1	4.25	0.2	<0.02
CI1400	Soil			5.3	101.5	1.73	370.2	0.205	<1	2.96	0.047	0.89	0.3	8.0	0.33	0.02	8	0.4	0.06	10.2	3.56	0.1	<0.02
CI1500	Soil			9.8	71.6	1.31	311.2	0.156	<1	3.46	0.035	0.51	0.3	8.1	0.28	0.03	41	0.7	0.08	11.2	2.96	<0.1	0.02
CI1600	Soil			6.0	80.6	1.23	163.5	0.167	<1	2.79	0.036	0.43	0.3	5.2	0.24	<0.02	12	0.3	<0.02	8.3	2.73	0.1	0.03
CI1700	Soil			8.3	82.7	1.85	353.7	0.300	<1	3.31	0.048	1.09	0.3	9.7	0.38	0.06	21	0.6	0.04	11.8	4.36	0.2	<0.02
CI1800	Soil			4.2	81.5	1.47	391.2	0.205	<1	3.12	0.028	1.14	0.5	11.0	0.37	0.03	12	0.4	0.07	11.0	3.95	0.2	<0.02
CI1900	Soil			6.4	76.6	1.28	296.3	0.202	<1	2.77	0.026	0.64	0.7	8.9	0.30	0.03	28	0.5	0.07	10.1	3.23	0.2	<0.02
CI2000	Soil			5.8	77.7	1.31	276.1	0.206	<1	2.88	0.043	0.58	0.2	9.9	0.25	<0.02	19	0.4	0.02	9.4	2.96	<0.1	<0.02
CJ0000	Soil			8.2	68.2	1.04	152.4	0.096	2	2.65	0.014	0.28	0.2	6.1	0.23	0.09	43	0.8	0.08	8.9	2.54	<0.1	<0.02
CJ0050	Soil			6.8	69.9	1.09	209.4	0.140	<1	2.56	0.015	0.42	0.3	7.7	0.28	0.04	17	0.6	0.04	8.5	2.85	<0.1	0.02
CJ0100	Soil			7.0	63.9	0.96	177.2	0.124	<1	2.44	0.012	0.36	0.2	6.4	0.24	0.05	36	0.4	0.06	8.2	2.40	<0.1	0.02
CJ0150	Soil			5.5	74.8	1.02	226.1	0.129	1	2.73	0.008	0.27	0.3	7.6	0.22	0.05	23	0.4	0.05	9.7	2.67	<0.1	0.02
CJ0200	Soil			6.6	78.6	1.23	214.1	0.178	2	3.22	0.011	0.38	0.3	9.2	0.31	<0.02	21	0.3	0.04	9.7	3.09	<0.1	0.05
CJ0250	Soil			7.6	85.9	1.29	311.0	0.157	1	2.84	0.031	0.53	0.2	9.5	0.30	0.03	18	0.2	0.05	9.2	3.31	0.1	0.03
CJ0300	Soil			9.2	111.5	1.65	352.2	0.178	1	3.66	0.039	0.67	1.0	10.1	0.37	0.06	17	0.4	0.04	10.9	4.84	0.1	<0.02
CJ0400	Soil			9.2	128.2	1.76	408.8	0.217	<1	3.17	0.024	0.67	0.2	10.7	0.34	0.05	13	0.4	0.04	12.3	4.25	0.1	<0.02
CJ0500	Soil			6.9	123.9	1.87	480.1	0.268	<1	3.56	0.036	0.85	0.4	13.5	0.42	0.22	9	0.4	0.04	12.1	4.91	0.1	0.03
CJ0600	Soil			6.0	136.5	1.91	473.9	0.234	<1	3.16	0.024	1.09	0.7	12.8	0.41	0.02	18	0.2	0.04	12.7	4.84	0.1	<0.02
CJ0700	Soil			8.5	19.1	0.68	144.9	0.080	<1	1.81	0.010	0.32	0.5	3.7	0.35	0.02	17	0.1	0.03	7.8	5.32	<0.1	<0.02
CJ0800	Soil			6.7	27.5	0.69	145.8	0.114	<1	1.92	0.011	0.20	0.4	4.2	0.35	0.03	15	0.2	0.03	7.9	4.66	<0.1	<0.02
CJ0900	Soil			7.7	18.2	0.72	208.0	0.151	<1	1.77	0.010	0.42	0.8	5.1	0.43	<0.02	17	<0.1	<0.02	8.8	6.91	<0.1	<0.02
CJ1000	Soil			5.5	15.9	0.60	202.4	0.150	<1	1.65	0.013	0.49	0.4	4.3	0.49	0.02	8	0.1	0.02	7.2	6.12	<0.1	<0.02
