



BC Geological Survey
Assessment Report
34498

SERENGETI
RESOURCES INC.

ASSESSMENT REPORT

Geochemical Soil Sampling

And Prospecting

on the

KWANIKA EAST-SMOKE PROPERTY

Event Numbers

5480716, 5480717

OMINECA MINING DIVISION,

British Columbia

NTS: 93N/054-5

Latitude 55°34' N, Longitude 125°15' W

Prepared for:

SERENGETI RESOURCES INC

1700-750 West Pender Street

Vancouver, BC, Canada V6C 2T8

By:

H. Clarke, B.A.

12 February, 2014

Vancouver, B.C.

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(1) Introduction

Serengeti Resources Inc. (Serengeti) acquired the Kwanika East claims by staking in June 2012. The Smoke claims were acquired by staking in April 2013. For the purposes of this report and in future these properties will be referred to as the Kwanika East-Smoke property ('the property'), Figure 1 and 2.

The property lies in the prospective Quesnel Trough, 90 km northwest of the Thompson Creek Mt. Milligan deposit and 7 km northeast of the Kwanika deposit. In order to investigate for Cu+/-Au porphyry targets on the property, Serengeti financed a \$29,478 geochemical reconnaissance program (Appendix A). From June 13th to 21st, 2013, a Serengeti Senior Geologist and field crew working for Serengeti visited the Kwanika East-Smoke property and collected 55 Ah horizon soil samples, 133 B-Horizon samples, 8 rock samples and 20 silt samples.

(2) Property Description and Location

The Kwanika East-Smoke property is 100% owned by Serengeti Resources Inc. It is located in the Omineca Mining Division of north-central British Columbia, Canada, 140 km NW of Fort St James, at 55° 34' north latitude and 125° 15' west longitude (Figure 1). The 9 contiguous mineral claims which comprise the property cover an area of 5,303 hectares (Figure 2). Additional information regarding the individual claims can be referenced in Table 1.

As these claims were acquired at separate times, they were considered to be two separate properties and the work was completed as such, Kwanika East to the East and Smoke to the West (see Figure 2). For future reference these two properties will now be considered the one Kwanika East-Smoke property.

Table 1: Kwanika East-Smoke Project Tenure Details

<i>Project</i>	<i>Tenure #</i>	<i>Claim Name</i>	<i>Hectares</i>	<i>Expiry Date</i>	<i>NTS</i>	<i>Record Date</i>	<i>Mining Division</i>
SMOKE	1018213	SMOKE	1810.8	23-Aug-2015	093N	02-Apr-2013	Omineca
SMOKE	1018949	SMOKE 2	658.3	23-Aug-2015	093N	29-Apr-2013	Omineca
KWANIKA EAST	997183	KWANIKA EAST 1	457.1	23-Aug-2015	093N	14-Jun-2012	Omineca
KWANIKA EAST	997222	KWANIKA EAST 2	438.8	23-Aug-2015	093N	14-Jun-2012	Omineca
KWANIKA EAST	997242	KWANIKA EAST 3	457.3	23-Aug-2015	093N	14-Jun-2012	Omineca
KWANIKA EAST	997247	KWANIKA EAST 4	384.1	23-Aug-2015	093N	14-Jun-2012	Omineca
KWANIKA EAST	997262	KWANIKA EAST 5	457.1	23-Aug-2015	093N	14-Jun-2012	Omineca
KWANIKA EAST	997322	KWANIKA EAST 6	274.2	23-Aug-2015	093N	14-Jun-2012	Omineca
KWANIKA EAST	997342	KWANIKA EAST 7	365.8	23-Aug-2015	093N	14-Jun-2012	Omineca

9 claims

5303.6



Northwest Territories

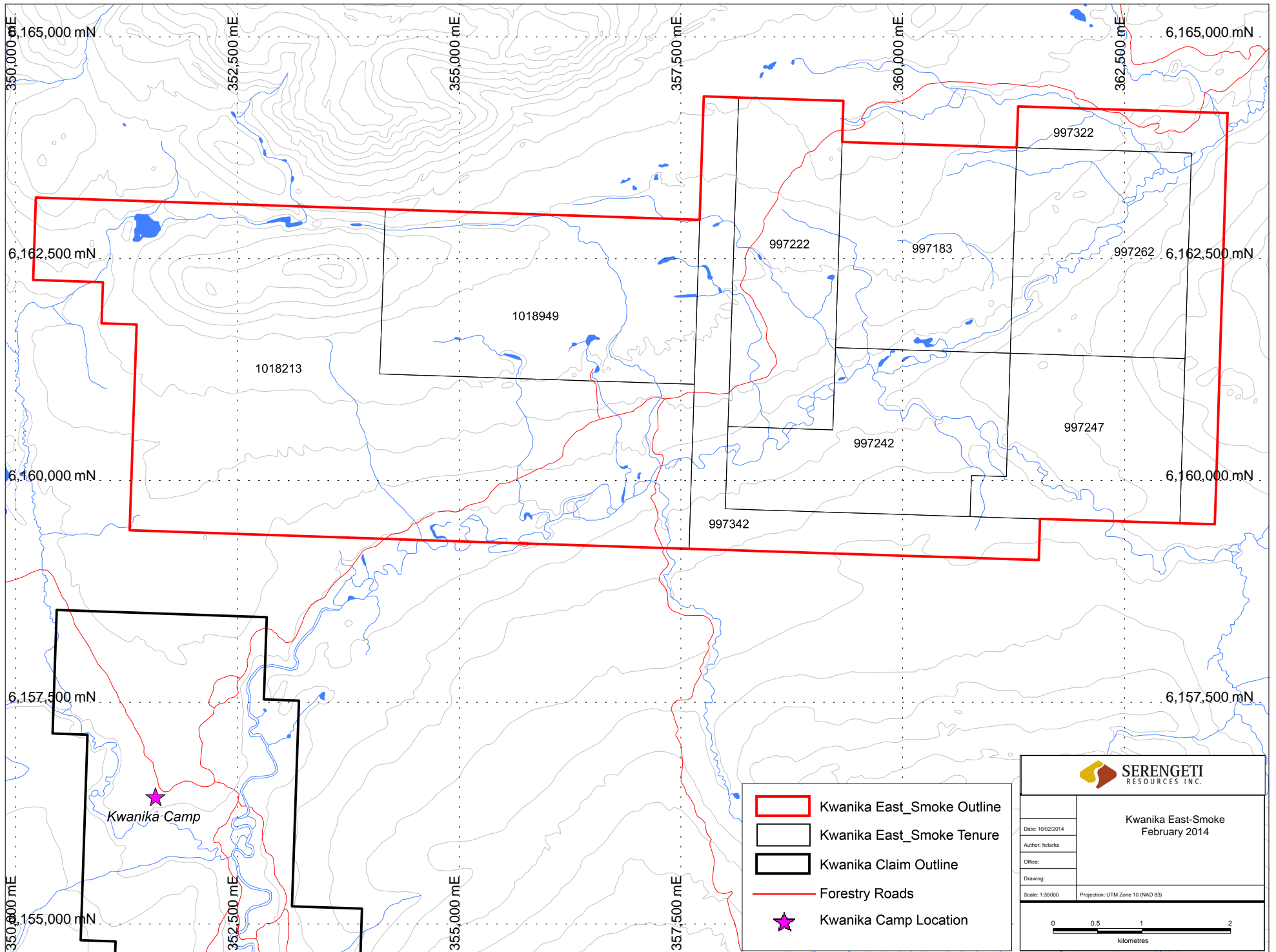
British Columbia






Alberta


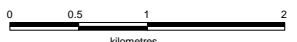
U.S.A.

Kwanika East-Smoke Property





-  Kwanika East_Smoke Outline
-  Kwanika East_Smoke Tenure
-  Kwanika Claim Outline
-  Forestry Roads
-  Kwanika Camp Location

	
Kwanika East-Smoke February 2014	
Date: 10/02/2014	
Author: hcharke	
Office:	
Drawing:	
Scale: 1:55000	Projection: UTM Zone 10 (NAD 83)
 0 0.5 1 2 kilometres	

(3) Accessibility, Local Resources, Infrastructure, Climate and Physiography

The Kwanika East-Smoke Property is located 140 km northeast of Fort St. James in north central British Columbia. It is accessible by the well-maintained, all-weather Leo Creek Forest Service Road (FSR) and Driftwood FSR. The Driftwood FSR services the nearby town of Takla Landing and is maintained year-round by the British Columbia Forestry Service to within 29 km of the site. The final 35 km of access is via the Germansen Lake logging road which is suitable for passage of four-wheel-drive vehicles in all seasons (pending snow removal). Kwanika Camp is also located on this road, 30 minutes from the property. The road is snow-free from May to October. Access to the Kwanika East-Smoke property can also be obtained via helicopter from Fort St James (140 km to the southeast). Accommodation was provided by the Tsayta Lake Lodge.

The property is located approximately 90 km northwest of Thompson Creek's Mt. Milligan deposit, reported to contain mineable reserves of 6.0 million ounces of gold and 2.1 billion pounds copper that went into production in the third quarter of 2013. The Kwanika East-Smoke property is also located 1 km to the north and extends 12 km east of Serengeti's Kwanika deposit containing Indicated Resources of 1.23 billion pounds of copper and 1.66 million ounces of gold plus Inferred Resources of 1.25 billion pounds of copper and 0.91 million ounces of gold

The climate of region is typical of middle latitudes in Canada as the winters are cold (-5 to -25 degrees Celsius) and summers are warm (20-25 degrees Celsius). Precipitation is moderate as nearby Fort St James receives an average of 47.5 cm of precipitation per year. The property is mostly covered by glacial till, with gentle slopes, and elevations varying from about 1,050 m to 1,250 m. It is mainly forested except for meadows in the valleys and upland creeks. The vegetation on the property is best characterized by the presence of spruce, pine and fir forests with swampy grasslands occurring in low-lying areas. The Kwanika Creek runs through the property from the northeast to the southwest corner.

(4) History

Little work has been done on the property historically. Assessment reports referring to work done in this area are listed in the References section. The ground was acquired to cover two primary targets; i) a conceptual structural intersection identified by Myron Osatenko. This intersection consists of a prominent NE trending topo lineament that travels through the Central Zone at Kwanika, 10 km to the SW, and continues several km to the NE, interpreted to be a fault extending eastward from the Pinchi fault (grey NW trending feature on Figure 4). This lineament intersects with an inferred major NW trending structure that bounds the Hogem Batholith to the east, and ii) a northwest trending Cu in B horizon soil anomaly that was identified by a 1991 survey on the Kwanika East portion of the property (Figure 4). Also of interest are the several mineral occurrences (minfile) that occur proximal or within the properties, namely Lin 18, Smoke Copper, Groundhog and Twin Creek.

Kwanika East work history:

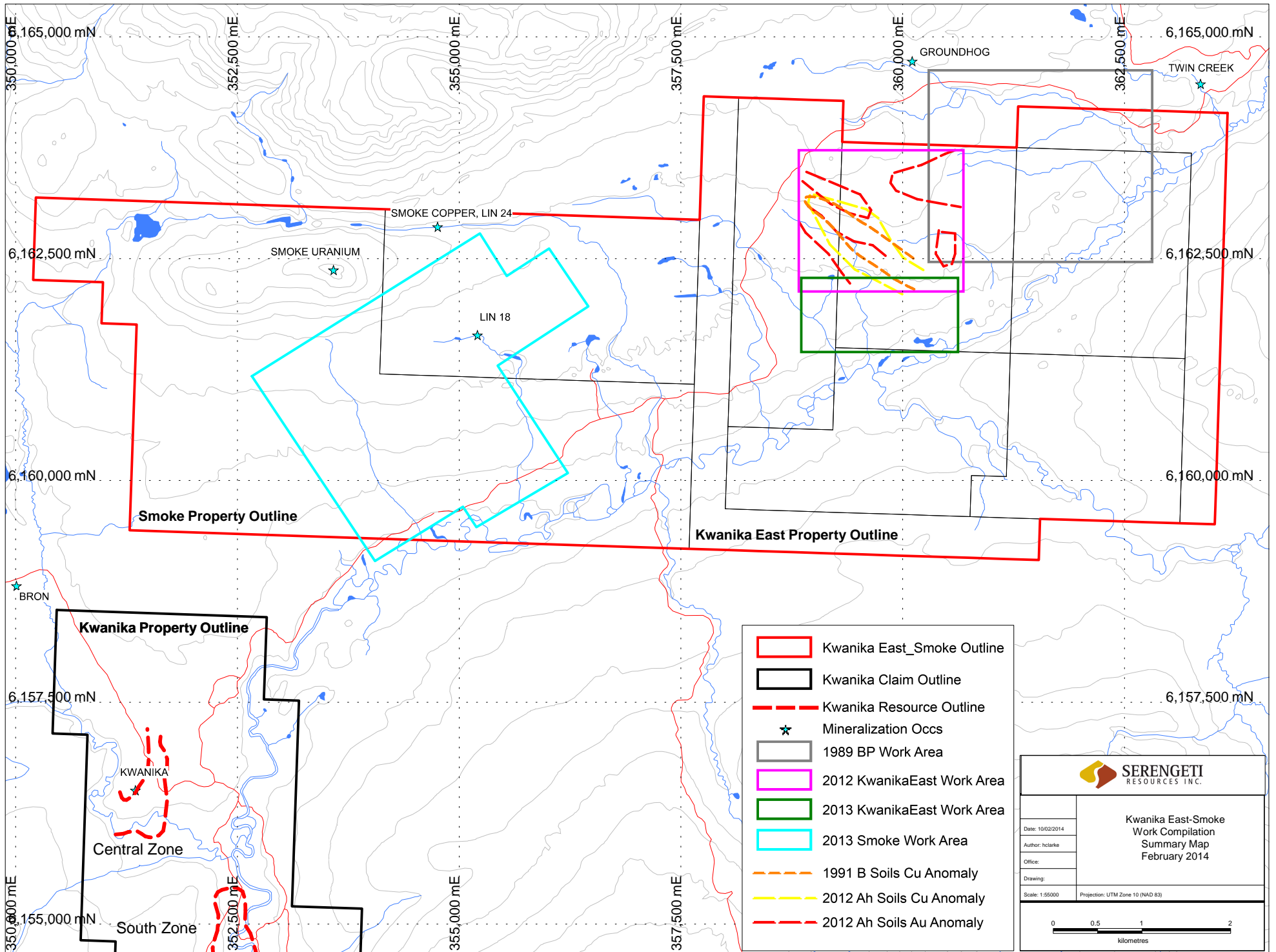
In 1989, a 2.5 x 2 km portion of the property was held by BP Resources Canada (Twin 1 Claims), staked to cover a governmental geochemical survey lead-silver-tungsten stream sediment anomaly. Work included geological mapping, prospecting and soil sampling in 1984. A weak arsenic soil anomaly approximately 700 m long was detected but no significant alteration or mineralization was detected on the property. Volcanic rocks were found to be predominantly fresh with only localized epidote mineralization occurring locally in fragmental rocks. One piece of angular float of leucocratic, aphanitic intrusive (?) returned 248 ppm Cu with fracture filling chalcocite and hematite (unknown source).


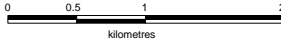
In 1991, Golden Rule Resources completed a geochemical survey consisting of 66 moss mat and 951 soil samples in the area with several areas identified with multielement geochemical anomalies.

In 2012 Serengeti Resources completed a 119 sample Ah soil survey over the property and several multi-line Cu +/- Mo Ah soil geochemical anomalies were detected (see AR 543331). This work prompted the acquisition of adjacent Smoke property and follow-up work was planned.

Smoke Property work history:

- 1972 – The Lin 18 minfile was staked by Luc Syndicate, completed a geochemical survey with best results 48 ppm Cu, and 21 ppm Mo.
- 1974 – Anglo-Bomarc Mines Ltd. – Staked Smoke Copper and Smoke Uranium. Completed Magnetometer survey, and a 170 soil samples, 18 water samples survey completed (Cu up to 128 ppm).
- 2011 – Kiska – soil survey – 50 samples – poor results due to extensive cover.



 SERENGETI RESOURCES INC.	
Kwanika East-Smoke Work Compilation Summary Map February 2014	
Date: 10/02/2014	
Author: hcharke	
Office:	
Drawing:	
Scale: 1:55000	Projection: UTM Zone 10 (NAD 83)
	