CJ1100	Soil			5.7	19.7	0.67	182.3	0.180	1	1.60	0.015	0.51	0.9	4.9	0.57	0.03	24	0.2	0.06	7.7	7.52	0.1	<0.02
CJ1200	Soil			5.7	18.6	0.60	183.5	0.159	<1	1.41	0.012	0.41	1.4	4.2	0.43	0.02	14	0.1	0.15	6.5	6.72	<0.1	<0.02
CJ1300	Soil			6.1	14.1	0.51	155.3	0.119	<1	1.55	0.014	0.39	1.1	3.7	0.36	<0.02	5	<0.1	0.04	6.3	5.47	<0.1	<0.02
CJ1400	Soil			5.4	41.5	0.82	161.0	0.146	<1	1.89	0.013	0.22	0.3	5.0	0.30	<0.02	13	0.1	0.03	6.1	3.49	<0.1	0.03
CJ1500	Soil			6.4	19.6	0.62	187.9	0.117	<1	2.17	0.025	0.44	1.7	4.3	0.40	<0.02	16	<0.1	0.06	6.9	6.94	<0.1	<0.02
D0000	Soil			22.9	19.9	0.40	104.7	0.115	1	1.49	0.013	0.18	0.1	4.3	0.23	<0.02	12	0.2	0.02	6.0	2.77	<0.1	0.04
D0050	Soil			18.2	26.3	0.46	78.9	0.090	<1	1.53	0.008	0.14	0.1	3.2	0.19	0.03	19	0.2	0.04	6.9	2.45	<0.1	<0.02



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Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
CI1200	Soil	2.48	67.0	0.7	<0.05	<0.1	6.10	13.4	0.05	<1	0.4	66.4	13	<2
CI1300	Soil	2.65	60.3	0.8	<0.05	<0.1	4.66	14.5	0.04	<1	0.5	67.2	<10	<2
CI1400	Soil	0.84	51.1	0.6	<0.05	0.3	5.57	12.3	0.04	<1	0.8	48.8	<10	<2
CI1500	Soil	2.10	42.1	0.7	<0.05	0.7	7.39	19.5	0.03	<1	1.2	52.7	<10	<2
CI1600	Soil	2.08	27.3	0.5	<0.05	0.9	3.13	12.3	0.03	<1	0.4	36.5	<10	<2
CI1700	Soil	1.86	67.7	0.6	<0.05	<0.1	5.45	16.1	0.03	<1	0.4	57.8	<10	<2
CI1800	Soil	0.80	54.1	0.8	<0.05	<0.1	5.94	8.9	0.06	<1	0.9	49.5	<10	<2
CI1900	Soil	2.08	45.4	0.8	<0.05	0.4	4.88	12.5	0.05	<1	0.7	55.1	<10	<2
CI2000	Soil	1.60	38.0	0.7	<0.05	0.3	4.81	12.0	0.03	<1	0.6	48.5	<10	<2
CJ0000	Soil	1.50	36.5	0.7	<0.05	0.3	5.58	16.6	0.04	<1	0.7	42.5	<10	2
CJ0050	Soil	1.62	39.0	0.7	<0.05	0.8	4.22	14.0	0.05	<1	0.6	42.1	<10	<2
CJ0100	Soil	1.90	33.0	0.7	<0.05	0.6	3.80	14.3	0.04	<1	0.6	35.7	<10	<2
CJ0150	Soil	1.79	27.2	1.0	<0.05	0.4	3.38	11.7	0.06	<1	0.7	35.1	<10	<2
CJ0200	Soil	2.04	33.5	1.0	<0.05	1.7	4.17	17.7	0.05	<1	0.8	36.2	<10	<2
CJ0250	Soil	1.23	38.1	0.9	<0.05	0.8	3.97	19.2	0.05	<1	0.5	38.2	<10	<2
CJ0300	Soil	1.23	52.9	1.1	<0.05	0.4	6.83	23.1	0.05	<1	1.6	70.6	<10	<2
CJ0400	Soil	1.85	52.2	1.1	<0.05	<0.1	5.90	20.4	0.04	<1	0.6	53.6	<10	<2
CJ0500	Soil	0.69	61.3	1.3	<0.05	0.7	4.50	13.5	0.06	<1	1.5	66.1	<10	<2
CJ0600	Soil	0.89	63.1	1.3	<0.05	<0.1	5.36	13.6	0.05	<1	0.7	58.7	<10	<2
CJ0700	Soil	1.13	40.9	1.7	<0.05	0.3	9.00	18.1	0.03	<1	0.6	56.0	<10	<2
CJ0800	Soil	1.81	36.1	1.6	<0.05	0.4	6.42	15.8	0.03	<1	0.5	66.7	<10	<2
CJ0900	Soil	1.09	53.7	2.5	<0.05	0.3	11.04	17.4	0.04	<1	0.5	77.6	<10	<2
CJ1000	Soil	1.91	61.4	2.3	<0.05	0.2	7.97	13.1	0.03	<1	0.4	71.4	<10	<2
CJ1100	Soil	2.17	69.2	2.5	<0.05	0.5	10.69	12.9	0.04	<1	0.3	70.5	<10	<2
CJ1200	Soil	1.87	53.3	2.0	<0.05	0.3	8.77	13.2	0.03	<1	0.2	61.0	<10	<2
CJ1300	Soil	0.88	43.2	2.0	<0.05	0.5	7.89	13.3	0.03	<1	0.4	59.7	<10	<2
CJ1400	Soil	1.18	29.0	1.2	<0.05	0.9	3.87	15.1	0.03	<1	0.3	39.4	<10	<2
CJ1500	Soil	1.10	49.2	2.3	<0.05	0.5	7.94	14.3	0.03	<1	0.5	62.4	<10	<2
D0000	Soil	2.82	26.3	2.6	<0.05	2.0	9.28	49.1	0.05	<1	0.8	33.8	<10	<2
D0050	Soil	1.88	22.6	2.5	<0.05	0.6	5.15	40.5	0.04	<1	0.6	27.2	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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CERTIFICATE OF ANALYSIS

WHI12000303.1

Method	Analyte	Unit	MDL	1F30 Mo	1F30 Cu	1F30 Pb	1F30 Zn	1F30 Ag	1F30 Ni	1F30 Co	1F30 Mn	1F30 Fe	1F30 As	1F30 U	1F30 Au	1F30 Th	1F30 Sr	1F30 Cd	1F30 Sb	1F30 Bi	1F30 V	1F30 Ca	1F30 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
D0100	Soil			1.33	21.53	28.35	139.8	272	19.4	8.6	522	2.78	19.3	1.8	2.2	6.3	15.7	0.91	0.41	0.29	45	0.16	0.042
D0150	Soil			1.37	36.75	27.11	155.2	168	17.4	8.9	541	2.70	16.5	2.3	1.0	5.0	17.0	1.38	0.38	0.46	47	0.16	0.051
D0200	Soil			1.85	55.34	19.59	185.4	339	25.3	10.4	538	2.99	20.5	2.4	6.0	3.8	18.1	2.05	0.41	0.75	53	0.19	0.039
D0250	Soil			5.21	39.54	20.56	157.2	269	26.3	12.2	660	3.27	24.1	2.8	1.4	3.2	21.9	1.53	0.47	1.05	59	0.22	0.057
D0300	Soil			1.33	44.36	29.14	132.4	278	23.8	10.4	536	2.59	23.2	2.1	2.7	5.5	18.2	1.10	0.37	0.49	49	0.23	0.049
D0350	Soil			2.07	27.26	30.59	154.7	213	18.7	8.8	554	2.82	25.1	1.8	2.8	3.4	18.3	0.76	0.46	0.58	44	0.20	0.055
D0400	Soil			1.09	54.57	24.25	160.7	265	16.9	7.9	523	2.48	24.3	1.8	1.0	8.3	16.1	1.22	0.26	0.54	37	0.20	0.038
D0450	Soil			1.49	59.09	21.05	131.4	488	16.8	8.2	459	2.13	27.9	2.4	1.0	4.2	19.7	1.60	0.31	0.55	39	0.24	0.065
D0500	Soil			0.94	39.76	19.16	128.3	213	16.5	7.2	366	2.05	29.2	1.6	2.9	7.0	18.8	1.24	0.24	0.38	39	0.24	0.049
D0550	Soil			1.84	48.84	29.94	158.6	401	29.6	12.8	577	3.14	46.5	2.0	0.9	4.4	22.2	1.53	0.48	0.48	58	0.23	0.047
D0600	Soil			0.93	52.95	19.28	130.3	511	17.1	8.1	426	2.32	55.6	2.2	4.5	6.4	23.7	1.03	0.35	0.37	39	0.33	0.087
D0650	Soil			0.98	51.27	19.69	126.4	403	20.0	8.3	414	2.36	47.3	1.8	3.1	5.5	21.8	1.31	0.30	0.26	43	0.29	0.066