(5) Geology

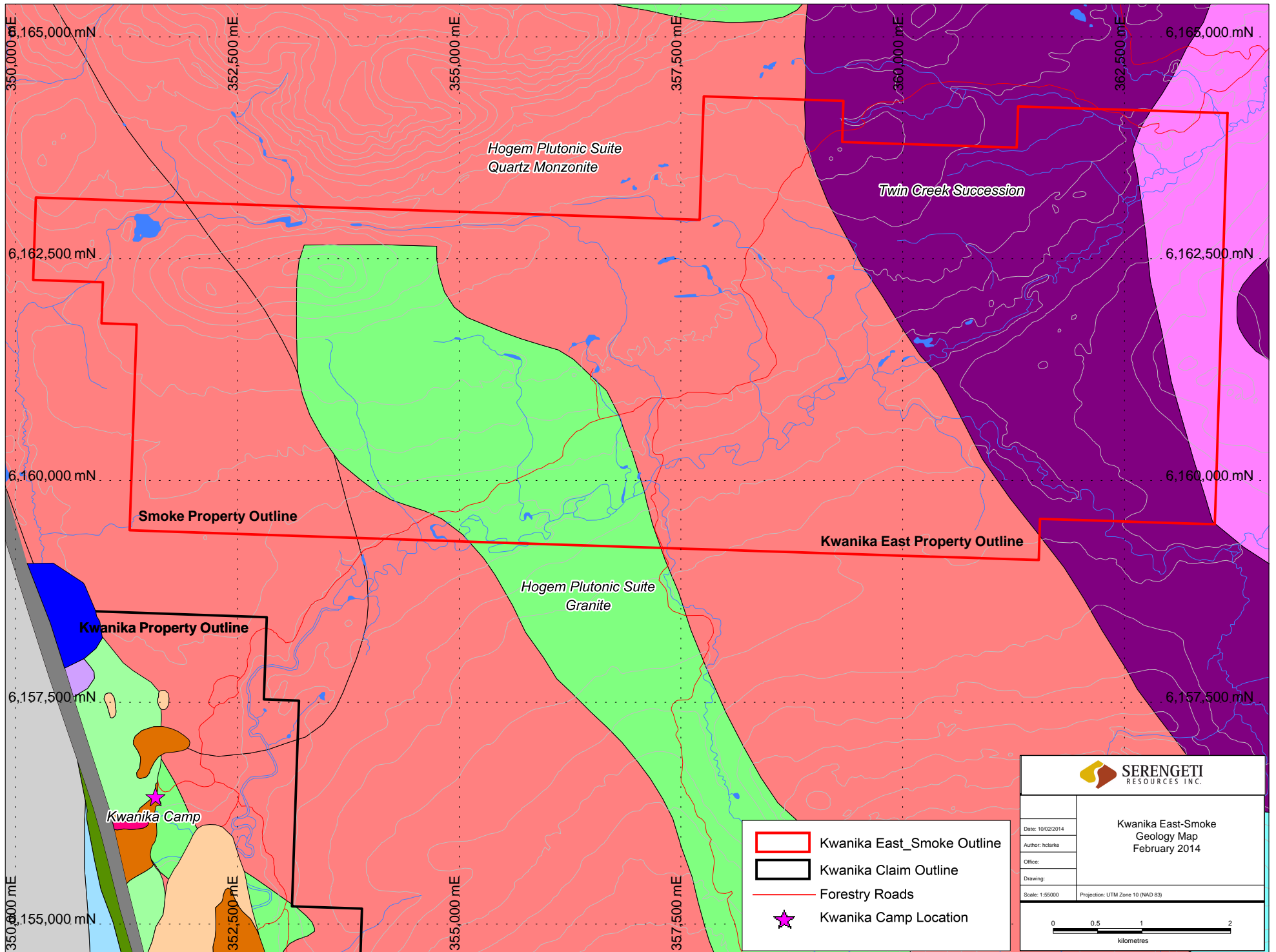
Regional Geology

The Kwanika East property lies in the northern part of the Upper Triassic to Lower Jurassic Quesnel Trough – Quesnellia Terrane –, a Mesozoic island arc terrane juxtaposed against the ancestral North American continental margin. The Quesnel Trough is bounded on the west by older rocks of the Cache Creek Terrane across the Pinchi Fault, and to the east across the Manson Fault by the Slide Mountain Terrane. It hosts numerous alkalic porphyry copper-gold deposits, from southern to northern B.C. The deposits in this region of the Quesnel Trough area are associated with potassically altered diorite to syenite plugs and stocks and coeval andesitic, volcanic rocks, mainly along the flanks of the Hogem batholith. The significant porphyry deposits in the general Kwanika East area (Kemess mine and the Mt. Milligan, Kwanika and Lorraine deposits) are associated with strong, airborne magnetic anomalies, especially northwest cross trends. The major structure in the region is the Pinchi Fault which lies 15 km west of the property and forms the western boundary of the Quesnel Trough.

Property Geology

In the Kwanika East project area, the geology consists of Early Jurassic Hogem composite Plutonic Suite of quartz monzonitic to monzogranitic intrusives (Figure 4). Volcanic rocks of the Early Jurassic Twin Creek Succession are also present on the property. These consist of Heterolithic lapilli tuff, plagioclase-augite and plagioclase, quartz porphyritic flows and agglomerate/tuff breccia. Maroon basalts from the Twin Creek Succession are observed outcropping on the property.

Minor amounts of placer gold have been recovered over the years from Twin Creek, immediately to the northeast of the property. Kwanika is the most significant mineral occurrence known in the vicinity of the property, discovered in 2005 by Serengeti Resources.



(6) Results and Discussion

Sample Collection Methodology and Analysis

A crew of 2 staff members of Serengeti mobilized to Tsayta Lodge on June 13th, 2013. The work on the property was completed from June 14th to 21st. The crew consisted of a Senior Geologist, a Junior Geologist and 2 soil samplers. In order to test for the geochemical signature of a covered mineral deposit, a total of 55 Ah soil samples, 133 B horizon soil samples (Aqua Regia), 20 silt samples and 8 rock samples were collected from the Kwanika East-Smoke property. The total cost of the program was approximately \$29,500.

Silt and rock sampling was carried out during prospecting and mapping of the property over accessible areas. Soil sampling was completed on a grid basis- 100 m spaced samples with distances between grid lines approximately 300m and 500 m. Sample type, Ah or B horizon sample, was determined depending on the particular biogeoclimatic conditions at the sample site, i.e. Ah sample if well-developed Ah horizon or B horizon soil sample if no developed Ah horizon. It must be noted that owing to forest fires in the area, Ah horizons were not well developed and in many cases sample sizes were insufficient for a 15g pulp lab sample. These were analyzed using a 0.5g pulp sample.

Samples were analyzed by the typical analytical method of ICP-Mass Spec for both types of sample- prepared using Aqua Regia digestion at ACME Labs Vancouver. See Appendix E for full sample preparation procedures, Acme Laboratory analytical codes, and a complete list of results for each sample. Appendix C contains a table with complete lists of all samples collected and analyzed in 2013 including; sample IDs and sample locations by UTM (Nad 83 Zone 10). These tables will allow to easily plot locations and significant assay results for all samples collected by Serengeti on the property in 2013.

i) 'B' Horizon Soil Sample Collection

B soil samples were collected by geologists and field technicians in accordance with guidelines for sampling outlined by David Heberlein in his Geoscience BC Report 2010-08. The procedure was as follows: Prior to collecting the samples, sampling equipment was brushed to eliminate residue from previous samples and was flushed with soils from the new sample area. At each site a 20 by 20 centimetre hole was excavated down to the B and occasionally the C horizon to expose the complete soil profile. Sampling was completed by hand or with a small garden trowel from the upper B horizon. Approximately 600 grams of material was placed in a Kraft waterproofed paper sample bag to allow it to breathe and to prevent decomposition prior to arrival at the laboratory. Each station was located with the use of a handheld GPS.

Sample Shipment and Analysis

B soil samples were packaged by the field staff on site and shipped via a local expediting company to Acme Labs prep facility in Smithers, British Columbia. Samples were dried at 60 °C, sieved

to a -80 mesh and digested in an **aqua regia solution**. Acme Labs modified aqua regia digestion (Acme Code 1F02) utilizes a 1:1:1 HCl:HNO₃:H₂O combination to achieve ultra-low detection limits for ICP-MS analysis for a Basic Suite of 37 elements.

ii) Ah Soil Sample Collection

Ah soil samples were collected by geologists and field technicians in accordance with guidelines for sampling outlined by David Heberlein in his Geoscience BC Report 2010-03. The procedure was as follows: Prior to collecting the samples, sampling equipment was brushed to eliminate residue from previous samples and was flushed with soils from the new sample area. Ah samples were collected from several spots around the sample site so as to ensure they were not contaminated with material from other soil horizons. Sampling was completed by hand or with a small garden trowel by peeling back the top layer of moss and leaf litter as to expose the black decomposing material at the mineral soil interface. Approximately 400 grams of material was placed in a Kraft waterproofed paper sample bag to allow it to breathe and to prevent decomposition prior to arrival at the laboratory.

Sample Shipment and Analysis

The Ah soil samples were packaged by the field staff on site and shipped via a local expediting company to Acme Labs prep facility in Smithers, British Columbia. Samples were air dried at 35 °C to 40 °C and digested in an aqua regia solution. Acme Labs modified aqua regia digestion (Acme Code 1F05-15g sample, 1F04- 0.5g sample) utilizes a 1:1:1 HCl:HNO₃:H₂O combination to achieve ultra-low detection limits for ICP-MS analysis.

Refer to Appendix D1-4 for 1:35,000 and 1:50,000 scale plots showing important details and results for all Ah soil and rock samples collected in 2013. The plots include maps showing: sample ID's, absolute value Cu, Au, and Mo, assay results for all samples.

Ah Soil Sampling Results

The primary focus of the 2013 sampling program was to test for mineralization over the target area, extend the 2012 sampling grid to the geochemically open area on the property to the south, extending the area of coincident Cu-Au mineralization detected in the 2012 B-horizon soil survey. Previous sampling using both Ah and B-Horizon as sample media the area has been successful in identifying areas of anomalous geochemistry and is thus thought to be a useful exploration tool in this environment.

Thematic maps of the Ah soil assay results for the 2013 program for Copper and Gold are shown in Appendix D. Ah and B soils are presented separately and labelled by absolute values and plots showing Ah and B together are also presented but the data is kept separate (i.e. the different media are not merged) and the geochemical ranges are calculated for each media separately.

The thematic maps of the soil sampling results were created in MapInfo using ioGAS software to generate the geochemical thresholds and are colored based on percentile rank of the results within the total sample population. For example, the **magenta** points show the >98th percentile results within the sample population, the **red** points show the 98th percentile results within the sample population, and the **yellow** points show the 93rd percentile results within the sample population. In Serengeti's experience in interpretation of Ah soil sample results over the past number of years, samples with responses that are 93rd percentile or greater are considered strongly anomalous (ie. red or magenta color). Note that those result responses that are 87th percentile or greater (ie. yellow) may be considered anomalous, depending on the density of survey. In this case, the author believes that 93rd percentile samples are considered anomalous if they are clustered with several samples in the 93rd to 98th percentile. These maps are also labeled by the absolute value for Cu ppm and Au ppb for each thematic map.

Copper- is anomalous in a general N-S trend across five lines over a 1100m x 700 m area of the surveyed area of Smoke (Appendix D-2). The anomalous area is defined by seven B-Soil samples assaying greater than 40 ppm Cu (within the >95th percentile) including a maximum result of 91.3 ppm Cu. Several samples within the 90th and 95th percentile (between 30.38 and 41.1 ppm Cu) are distributed over the surveyed area and do not continue to define an area of anomalous copper values. The surveyed area over Kwanika East did not return significant results in the B-horizon samples. In terms of Ah samples, four samples assayed values between 71.58 ppm Cu and 83.3 ppm Cu, falling within the >95th percentile range. These are not clustered anomalies however are considered significant values individually and are worthy of consideration.

When viewed with the 2012 Ah data, the 2013 sampling on Kwanika East did not return anomalies consistent with the 2012 survey, with the >95th percentile range from 2013 coinciding with the 90-95th % range of the 2012 data. In other words, the area of open anomalism in Cu that was one of the main focus of this survey did not extend further south as had been anticipated. This anomalism is not detected in B-soil samples either. It must be noted that this trend of Cu anomalism is coincident with the geological contact that occurs between the Early Jurassic Hogem quartz monzonite-monzogranite and the Twin Creek Succession of undivided Early Jurassic volcanic rocks.

Gold- twelve samples in both Ah and B-soil samples returned relatively anomalous gold values that range from 5.8 ppb to 286 ppb Au in the upper 95th percentile (Appendix D). These anomalous samples do not form a consistent cluster of samples although do form three loose groupings. It must be noted that three of the highest Au values in B-horizon soils occur along the northeastern edge of the smoke survey area, these range from 9.3 ppb Au to one sample that returned 285.7 ppb Au. It is not known what the cause of this anomalism is, as this area is geologically indistinct in terms of the current mapped area.

Arsenic plotted by percentile ranges from both the Ah samples and the B-horizon soils, define an area of anomalous geochemistry over 1100m x 700 m on the western part of the property that is coincident with Copper anomalism. Upper 95th percentile ranges in B-soil and Ah samples range from 4.1 ppm – 13.2 ppm As in Ah Soils and 10.7 ppm – 58.3 ppm As in B-soils.

Rock Sample Results

A total of seven prospecting rock samples were taken during the program. Four float samples, two outcrop samples and one subcrop sample - these can be referenced in Appendix D-3. Overall results were not significant however one sample returned strongly anomalous copper values- 559 ppm Cu and 8.1 ppb Au hosted in a granodiorite with sulphide stringers, weakly patchy magnetic (sample R1965156). This sample occurs in close proximity to the regional geology contact between the Hogem Plutonic suite Qtz Monzonite to Granodiorite and the Twin Creek succession volcanics. Remainder of samples did not return significant results.

Silt Sample Results

A total of 20 silt samples were taken across the property- a number of samples returned anomalous Au (39.9 and 80.6 ppb Au) and Cu (89.4 ppm Cu, 59.6 ppm Cu) values, these can be referenced in Appendix D-4. The cluster of two silt samples that are strongly anomalous in Au and Cu are located within a stream that drains from the area where the 559.3 ppm Cu was sampled and is worthy of follow-up (although this area is also characterized by a lithological contact zone where anomalous geochemistry could be expected for this reason).

(7) Summary and Recommendations

The work completed on the Kwanika East-smoke property was planned to follow-up on anomalism detected in the 2012 Kwanika East program and was the first year the Smoke property has seen work completed by Serengeti.

This project area continues to be part of a conceptual target that considers the structural implications of a NE-trending structure along strike from the Kwanika deposits. This intersection consists of a prominent NE trending topo lineament that travels through the Central Zone at Kwanika, 10 km to the SW, and continues several km to the NE, interpreted to be a fault extending eastward from the Pinchi fault. This lineament intersects with an inferred major NW trending structure that bounds the Hogem Batholith to the east.

This survey has proven to be successful in identifying a new area of Cu anomalism that has been detected in Ah and B horizon samples on the Smoke portion of the property and this is coincident with As. Au clusters occur elsewhere and it is not understood to what they are attributed. Geochemical anomalies on Kwanika East have been interpreted with respect to the geological context to determine their significance, and coincidence of anomalism with lithological contact zones is noted.

However, there is very little historical exploration data in the area and few mineralization observations have been made to date. This area is also covered by variable amounts of glacial cover and the potential for an area of interest to be concealed is still strongly considered.

Therefore the follow-up work that is recommended is to include:

- i. 15-line km Induced Polarization grid across the NE-trending structural target to test for the existence of a potential sulphide body that may be indicative of a mineralized system at depth.
- ii. Pending positive results of the IP, reconnaissance diamond drilling should be completed in the identified target areas.
- iii. 2014 field work should include the area SE of Kwanika Creek that has to date not been accessed and will be dependent on creek levels or helicopter access should be considered.
- iv. This survey has proven to be successful in identifying a greater and better defined area of copper anomalism in soil and thus warrants further exploration work to test this apparently favourable target area.

(8) References

Ministry of Energy, Mines and Petroleum Resources Assessment Reports, Several as listed in the body of this report; Assessment Report #'s 19859, 19868, 20897, 21246, 22414, 22752, 22757, 28184, 29766, 31736 and 543331 (Kwanika East Area)

Ministry of Energy, Mines and Petroleum Resources Assessment Reports, Several as listed in the body of this report; Assessment Report #'s 03997, 05372 and 05495 (Smoke Area)

Appendix A – Expenditure Statement

Smoke Property - Cost Statement - June 2013 Work

Dates worked: 19-21st June 2013
3 days total

Claims worked: 1018213, 1018949

Staff:

Senior Project Geologist -3 days at \$450/day \$ 1,350.00
Junior Geologist- 3 days at \$300/day \$ 900.00

Field Assistants 2 Employees, 6 man days @ \$250 pr day incl. EI, CPP \$ 1,500.00
1 J. Abraham 3 days
2 T. Williams 3 days

Accommodation

Lodge Accommodation x 12 nights incl. food @ \$115/night \$ 1,380.00
Groceries/Field Supplies/meals \$ 365.00

Staff Mob/de-mob

Flights Vancouver- Prince George \$ 224.00

Truck Rental:

3 days x 1 vehicle daily rate \$120/day \$ 360.00
Fuel (Diesel, Gas) \$ 175.00

Samples:

Ah Soil Samples: 53 Samples @ \$25/sample \$ 1,325.00
B Horizon Samples : 101 samples @ \$25/sample \$ 2,525.00
Stream Silt Samples: 10 sample @ \$25/sample \$ 250.00
Rock Samples: 5 samples @ \$30/sample \$ 150.00

Report and data preparation:

3 days @ \$450/day \$ 1,350.00

Sub Total \$ 11,854.00

Admin (10%) \$ 1,185.40

Total \$ **13,039.40**

Add PAC (30%) \$ **16,951.22**

Kwanika East Property - Cost Statement - June 2013 Work

Dates worked: 13-18th June 2013
6 days total

Claims worked: 997183, 997222, 997242, 997247, 997262, 997322, 997342

Staff:

Senior Project Geologist -6 days at \$450/day	H. Clarke	\$	2,700.00
Junior Geologist- 6 days at \$300/day	L. Arness	\$	1,800.00

Field Assistants	2 Employees, 12 man days @ \$250 pr day incl. EI, CPP	\$	3,000.00
1 J. Abraham	6 days		
2 T. Williams	6 days		

Accommodation

Lodge Accommodation x 20 nights incl. food @ \$115/night	\$	2,300.00
Groceries/Field Supplies/meals	\$	365.00

Staff Mob/de-mob

Flights Vancouver- Prince George	\$	170.00
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Truck Rental:

6 days x 1 vehicle	daily rate \$120/day	\$	720.00
Fuel (Diesel, Gas)		\$	175.00

Samples:

Ah Soil Samples: 31 Samples @ \$25/sample	\$	775.00
B Horizon Samples : 32 samples @ \$25/sample	\$	800.00
Stream Silt Samples: 10 sample @ \$25/sample	\$	250.00
Rock Samples: 3 samples @ \$30/sample	\$	90.00

Report and data preparation:

4 days @ \$450/day	\$	1,800.00
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<i>Sub Total</i>	\$	14,945.00
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<i>Admin (10%)</i>	\$	1,494.50
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Total	\$	16,439.50
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Add PAC (30%)	\$	21,371.35
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Appendix B – Geologist's Certificate

GEOLOGIST`S CERTIFICATE

I, Hilary C. Clarke of #803-1200 West Georgia Street, Vancouver, in the province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am Serengeti Resources Inc.'s Senior Project Geologist.
2. THAT I am a 2004 graduate of Trinity College Dublin with an Honours BA.
3. THAT I have practised in the field of Geosciences since my graduation from University.
4. THAT this report is based on fieldwork carried out on July 14th to 19th, 2012, by Hugh Samson and staff of Serengeti Resources Inc. This work was supervised by the co-Author Hugh Samson.
5. THAT this report was written by myself under the supervision and direction of David W. Moore, President and CEO of Serengeti Resources Inc. and a Professional Geoscientist (P. Geo) registered and in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (#28163).

DATED at Vancouver, British Columbia this 7th day of Hgdtwct{, 2016.

Hilary C. Clarke, B.A. (Hons.)



David W. Moore, P. Geo



Appendix C – Field Notes and Samples List 2013 Program

Kwanika East 2013
Ah Samples

Property	Line	Station	Sample #	GPS waypoint	TYPE	Zone	Easting (NAD83)	Northing (NAD83)	Elevation	Date	Sampler	Slope	Environment	Moisture	Notes	Certificate #
Kwanika East	2	5	1964003	L2-5	AH	10	359476.9564	6161956.348		18/06/2013	TW	3	1	1		SMI13000061
Kwanika East	2	11	1964006	L2-11	AH	10	359471.5636	6161656.397		18/06/2013	TW	3	1	2		SMI13000061
Kwanika East	3	1	1964012	L3-1	AH	10	359980.4708	6162147.328		19/06/2013	TW	2	1	3		SMI13000061
Kwanika East	3	4	1964013	L3-4	AH	10	359977.7744	6161997.352		19/06/2013	TW	3	1	3		SMI13000061
Kwanika East	3	8	1964014	L3-8	AH	10	359974.1792	6161797.385		19/06/2013	TW	3	1	3		SMI13000061
Kwanika East	4	10	1964016	L4-10	AH	10	360472.3008	6161688.413		19/06/2013	TW	3	1	3		SMI13000061
Kwanika East	4	4	1964018	L4-4	AH	10	360477.6936	6161988.364		19/06/2013	TW	3	1	2		SMI13000061
Kwanika East	2	4	1964328	L2-4	AH	10	359477.8552	6162006.34		18/06/2013	LA	3	2	1		SMI13000061
Kwanika East	2	8	1964330	L2-8	AH	10	359474.26	6161806.372		18/06/2013	LA	2	2	2		SMI13000061
Kwanika East	3	3	1964337	L3-3	AH	10	359978.6732	6162047.344		19/06/2013	LA	2	2	1		SMI13000061
Kwanika East	3	6	1964339	L3-6	AH	10	359975.9768	6161897.368		19/06/2013	La	2	2	2		SMI13000061
Kwanika East	3	10	1964340	L3-10	AH	10	359972.3816	6161697.401		19/06/2013	LA	2	2	1		SMI13000061
Kwanika East	1	8	1964397	L1-8	AH	10	358974.3408	6161815.36		18/06/2013	HC	5	2	3	Swampy- v wet, Ah in roots	SMI13000061
Kwanika East	1	12	1964399	L1-12	AH	10	358970.7456	6161615.393		18/06/2013	HC	3	2	1		SMI13000061
Kwanika East	1	14	1964400	L1-14	AH	10	358968.948	6161515.409		18/06/2013	HC	4	2	3		SMI13000061
Kwanika East	1	1	1964448	L1-1	AH	10	358980.6324	6162165.304		18/06/2013	HC/JA	1	2	1		SMI13000061
Kwanika East	3	7	1964460	L3-7	AH	10	359975.078	6161847.376		19/06/2013	LA	2	2	2		SMI13000061
Kwanika East	3	9	1964461	L3-9	AH	10	359973.2804	6161747.393		19/06/2013	JA	1	2	1		SMI13000061
Kwanika East	3	11	1964462	L3-11	AH	10	359971.4828	6161647.409		19/06/2013	JA	1	2	1		SMI13000061