D0700	Soil			1.46	54.65	21.85	131.6	370	19.8	7.8	379	2.71	68.7	2.1	1.6	4.5	18.2	1.84	0.39	0.33	50	0.20	0.026
D0750	Soil			1.24	29.48	32.73	157.1	121	21.9	9.9	496	2.98	46.2	1.3	3.1	5.6	15.7	0.77	0.36	0.26	52	0.16	0.034
D0800	Soil			0.89	29.63	107.1	209.2	90	16.7	8.6	458	2.42	47.6	1.6	1.6	7.5	16.6	1.27	0.29	0.31	39	0.21	0.051
D0850	Soil			0.66	21.10	38.00	191.6	220	14.9	6.8	497	2.26	37.3	1.6	2.9	9.2	17.5	1.43	0.25	0.23	38	0.27	0.068
D0900	Soil			0.32	5.76	15.43	97.1	62	6.1	4.9	460	1.91	7.9	1.2	<0.2	13.5	41.0	0.59	0.11	0.19	19	0.59	0.052
D0950	Soil			0.76	10.67	17.17	93.5	137	10.3	5.8	429	2.05	20.8	1.4	<0.2	7.3	50.7	0.50	0.20	0.14	25	0.92	0.056
D1000	Soil			0.90	16.60	24.85	121.1	70	14.3	7.3	435	2.53	40.2	1.6	4.1	7.2	13.9	0.75	0.29	0.19	37	0.19	0.036



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Project: Kluane Soils 2012
 Report Date: July 19, 2012

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CERTIFICATE OF ANALYSIS

WHI12000303.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
D0100	Soil	21.6	24.6	0.45	106.0	0.108	1	1.55	0.009	0.17	0.2	3.8	0.25	0.02	14	0.1	0.03	7.3	2.86	<0.1	0.02
D0150	Soil	17.3	20.2	0.43	103.0	0.092	1	1.54	0.011	0.15	0.2	3.2	0.25	0.03	14	0.2	0.05	7.3	2.98	<0.1	0.02
D0200	Soil	16.0	29.4	0.56	118.5	0.112	1	1.95	0.008	0.15	0.3	3.8	0.25	0.03	23	0.2	0.04	7.6	2.80	<0.1	0.03
D0250	Soil	14.7	32.5	0.63	132.8	0.108	1	2.06	0.009	0.16	0.4	4.1	0.28	0.04	21	0.2	0.04	8.5	3.09	<0.1	0.03
D0300	Soil	15.1	27.0	0.54	117.7	0.111	1	1.78	0.010	0.14	0.4	3.8	0.22	0.02	25	0.2	0.03	6.3	2.53	<0.1	0.04
D0350	Soil	15.9	23.3	0.46	101.7	0.095	<1	1.46	0.010	0.16	0.3	3.3	0.31	0.06	32	0.2	0.03	8.0	3.71	<0.1	<0.02
D0400	Soil	20.9	19.4	0.44	114.3	0.119	<1	1.52	0.010	0.17	0.5	4.0	0.34	<0.02	15	0.1	0.02	6.5	4.18	<0.1	0.04
D0450	Soil	16.8	19.3	0.39	94.6	0.081	<1	1.28	0.014	0.11	0.4	2.8	0.21	0.03	38	0.3	0.03	5.4	2.69	<0.1	0.02
D0500	Soil	18.8	20.0	0.40	76.9	0.087	<1	1.25	0.009	0.10	0.6	2.8	0.18	<0.02	10	<0.1	<0.02	4.9	3.36	<0.1	0.03
D0550	Soil	14.7	33.4	0.66	133.8	0.107	1	2.11	0.011	0.15	0.4	3.8	0.26	0.03	29	0.2	0.03	7.2	3.08	<0.1	0.02
D0600	Soil	18.2	26.2	0.50	83.5	0.119	1	1.44	0.015	0.14	0.5	4.0	0.22	<0.02	28	0.2	0.05	5.7	2.80	<0.1	0.07
D0650	Soil	16.6	25.3	0.50	104.1	0.105	<1	1.65	0.011	0.15	0.2	3.8	0.20	<0.02	18	0.2	0.03	5.6	2.92	<0.1	0.05
D0700	Soil	17.3	27.3	0.52	84.3	0.120	<1	1.56	0.009	0.13	0.3	3.8	0.22	<0.02	22	0.2	0.03	6.8	2.66	<0.1	0.02