SIR Kwanika East 2013
B Horizon Samples

Property	Line	Station	Sample #	GPS waypoint	TYPE	Zone	Easting (NAD83)	Northing (NAD83)	Elevation	Date	Sampler	Slope	Environment	Moisture	Depth (cm)	Colour	Notes	Certificate #
Kwanika East	1	16	1445455	L1-16	B	10	358967.1504	6161415.425		18/06/2013	HC	3	2	2	15	orange-brown		SM11300062
Kwanika East	1	18	1445456	L1-18	B	10	358965.3528	6161315.441		18/06/2013	HC	4	2	2	15	orange-brown		SM11300062
Kwanika East	2	1	1964001	L2-1	B	10	359480.5516	6162156.316		18/06/2013	TW	2	1	5	5	brown		SM11300062
Kwanika East	2	3	1964002	L2-3	B	10	359478.754	6162056.332		18/06/2013	TW	2	1	1	5	red-brown		SM11300062
Kwanika East	2	7	1964004	L2-7	B	10	359475.1588	6161856.364		18/06/2013	TW	3	1	1	5	light-brown		SM11300062
Kwanika East	2	9	1964005	L2-9	B	10	359473.3612	6161756.381		18/06/2013	TW	3	1	1	5	light-brown		SM11300062
Kwanika East	2	13	1964007	L2-13	B	10	359469.766	6161556.413		18/06/2013	TW	3	1	1	8	light-brown		SM11300062
Kwanika East	2	15	1964008	L2-15	B	10	359467.9684	6161456.429		18/06/2013	TW	3	1	1	3	light-brown		SM11300062
Kwanika East	2	17	1964009	L2-17	B	10	359466.1708	6161356.445		18/06/2013	TW	3	1	1	5	red-brown		SM11300062
Kwanika East	2	19	1964010	L2-19	B	10	359464.3732	6161256.461		18/06/2013	TW	3	1	1	4	light-brown		SM11300062
Kwanika East	1	21	1964011	L1-21	B	10	358962.6564	6161165.465		18/06/2013	TW	3	1	1	4	orange-brown		SM11300062
Kwanika East	3	12	1964015	L3-12	B	10	359970.584	6161597.417		19/06/2013	TW	3	1	3	4	brown		SM11300062
Kwanika East	4	7	1964017	L4-7	B	10	360474.9972	6161838.388		19/06/2013	TW	1	1	1	1	orange-brown		SM11300062
Kwanika East	2	2	1964327	L2-2	B	10	359479.6528	6162106.324		18/06/2013	LA	4	2	1	5	orange-brown		SM11300062
Kwanika East	2	12	1964332	L2-12	B	10	359470.6648	6161606.405		18/06/2013	LA	4	2	2	10	brown		SM11300062
Kwanika East	2	14	1964333	L2-14	B	10	359468.8672	6161506.421		18/06/2013	LA	2	2	2	2	light-brown		SM11300062
Kwanika East	2	16	1964334	L2-16	B	10	359467.0696	6161406.437		18/06/2013	LA	2	2	1	10	light-brown to red-brown		SM11300062
Kwanika East	1	20	1964336	L1-20	B	10	358963.5552	6161215.457		18/06/2013	LA	2	2	1	10	light-brown - orange-brown		SM11300062
Kwanika East	4	8	1964342	L4-8	B	10	360474.0984	6161788.397		19/06/2013	LA	3	2	1	2	red-brown	moss straight to B	SM11300062
Kwanika East	4	5	1964343	L4-5	B	10	360476.7948	6161938.372		19/06/2013	LA	3	2	1	2	orange-brown	moss straight to B	SM11300062
Kwanika East	1	6	1964396	L1-6	B	10	358976.1384	6161915.344		18/06/2013	HC	1	2	1	15			SM11300062
Kwanika East	1	1	1964449	L1-1	B	10	358980.6324	6162165.304		18/06/2013	HC/JA	1	2	1	20	brown		SM11300062
Kwanika East	1	2	1964451	L1-2	B	10	358979.7336	6162115.312		18/06/2013	JA	1	2	1	6	light brown		SM11300062
Kwanika East	1	4	1964452	L1-4	B	10	358977.936	6162015.328		18/06/2013	JA	1	2	1	7	light brown		SM11300062
Kwanika East	1	9	1964453	L1-9	B	10	358973.442	6161765.369		18/06/2013	JA	4	2	1	6	red brown		SM11300062
Kwanika East	1	11	1964454	L1-11	B	10	358971.6444	6161665.385		18/06/2013	JA	4	2	1	4	light brown		SM11300062
Kwanika East	1	13	1964455	L1-13	B	10	358969.8468	6161565.401		18/06/2013	JA	4	2	1	6	light brown		SM11300062
Kwanika East	1	15	1964456	L1-15	B	10	358968.0492	6161465.417		18/06/2013	JA	4	2	1	10	light brown		SM11300062
Kwanika East	1	17	1964457	L1-17	B	10	358966.2516	6161365.433		18/06/2013	JA	4	2	1	10	light brown		SM11300062
Kwanika East	1	19	1964458	L1-19	B	10	358964.454	6161265.449		18/06/2013	JA	4	2	1	10	light brown		SM11300062
Kwanika East	4	9	1964463	L4-9	B	10	360473.1996	6161738.405		19/06/2013	JA	1	2	1	2	dark brown		SM11300062
Kwanika East	4	6	1964464	L4-6	B	10	360475.896	6161888.38		19/06/2013	JA	1	2	1	2	dark brown		SM11300062

SIR Kwanika East 2013
Rock Samples

Property	Sample #	GPS waypoint	Zone	Easting (NAD83)	Northing (NAD83)	Elevation (m)	Date	Lithology	Sampler	Notes	Type of Sample (Outcrop, subcrop, float, talus)	Width (cm)	ACME Job #
Kwanika East	1965154	R1965154	10	358556	6162149	1125	18/06/2013	Granite	HC	Fe-stained, weathered [altered?] granitic composition, belts Fe-ox poss after sulphides. In area of anomalous sil geochem. Mostly fresh granite-syenite in area.	Float	15	SM13000067
Kwanika East	1965155	R1965155	10	358431	6160826		20/06/2013	UNK	HC/LA	Float boulder, pale green-white, silica-sericite altered- strong fabric present, poss due to shearing- unidentifiable orig textures. no sulphides noted, some Fe-ox on surface	Float		SM13000067
Kwanika East	1965156	R1965156	10	358783	6163923		20/06/2013	GRDio	LA	Rounded float boulders 40cm, look like dry river bed- granodiorite with hblid alt to wk chlorite. 1-3mm sulphide stringers, py-only? Partial Fe-ox- wk patchy mt	Float		SM13000067

SIR Kwanika East 2013
Silt Samples

Sampler									
Property	Sample #	Zone	Easting (NAD83)	Northing (NAD83)	Date	Stream Width	Stream Order	Notes	ACME Job #
Kwanika East	1445453	10	358702	6162099	18/06/2013	HC	1.2m	Fast flowing stream, running to South. Small boulders, no large-seeds quite sandy of granitic comp	SMI13000073
Kwanika East	1445454	10	358977	6161820	18/06/2013	HC	1m	Fast flowing stream, sample taken in bend to east. Some small boulders-seeds quite sandy of granitic comp	SMI13000073
Kwanika East	1445209	10	358955	6161994	18/06/2013	LA	2m	Fast and deep river, running NW-SE. Taken from edge and braided channel	SMI13000073
Kwanika East	1445210	10	359125	6162048	18/06/2013	LA	1.5m	Fast flowing N-S river. Very rocky, very little fine:	SMI13000073
Kwanika East	1445211	10	359480	6162106	18/06/2013	LA	0.5m	Slow to moderate river, running E-W.	SMI13000073
Kwanika East	1445212	10	359478	6161641	18/06/2013	LA	1m	slow stream running N-S. Fines and gravel only	SMI13000073
Kwanika East	1445213	10	359482	6161330	18/06/2013	LA	2m	Fast and wide river. Fines in bend and dam from fallen trees	SMI13000073
Kwanika East	1445214	10	359643	6162239	19/06/2013	LA	1	slow stream, running approx N-S. Lots of organics. Mix of fine and large rocks	SMI13000073
Kwanika East	1445215	10	359983	6161794	19/06/2013	LA	0.3m	small stream, running E-W, fine sed to cobbles. Sed are predominantly reddish coloured	SMI13000073
Kwanika East	1445457	10	358419	6160742	20/06/2013	HC/LA	1	Creek running to south from north, clear flowing, fast- granitic-dioritic rounded boulders in creek and generally in area with rare float of green volcanic tuff. Silt sampled below sandy gravels	SMI13000073