D0750	Soil	17.1	30.4	0.54	111.2	0.143	1	1.71	0.008	0.16	0.2	4.0	0.24	<0.02	16	0.1	0.04	8.2	3.39	<0.1	0.03
D0800	Soil	21.4	22.5	0.45	74.1	0.108	<1	1.45	0.010	0.13	0.2	3.6	0.24	<0.02	11	0.1	<0.02	5.5	3.13	<0.1	0.04
D0850	Soil	19.5	17.9	0.42	117.5	0.133	<1	1.38	0.014	0.19	0.2	3.6	0.25	<0.02	15	<0.1	<0.02	5.7	4.11	<0.1	0.07
D0900	Soil	27.0	10.4	0.35	92.1	0.058	<1	1.64	0.009	0.12	<0.1	2.5	0.14	<0.02	<5	<0.1	<0.02	7.8	8.72	<0.1	0.05
D0950	Soil	21.3	14.7	0.34	82.7	0.065	<1	2.34	0.007	0.17	<0.1	2.7	0.17	<0.02	14	<0.1	<0.02	8.7	11.05	<0.1	0.03
D1000	Soil	20.9	21.5	0.45	93.4	0.139	<1	1.40	0.012	0.19	0.2	3.8	0.25	<0.02	5	<0.1	0.03	6.9	4.41	<0.1	0.03



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Project: Kluane Soils 2012
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CERTIFICATE OF ANALYSIS

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Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
D0100	Soil	2.44	30.2	2.7	<0.05	0.9	5.98	49.1	0.04	<1	0.6	35.2	<10	<2
D0150	Soil	1.91	28.2	2.5	<0.05	0.9	6.35	40.7	0.07	<1	0.7	27.9	<10	<2
D0200	Soil	2.11	26.1	2.8	<0.05	1.4	7.18	44.3	0.10	<1	0.8	29.9	<10	<2
D0250	Soil	1.93	30.6	2.9	<0.05	1.3	6.80	36.7	0.07	<1	0.7	32.3	<10	<2
D0300	Soil	1.64	21.4	2.4	<0.05	2.2	6.34	35.9	0.05	<1	0.7	25.2	<10	<2
D0350	Soil	2.98	30.0	3.4	<0.05	0.8	5.90	33.8	0.05	<1	0.5	23.9	<10	<2
D0400	Soil	2.04	29.7	3.5	<0.05	1.8	7.18	44.7	0.07	<1	0.7	31.8	<10	<2
D0450	Soil	1.81	20.0	2.2	<0.05	1.2	8.41	35.4	0.06	<1	0.6	21.8	<10	<2
D0500	Soil	1.14	16.4	2.1	<0.05	1.3	6.23	41.0	0.05	<1	0.6	21.0	<10	<2
D0550	Soil	1.59	24.6	2.3	<0.05	1.1	6.48	39.7	0.06	<1	0.8	28.5	<10	<2
D0600	Soil	2.27	20.9	2.3	<0.05	2.6	9.45	39.4	0.09	<1	0.5	24.5	<10	<2
D0650	Soil	1.60	19.8	1.9	<0.05	2.3	8.17	37.9	0.05	<1	0.7	23.4	<10	<2
D0700	Soil	1.66	21.5	2.3	<0.05	1.2	6.43	40.4	0.06	<1	0.6	26.3	<10	<2
D0750	Soil	2.11	26.6	2.6	<0.05	1.4	4.96	44.3	0.05	<1	0.7	38.9	<10	<2
D0800	Soil	2.51	24.8	3.0	<0.05	1.6	8.96	44.4	0.08	<1	0.7	29.0	<10	<2
D0850	Soil	1.93	26.9	3.3	<0.05	2.8	9.89	43.3	0.06	<1	0.6	30.3	<10	<2
D0900	Soil	0.44	11.5	3.2	<0.05	1.7	12.17	58.0	0.04	<1	1.4	40.8	<10	<2
D0950	Soil	1.39	19.1	1.8	<0.05	1.1	10.55	48.8	0.04	<1	1.3	34.7	<10	<2
D1000	Soil	2.69	27.5	2.6	<0.05	0.8	6.56	46.0	0.04	<1	0.7	35.1	<10	<2



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Project: Kluane Soils 2012