SIR Smoke 2014
Ah Samples

Property	Line	Station	Sample #	GPS waypoint	TYPE	Zone	Easting	Northing	Elevation	Date	Sampler	Slope	Environment	Moisture	Notes	Ticket 2-Ticket	Certificate #
Smoke	7	9	1964312	L7-9	AH		353873.4607	6161035.955		14/06/2013	LA	3	2	1		1964312	SMI13000060
Smoke	7	5	1964310	L7-5	AH		353532.5872	6160826.658		14/06/2013	LA	2	2	1		1964310	SMI13000060
Smoke	7	3	1964309	L7-3	AH		353362.1504	6160722.009		14/06/2013	LA	4	1	3		1964309	SMI13000060
Smoke	1	12	1964303	L1-12	AH		355497.0442	6159920.618		13/06/2013	TW					1964303	SMI13000060
Smoke	3	10	1964028	L3-10	AH		354586.57	6160065.659		20/06/2013	TW	3	1	3		1964028	SMI13000060
Smoke	9	1	1964317	L9-1	AH		352877.7682	6161128.671		15/06/2013	TW	3	1	2		1964317	SMI13000060
Smoke	1	15	1964305	L1-15	AH		355752.6994	6160077.591		13/06/2013	LA					1964305	SMI13000060
Smoke	1	9	1964301	L1-9	AH		355241.389	6159763.645		13/06/2013	TW					1964301	SMI13000060
Smoke	6	1	1964401	L6-1	AH		353348.6864	6160361.706		14/06/2013	JA	5	3	2		1964401	SMI13000060
Smoke	9	18	1964322	L9-18	AH		354326.4808	6162018.183		15/06/2013	LA	3	2	1		1964322	SMI13000060
Smoke	3	19	1964037	L3-19	AH		355353.5355	6160536.577		20/06/2013	TW	2	1	2		1964037	SMI13000060
Smoke	6	15	1964410	L6-15	AH		354541.7438	6161094.245		14/06/2013	HC	4	1	2		1964410	SMI13000060
Smoke	1	11	1964302	L1-11	AH		355411.8258	6159868.294		13/06/2013	TW					1964302	SMI13000060
Smoke	7	17	1964315	L7-17	AH		354555.2078	6161454.549		14/06/2013	LA	5	1	2		1964315	SMI13000060
Smoke	6	8	1964406	L6-8	AH		353945.2151	6160727.976		14/06/2013	JA	1	3	2		1964406	SMI13000060
Smoke	9	10	1964319	L9-10	AH		353644.7337	6161599.589		15/06/2013	LA	3	2	1		1964319	SMI13000060
Smoke	7	6	1964311	L7-6	AH		353617.8056	6160878.982		14/06/2013	TW	3	1	3		1964311	SMI13000060
Smoke	7	1	1964307	L7-1	AH	10	353191.7136	6160617.361		14/06/2013	LA	3	2	1		1964307	SMI13000060
Smoke	1	16	1964306	L1-16	AH		355837.9178	6160129.915		13/06/2013	TW					1964306	SMI13000060
Smoke	9	11	1964320	L9-11	AH		353729.952	6161651.914		15/06/2013	TW	3	1	3		1964320	SMI13000060
Smoke	3	7	1964025	L3-7	AH		354330.9149	6159908.686		20/06/2013	TW	3	1	2		1964025	SMI13000060
Smoke	3	12	1964030	L3-12	AH		354757.0668	6160170.307		20/06/2013	TW	3	1	3		1964030	SMI13000060
Smoke	7	2	1964308	L7-2	AH		353276.932	6160669.685		14/06/2013	TW	3	1	3		1964308	SMI13000060
Smoke	3	18	1964036	L3-18	AH		355268.3171	6160484.252		20/06/2013	TW	2	1	3		1964036	SMI13000060
Smoke	5	45	1964324	L5-45	AH		354187.4062	6160524.645		17/06/2013	JA	1	2	1		1964324	SMI13000060
Smoke	5	44	1964323	L5-44	AH		354102.1878	6160472.32		17/06/2013	TW	3	1	2		1964323	SMI13000060
Smoke	6	6	1964404	L6-6	AH		353774.7783	6160623.327		14/06/2013	HC	3	1	2		1964404	SMI13000060
Smoke	7	21	1964316	L7-21	AH		354896.0814	6161663.846		16/06/2013	TW	3	1	3		1964316	SMI13000060
Smoke	2	11	1964469	L2-11	AH		354913.9795	6159914.652		20/06/2013	JA	4	1	1		1964469	SMI13000060
Smoke	2	12	1964470	L2-12	AH		354999.1979	6159966.976		20/06/2013	JA	4	1	1		1964470	SMI13000060
Smoke	2	7	1964350	L2-7	AH		354573.106	6159705.355		20/06/2013	JA	4	2	1		1964350	SMI13000060
Smoke	3	9	1964027	L3-9	AH		354501.3516	6160013.334		20/06/2013	TW	3	1	3		1964027	SMI13000060
Smoke	9	2	1964318	L9-2	AH		352962.9866	6161180.996		15/06/2013	LA	3	1	2		1964318	SMI13000060
Smoke	9	14	1964321	L9-14	AH		353985.6072	6161808.886		15/06/2013	LA	2	2	1		1964321	SMI13000060
Smoke	7	10	1964313	L7-10	AH		353958.6791	6161088.279		14/06/2013	TW	3	1	3		1964313	SMI13000060
Smoke	5	50	1964325	L5-50	AH		354613.4981	6160786.266		17/06/2013	TW	3	1	3		1964325	SMI13000060

SIR Smoke 2014
Ah Samples

Property	Line	Station	Sample #	GPS waypoint	TYPE	Zone	Easting	Northing	Elevation	Date	Sampler	Slope	Environment	Moisture	Notes	Ticket 2- Ticket	Certificate #
Smoke	7	9	1964312	L7-9	AH		353873.4607	6161035.955		14/06/2013	LA	3	2	1		1964312	SMI13000060
Smoke	7	5	1964310	L7-5	AH		353532.5872	6160826.658		14/06/2013	LA	2	2	1		1964310	SMI13000060
Smoke	7	3	1964309	L7-3	AH		353362.1504	6160722.009		14/06/2013	LA	4	1	3		1964309	SMI13000060
Smoke	1	12	1964303	L1-12	AH		354597.0442	6159920.618		13/06/2013	TW					1964303	SMI13000060
Smoke	3	10	1964028	L3-10	AH		354586.57	6160065.659		20/06/2013	TW	3	1	3		1964028	SMI13000060
Smoke	9	1	1964317	L9-1	AH		352877.7682	6161128.671		15/06/2013	TW	3	1	2		1964317	SMI13000060
Smoke	1	15	1964305	L1-15	AH		355752.6994	6160077.591		13/06/2013	LA					1964305	SMI13000060
Smoke	1	9	1964301	L1-9	AH		355241.389	6159763.645		13/06/2013	TW					1964301	SMI13000060
Smoke	6	1	1964401	L6-1	AH		353348.6864	6160361.706		14/06/2013	JA	5	3	2		1964401	SMI13000060
Smoke	9	18	1964322	L9-18	AH		354326.4808	6162018.183		15/06/2013	LA	3	2	1		1964322	SMI13000060
Smoke	3	19	1964037	L3-19	AH		355353.5355	6160536.577		20/06/2013	TW	2	1	2		1964037	SMI13000060
Smoke	6	15	1964410	L6-15	AH		354541.7438	6161094.245		14/06/2013	HC	4	1	2		1964410	SMI13000060
Smoke	1	11	1964302	L1-11	AH		355411.8258	6159868.294		13/06/2013	TW					1964302	SMI13000060
Smoke	7	17	1964315	L7-17	AH		354555.2078	6161454.549		14/06/2013	LA	5	1	2		1964315	SMI13000060
Smoke	6	8	1964406	L6-8	AH		353945.2151	6160727.976		14/06/2013	JA	1	3	2		1964406	SMI13000060
Smoke	9	10	1964319	L9-10	AH		353644.7337	6161599.589		15/06/2013	LA	3	2	1		1964319	SMI13000060
Smoke	7	6	1964311	L7-6	AH		353617.8056	6160878.982		14/06/2013	TW	3	1	3		1964311	SMI13000060
Smoke	7	1	1964307	L7-1	AH	10	353191.7136	6160617.361		14/06/2013	LA	3	2	1		1964307	SMI13000060
Smoke	1	16	1964306	L1-16	AH		355837.9178	6160129.915		13/06/2013	TW					1964306	SMI13000060
Smoke	9	11	1964320	L9-11	AH		353729.952	6161651.914		15/06/2013	TW	3	1	3		1964320	SMI13000060
Smoke	3	7	1964025	L3-7	AH		354330.9149	6159908.686		20/06/2013	TW	3	1	2		1964025	SMI13000060
Smoke	3	12	1964030	L3-12	AH		354757.0068	6160170.307		20/06/2013	TW	3	1	3		1964030	SMI13000060
Smoke	7	2	1964308	L7-2	AH		353276.932	6160669.685		14/06/2013	TW	3	1	3		1964308	SMI13000060
Smoke	3	18	1964036	L3-18	AH		355268.3171	6160484.252		20/06/2013	TW	2	1	3		1964036	SMI13000060
Smoke	5	45	1964324	L5-45	AH		354187.4062	6160524.645		17/06/2013	JA	1	2	1		1964324	SMI13000060
Smoke	5	44	1964323	L5-44	AH		354102.1878	6160472.32		17/06/2013	TW	3	1	2		1964323	SMI13000060
Smoke	6	6	1964404	L6-6	AH		353774.7783	6160623.327		14/06/2013	HC	3	1	2		1964404	SMI13000060
Smoke	7	21	1964316	L7-21	AH		354896.0814	6161663.846		16/06/2013	TW	3	1	3		1964316	SMI13000060
Smoke	2	11	1964469	L2-11	AH		354913.9795	6159914.652		20/06/2013	JA	4	1	1		1964469	SMI13000060
Smoke	2	12	1964470	L2-12	AH		354999.1979	6159966.976		20/06/2013	JA	4	1	1		1964470	SMI13000060
Smoke	2	7	1964350	L2-7	AH		354573.106	6159705.355		20/06/2013	JA	4	2	1		1964350	SMI13000060
Smoke	3	9	1964027	L3-9	AH		354501.3516	6160013.334		20/06/2013	TW	3	1	3		1964027	SMI13000060
Smoke	9	2	1964318	L9-2	AH		352962.9866	6161180.996		15/06/2013	LA	3	1	2		1964318	SMI13000060
Smoke	9	14	1964321	L9-14	AH		353985.6072	6161808.886		15/06/2013	LA	2	2	1		1964321	SMI13000060
Smoke	7	10	1964313	L7-10	AH		353958.6791	6161088.279		14/06/2013	TW	3	1	3		1964313	SMI13000060
Smoke	5	50	1964325	L5-50	AH		354618.4981	6160786.266		17/06/2013	TW	3	1	3		1964325	SMI13000060
Smoke	1	13	1964304	L1-13	AH		355582.2626	6159972.942		13/06/2013	TW					1964304	SMI13000060
Smoke	7	13	1964314	L7-13	AH		354214.3343	6161245.252		14/06/2013	LA	5	2	2		1964314	SMI13000060
Smoke	4	8	1964326	L4-8	AH		354259.1605	6160216.665		17/06/2013	TW	3	1	2	Small sample	1964326	SMI13000060
Smoke	6	3	1964402	L6-3	AH		353519.1231	6160466.354		14/06/2013	HC	5	1	2	Moist sample	1964402	SMI13000060
Smoke	6	5	1964403	L6-5	AH		353689.5599	6160571.003		14/06/2013	JA	5	2	2		1964403	SMI13000060
Smoke	6	7	1964405	L6-7	AH		353859.9967	6160675.651		14/06/2013	HC	3	1	2		1964405	SMI13000060
Smoke	6	9	1964407	L6-9	AH		354030.4335	6160780.3		14/06/2013	JA					1964407	SMI13000060
Smoke	6	11	1964408	L6-11	AH		354200.8702	6160884.948		14/06/2013	HC	3	1	2		1964408	SMI13000060
Smoke	6	12	1964409	L6-12	AH		354286.0886	6160937.272		14/06/2013	HC	3	1	2		1964409	SMI13000060
Smoke	6	4	1964427	L6-4	AH		353604.3415	6160518.679		14/06/2013	HC					1964427	SMI13000060
Smoke	8	2	1964429	L8-2	AH		353119.9593	6160925.34		15/06/2013	HC	4	1	2	Deep soil, goc	1964429	SMI13000060
Smoke	3	4	1964022	L3-4	AH		354075.2597	6159751.713		20/06/2013	TW	4	1	3		1964022	SMI13000060
Smoke	3	6	1964024	L3-6	AH		354245.6965	6159856.362		20/06/2013	TW	2	1	3		1964024	SMI13000060
Smoke	3	8	1964026	L3-8	AH		354416.1333	6159961.01		20/06/2013	TW	3	1	2		1964026	SMI13000060
Smoke	3	11	1964029	L3-11	AH		354671.7884	6160117.983		20/06/2013	TW	2	1	2		1964029	SMI13000060
Smoke	2	18	1964041	L2-18	AH		355510.5082	6160280.922		20/06/2013	TW	3	1	2		1964041	SMI13000060
Smoke	2	17	1964040	L2-17	AH		355425.2899	6160228.597		20/06/2013	TW	3	1	3		1964043	SMI13000060