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QUALITY CONTROL REPORT

WHI12000303.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
CG0550	Soil	0.72	50.31	5.14	71.0	67	49.8	18.1	398	3.53	36.5	0.6	7.9	2.5	29.0	0.09	0.24	0.12	105	0.52	0.050
REP CG0550	QC	0.71	57.69	4.89	74.9	72	51.2	17.3	398	3.56	39.3	0.7	8.0	3.1	32.7	0.09	0.27	0.11	104	0.53	0.046
CH0500	Soil	1.44	58.58	6.85	83.1	269	40.9	20.9	550	3.05	87.1	0.5	59.0	0.5	54.0	0.33	0.38	0.16	84	0.41	0.073
REP CH0500	QC	1.37	54.69	6.48	76.3	257	40.7	19.8	557	2.99	83.6	0.5	28.3	0.5	53.6	0.30	0.37	0.14	82	0.41	0.073
CI0100	Soil	1.09	99.79	5.33	118.6	234	81.4	32.8	705	5.05	198.9	0.7	43.3	1.3	53.0	0.42	0.48	0.33	141	0.62	0.084
REP CI0100	QC	1.17	101.8	5.64	125.1	355	81.6	33.3	748	5.30	211.3	0.7	779.4	1.4	53.4	0.40	0.50	0.35	146	0.64	0.089
CI2000	Soil	0.65	71.62	3.57	78.4	120	72.7	19.5	416	3.66	52.6	0.7	10.4	1.6	37.8	0.06	0.17	0.18	107	0.52	0.088
REP CI2000	QC	0.68	74.67	3.98	78.5	130	74.3	20.6	447	3.81	52.8	0.8	21.8	1.7	38.8	0.07	0.17	0.15	113	0.54	0.093
CJ1100	Soil	0.36	14.81	4.44	83.8	120	12.4	8.5	585	2.51	8.8	10.1	81.4	1.6	42.9	0.12	0.15	0.71	34	0.54	0.088
REP CJ1100	QC	0.36	14.27	4.30	82.7	124	11.5	8.1	575	2.48	8.7	10.1	113.5	1.6	43.0	0.12	0.16	0.68	35	0.53	0.088
D0600	Soil	0.93	52.95	19.28	130.3	511	17.1	8.1	426	2.32	55.6	2.2	4.5	6.4	23.7	1.03	0.35	0.37	39	0.33	0.087
REP D0600	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
D0800	Soil	0.89	29.63	107.1	209.2	90	16.7	8.6	458	2.42	47.6	1.6	1.6	7.5	16.6	1.27	0.29	0.31	39	0.21	0.051
REP D0800	QC	0.91	29.31	104.4	222.9	91	16.3	8.2	458	2.39	48.8	1.6	3.0	7.5	16.1	1.22	0.30	0.30	39	0.22	0.054
D1000	Soil	0.90	16.60	24.85	121.1	70	14.3	7.3	435	2.53	40.2	1.6	4.1	7.2	13.9	0.75	0.29	0.19	37	0.19	0.036
REP D1000	QC	0.98	17.05	27.39	130.9	87	14.7	7.4	445	2.56	43.4	1.8	4.0	7.7	18.6	0.80	0.33	0.21	36	0.20	0.039
Reference Materials																					
STD DS9	Standard	14.18	113.2	119.8	324.4	1852	44.4	8.3	599	2.42	25.5	2.8	120.5	6.7	65.5	2.24	5.21	5.93	41	0.76	0.083
STD DS9	Standard	13.00	109.6	126.2	312.2	1831	42.8	7.9	587	2.26	25.2	2.6	115.2	6.5	68.1	2.32	5.43	6.48	39	0.71	0.084
STD DS9	Standard	13.32	108.1	117.6	285.7	1831	39.7	7.8	563	2.18	24.4	2.6	117.8	6.5	66.8	2.42	5.40	6.49	38	0.71	0.076
STD DS9	Standard	13.00	108.1	124.4	313.1	1852	42.2	8.1	595	2.40	24.1	2.5	118.5	6.2	67.3	2.16	4.76	6.12	39	0.73	0.080
STD DS9	Standard	12.46	96.37	125.8	299.7	1921	37.9	7.2	576	2.28	26.2	2.5	117.0	6.0	66.2	2.15	4.98	6.21	38	0.70	0.087
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.01	0.01	0.02	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.11	0.02	<0.1	3	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.02	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

WHI12000303.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
CG0550	Soil	12.5	76.7	1.18	193.0	0.176	1	2.55	0.024	0.49	0.3	10.2	0.29	<0.02	16	0.5	0.03	7.6	2.76	<0.1	0.06
REP CG0550	QC	14.0	82.1	1.19	197.9	0.198	<1	2.57	0.026	0.49	0.2	10.6	0.29	<0.02	11	0.5	0.02	8.3	2.78	0.2	0.06
CH0500	Soil	5.5	59.5	0.76	223.2	0.134	1	1.95	0.015	0.41	0.4	6.2	0.19	0.09	59	0.5	0.06	7.4	2.82	<0.1	<0.02
REP CH0500	QC	5.5	62.2	0.73	214.7	0.133	1	1.83	0.015	0.39	0.4	5.6	0.19	0.08	59	0.4	0.05	7.1	2.62	0.1	<0.02
CI0100	Soil	8.0	91.8	1.55	376.5	0.222	1	3.16	0.030	0.83	0.4	9.9	0.38	0.08	23	0.4	0.04	11.9	4.34	0.2	<0.02
REP CI0100	QC	8.2	96.6	1.60	386.8	0.227	<1	3.30	0.031	0.87	0.6	10.2	0.38	0.09	23	0.5	0.07	12.4	4.45	0.2	<0.02
CI2000	Soil	5.8	77.7	1.31	276.1	0.206	<1	2.88	0.043	0.58	0.2	9.9	0.25	<0.02	19	0.4	0.02	9.4	2.96	<0.1	<0.02
REP CI2000	QC	6.2	81.3	1.38	282.9	0.218	<1	3.03	0.045	0.61	0.3	10.1	0.29	0.02	21	0.4	0.03	9.9	3.06	0.1	<0.02
CJ1100	Soil	5.7	19.7	0.67	182.3	0.180	1	1.60	0.015	0.51	0.9	4.9	0.57	0.03	24	0.2	0.06	7.7	7.52	0.1	<0.02
REP CJ1100	QC	5.9	19.7	0.67	179.6	0.182	1	1.63	0.015	0.51	0.8	5.0	0.57	0.03	21	0.1	0.05	7.4	7.46	0.1	<0.02
D0600	Soil	18.2	26.2	0.50	83.5	0.119	1	1.44	0.015	0.14	0.5	4.0	0.22	<0.02	28	0.2	0.05	5.7	2.80	<0.1	0.07
REP D0600	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
D0800	Soil	21.4	22.5	0.45	74.1	0.108	<1	1.45	0.010	0.13	0.2	3.6	0.24	<0.02	11	0.1	<0.02	5.5	3.13	<0.1	0.04
REP D0800	QC	20.6	22.9	0.46	73.4	0.112	<1	1.45	0.010	0.13	0.2	3.9	0.24	<0.02	11	0.2	0.02	5.8	3.14	<0.1	0.05
D1000	Soil	20.9	21.5	0.45	93.4	0.139	<1	1.40	0.012	0.19	0.2	3.8	0.25	<0.02	5	<0.1	0.03	6.9	4.41	<0.1	0.03
REP D1000	QC	22.6	23.2	0.49	95.6	0.151	1	1.43	0.012	0.19	0.3	3.9	0.27	<0.02	8	0.1	0.03	7.4	4.89	<0.1	0.03
Reference Materials																					
STD DS9	Standard	14.9	114.4	0.65	298.0	0.118	3	1.00	0.091	0.41	3.2	2.7	5.90	0.17	200	5.6	5.54	5.1	2.53	0.2	0.11
STD DS9	Standard	13.3	118.6	0.61	297.2	0.114	3	0.88	0.082	0.39	3.1	2.5	5.63	0.16	212	5.3	5.30	4.6	2.41	<0.1	0.08