SIR Smoke 2013
B Soil Samples

Property	Line	Station	Sample #	GPS	TYPE	Zone	Easting	Northing	Elevation	Date	Sampler	Slope	Environment	Moisture	Depth (cm)	Colour	Notes	Certificate #
Smoke	9	3	1964351	L9-3	B		353048.2	6161233.32		15/06/2013	TW	3	1			10 cm, bn		SMI13000063
Smoke	9	4	1964352	L9-4	B		353133.42	6161285.64		15/06/2013	LA	2		2		12 cm, lt bn		SMI13000063
Smoke	9	5	1964353	L9-5	B		353218.64	6161337.97		15/06/2013	TW	3	1			10 cm, lt bn		SMI13000063
Smoke	9	6	1964354	L9-6	B		353303.86	6161390.29		15/06/2013	LA	3	2	1		20 cm, med. Bn		SMI13000063
Smoke	9	7	1964355	L9-7	B		353389.08	6161442.62		15/06/2013	TW	3	1			4 cm, red bn		SMI13000063
Smoke	9	12	1964356	L9-12	B		353815.17	6161704.24		15/06/2013	LA	3	2	1		5 cm , brown		SMI13000063
Smoke	9	15	1964357	L9-15	B		354070.83	6161861.21		15/06/2013	TW	3	1		30	dark brown		SMI13000063
Smoke	9	17	1964358	L9-17	B		354241.26	6161965.86		15/06/2013	TW	3	1			8 cm , red bn		SMI13000063
Smoke	9	22	1964359	L9-22	B		354667.35	6162227.48		15/06/2013	TW	3	1			35 cm, brown		SMI13000063
Smoke	9	23	1964360	L9-23	B		354752.57	6162279.81		15/06/2013	TW	3	1			8 cm, lt bn		SMI13000063
Smoke	9	26	1964361	L9-26	B		355008.23	6162436.78		15/06/2013	LA	2	2	1		30 cm, orange brown		SMI13000063
Smoke	9	27	1964362	L9-27	B		355093.45	6162489.1		15/06/2013	TW	3	1			10 cm, red bn		SMI13000063
Smoke	9	28	1964363	L9-28	B		355178.66	6162541.43		15/06/2013	TW	3	1			10 cm, dark bn		SMI13000063
Smoke	7	18	1964364	L7-18	B		354640.43	6161506.87		14/06/2013	TW	4	1			20 cm Light Brown		SMI13000063
Smoke	7	19	1964365	L7-19	B		354725.64	6161559.2		14/06/2013	TW	4	1			10 cm, Light brown		SMI13000063
Smoke	7	20	1964366	L7-20	B		354810.86	6161611.52		14/06/2013	TW	3	1			8 cm, light brown		SMI13000063
Smoke	7	22	1964367	L7-22	B		354981.3	6161716.17		16/06/2013	TW	3	1			5 cm, lb		SMI13000063
Smoke	7	23	1964368	L7-23	B		355066.52	6161768.49		16/06/2013	TW	3	1			8 cm, lb		SMI13000063
Smoke	7	24	1964369	L7-24	B		355151.74	6161820.82		16/06/2013	TW	3	1			5 cm, lb		SMI13000063
Smoke	7	25	1964370	L7-25	B		355236.95	6161873.14		16/06/2013	TW	3	1			4 cm, lb		SMI13000063
Smoke	7	28	1964371	L7-28	B		355492.61	6162030.12		16/06/2013	TW	3	1			10 cm, red bn		SMI13000063
Smoke	7	29	1964372	L7-29	B		355577.83	6162082.44		16/06/2013	TW	3	1			5 cm, red bn		SMI13000063
Smoke	7	31	1964373	L7-31	B		355748.27	6162187.09		16/06/2013	TW	3	1			10 cm, red brown		SMI13000063
Smoke	7	33	1964374	L7-33	B		355918.7	6162291.74		16/06/2013	TW	3	1			20 cm, light brown		SMI13000063
Smoke	5	39	1964375	L5-39	B		353676.1	6160210.7		17/06/2013	JA	4	1	1		5 light brown		SMI13000063
Smoke	5	37	1964376	L5-37	B		353505.66	6160106.05		17/06/2013	JA	4	2	2		6 light brown		SMI13000063
Smoke	5	38	1964377	L5-38	B		353590.88	6160158.38		17/06/2013	TW	3	3			10 red brown		SMI13000063
Smoke	5	40	1964378	L5-40	B		353761.31	6160263.02		17/06/2013	TW	3	1			25 light brown		SMI13000063
Smoke	5	41	1964379	L5-41	B		353846.53	6160315.35		17/06/2013	JA	3	1	1		4 light brown		SMI13000063
Smoke	5	42	1964380	L5-42	B		353931.75	6160367.67		17/06/2013	TW	3	1			15 light brown		SMI13000063
Smoke	5	46	1964381	L5-46	B		354272.62	6160576.97		17/06/2013	TW	3	1			20 brown		SMI13000063
Smoke	5	47	1964382	L5-47	B		354357.84	6160629.29		17/06/2013	JA	1	2	3		10 dark brown		SMI13000063
Smoke	5	48	1964383	L5-48	B		354443.06	6160681.62		17/06/2013	TW	3	1			30 orange-brown		SMI13000063
Smoke	5	49	1964384	L5-49	B		354528.28	6160733.94		17/06/2013	JA	1	2	2		8 dark brown		SMI13000063
Smoke	5	51	1964385	L5-51	B		354698.72	6160838.59		17/06/2013	JA	4	2	2		10 light brown		SMI13000063
Smoke	5	52	1964386	L5-52	B		354783.93	6160890.91		17/06/2013	TW	3	1			8 light brown		SMI13000063
Smoke	5	53	1964387	L5-53	B		354869.15	6160943.24		17/06/2013	JA	4	2	3		9 light brown		SMI13000063
Smoke	5	55	1964388	L5-55	B		355039.59	6161047.89		17/06/2013	JA							SMI13000063
Smoke	5	56	1964389	L5-56	B		355124.81	6161100.21		17/06/2013	TW	3	1			5 light brown		SMI13000063
Smoke	4	1	1964390	L4-1	B		353662.63	6159850.4		17/06/2013	TW	3	3			10 red-brown		SMI13000063
Smoke	4	2	1964391	L4-2	B		353747.85	6159902.72		17/06/2013	TW	3	3			5 light-brown		SMI13000063
Smoke	4	4	1964392	L4-4	B		353918.29	6160007.37		17/06/2013	TW	3	1			15 light-brown		SMI13000063
Smoke	4	5	1964393	L4-5	B	10	354003.51	6160059.69		17/06/2013								SMI13000063
Smoke	4	6	1964394	L4-6	B	10	354088.72	6160112.02		17/06/2013	TW	3	1			10 light-brown		SMI13000063
Smoke	4	10	1964395	L4-10	B	10	354429.6	6160321.31		17/06/2013	TW	3	1			10 light-brown		SMI13000063
Smoke	6	17	1964412	L6-17	B	10	354712.18	6161198.89		16/06/2013	JA	4	1	2		10 brown		SMI13000063
Smoke	6	18	1964413	L6-18	B	10	354797.4	6161251.22		16/06/2013	JA	4	1	1		12 brown		SMI13000063
Smoke	6	19	1964414	L6-19	B	10	354882.62	6161303.54		16/06/2013	JA	4	2	1		5 light brown		SMI13000063
Smoke	6	21	1964415	L6-21	B	10	355053.05	6161408.19		16/06/2013	JA	4	1	1		8 light brown		SMI13000063
Smoke	6	22	1964416	L6-22	B	10	355138.27	6161460.52		16/06/2013	JA	4	2	1		10 brown		SMI13000063
Smoke	6	23	1964417	L6-23	B	10	355223.49	6161512.84		16/06/2013	JA	1	1	1		11 brown		SMI13000063
Smoke	6	25	1964418	L6-25	B	10	355393.93	6161617.49		16/06/2013	JA	1	2	1		8 light brown		SMI13000063
Smoke	6	27	1964419	L6-27	B	10	355564.36	6161722.14		16/06/2013	JA	4	2	1		10 light brown		SMI13000063
Smoke	6	28	1964420	L6-28	B	10	355649.58	6161774.46		16/06/2013	JA	4	1	1		5 light red brown		SMI13000063
Smoke	6	29	1964421	L6-29	B	10	355734.8	6161826.79		16/06/2013	JA	5	1	3		4 light red brown		SMI13000063
Smoke	6	30	1964422	L6-30	B	10	355820.02	6161879.11		16/06/2013	JA	4	2	1		6 light brown		SMI13000063
Smoke	6	31	1964423	L6-31	B	10	355905.24	6161931.43		16/06/2013	JA	5	2	1		4 light brown		SMI13000063
Smoke	6	32	1964424	L6-32	B	10	355990.46	6161983.76		16/06/2013	JA							SMI13000063
Smoke	6	33	1964425	L6-33	B	10	356075.67	6162036.08		16/06/2013	JA							SMI13000063
Smoke	6	34	1964426	L6-34	B	10	356160.89	6162088.41		16/06/2013	JA							SMI13000063
Smoke	8	1	1964428	L8-1	B	10	353034.74	6160873.02		15/06/2013	JA	3	2	1		4 light brown		SMI13000063
Smoke	8	3	1964430	L8-3	B	10	353205.18	6160977.67		15/06/2013	JA	5	2	2		6 dark brown		SMI13000063
Smoke	8	4	1964431	L8-4	B	10	353290.4	6161029.99		15/06/2013	HC	4	2	1		40 brown		SMI13000063
Smoke	8	5	1964432	L8-5	B	10	353375.61	6161082.31		15/06/2013	HC	3	2	1		30 light ylw-brwn		SMI13000063
Smoke	8	6	1964433	L8-6	B	10	353460.83	6161134.64		15/06/2013	HC	4	2	2		20 light browr: Many granitic bo		SMI13000063
Smoke	8	7	1964434	L8-7	B	10	353546.05	6161186.96		15/06/2013	JA	4	2	1		10 light brown		SMI13000063
Smoke	8	8	1964435	L8-8	B	10	353631.27	6161239.29		15/06/2013	HC	4	2	2		20 light green, slightly gravelly		SMI13000063
Smoke	8	9	1964436	L8-9	B	10	353716.49	6161291.61										SMI13000063
Smoke	8	10	1964437	L8-10	B	10	353801.71	6161343.93		15/06/2013	JA	4	2	2		8 light browr Large fresh granit		SMI13000063
Smoke	8	11	1964438	L8-11	B	10	353886.92	6161396.26		15/06/2013	HC	4	2	1		10 Orange Good soil dev		SMI13000063
Smoke	8	13	1964439	L8-13	B	10	354057.36	6161500.91		15/06/2013	HC	4	2	1		40 Med brown		SMI13000063
Smoke	8	14	1964440	L8-14	B	10	354142.58	6161553.23		15/06/2013	HC	4	2	1		50 brwn grey		SMI13000063
Smoke	8	15	1964441	L8-15	B	10	354227.8	6161605.56		15/06/2013	JA	4	2	1		6 red light brown		SMI13000063
Smoke	8	17	1964442	L8-17	B	10	354398.24	6161710.2		15/06/2013								SMI13000063
Smoke	8	18	1964443	L8-18	B	10	354483.45	6161762.53		15/06/2013	HC	1	2	2		25 brown Gravelly granitic		SMI13000063
Smoke	8	20	1964444	L8-20	B	10	354653.89	6161867.18		15/06/2013	HC	3	2	1		10 brown Big boulders here		SMI13000063
Smoke	8	21	1964445	L8-21	B	10	354739.11	6161919.5		15/06/2013	HC	4	3	1		10 brown Boggy		SMI13000063
Smoke	8	22	1964446	L8-22														