STD DS9	Standard	14.5	109.9	0.59	287.6	0.109	3	0.93	0.083	0.38	3.0	2.7	5.31	0.16	191	5.0	5.10	4.3	2.41	<0.1	0.09
STD DS9	Standard	12.8	119.1	0.62	284.6	0.119	2	0.98	0.086	0.40	2.9	2.4	5.52	0.16	207	5.4	5.25	4.8	2.36	<0.1	0.09
STD DS9	Standard	13.5	114.7	0.59	309.6	0.108	3	0.94	0.083	0.38	3.0	2.6	5.52	0.15	197	5.1	5.01	4.6	2.41	<0.1	0.09
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	0.1	0.08
BLK	Blank	<0.5	2.4	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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 Report Date: July 19, 2012

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QUALITY CONTROL REPORT

WHI12000303.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
CG0550	Soil	1.43	35.8	1.9	<0.05	2.4	10.26	20.9	0.03	<1	0.4	35.8	<10	<2
REP CG0550	QC	1.79	38.5	1.5	<0.05	2.4	10.84	23.6	0.03	<1	0.4	37.7	<10	<2
CH0500	Soil	2.02	34.9	0.8	<0.05	0.6	2.90	11.0	0.02	<1	0.9	27.4	<10	<2
REP CH0500	QC	1.74	33.9	0.7	<0.05	0.6	2.91	10.4	0.03	<1	0.8	27.4	<10	<2
CI0100	Soil	2.14	57.2	0.8	<0.05	1.7	5.53	16.6	0.04	<1	0.6	54.0	<10	<2
REP CI0100	QC	2.18	58.6	1.0	<0.05	<0.1	5.56	16.5	0.04	<1	0.6	56.2	<10	2
CI2000	Soil	1.60	38.0	0.7	<0.05	0.3	4.81	12.0	0.03	<1	0.6	48.5	<10	<2
REP CI2000	QC	1.66	39.0	0.8	<0.05	0.3	5.05	12.6	0.05	<1	0.7	50.3	<10	<2
CJ1100	Soil	2.17	69.2	2.5	<0.05	0.5	10.69	12.9	0.04	<1	0.3	70.5	<10	<2
REP CJ1100	QC	2.20	69.4	2.5	<0.05	0.5	10.28	13.2	0.04	<1	0.3	69.2	<10	<2
D0600	Soil	2.27	20.9	2.3	<0.05	2.6	9.45	39.4	0.09	<1	0.5	24.5	<10	<2
REP D0600	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
D0800	Soil	2.51	24.8	3.0	<0.05	1.6	8.96	44.4	0.08	<1	0.7	29.0	<10	<2
REP D0800	QC	2.45	24.5	2.9	<0.05	1.6	8.80	42.9	0.09	<1	0.7	27.7	<10	<2
D1000	Soil	2.69	27.5	2.6	<0.05	0.8	6.56	46.0	0.04	<1	0.7	35.1	<10	<2
REP D1000	QC	2.88	28.2	2.8	<0.05	1.1	7.10	51.2	0.04	<1	0.7	38.3	<10	<2
Reference Materials														
STD DS9	Standard	1.66	35.1	5.7	<0.05	2.0	6.24	26.4	2.37	68	5.6	26.5	114	348
STD DS9	Standard	1.31	35.1	6.2	<0.05	1.9	5.84	25.9	2.26	59	5.5	26.0	123	351
STD DS9	Standard	1.37	32.1	6.9	<0.05	2.1	5.70	24.7	2.34	62	4.9	25.1	96	352
STD DS9	Standard	1.18	32.7	6.2	<0.05	1.8	5.63	23.9	2.16	62	5.5	25.5	141	348
STD DS9	Standard	1.47	30.9	5.9	<0.05	2.0	6.23	26.9	2.09	60	5.5	26.6	127	360
STD DS9 Expected		1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2