SIR Smoke 2013
Rock Samples

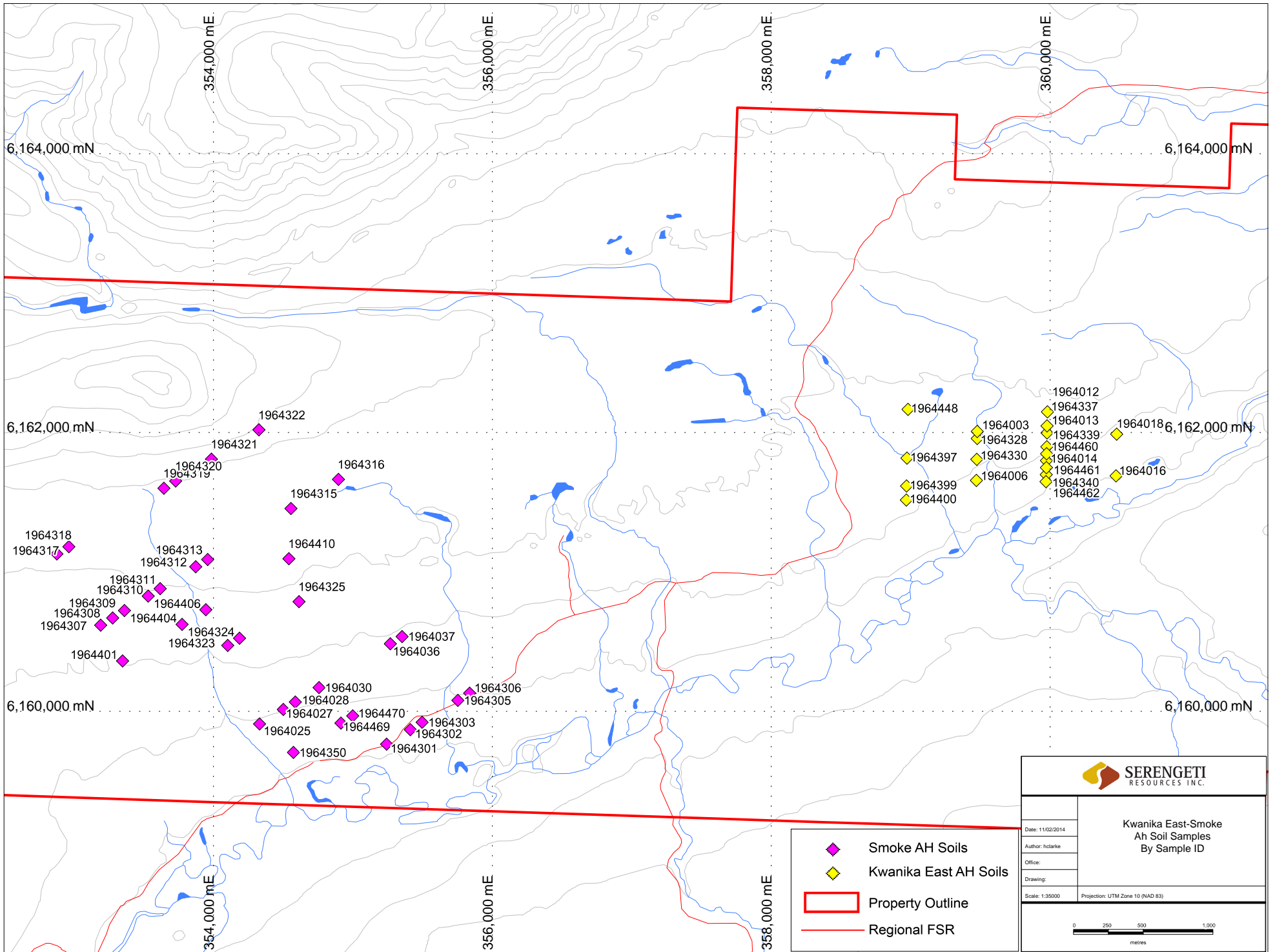
Property	Sample #	Zone	Easting (NAD83)	Northing (NAD83)	Date	Lithology	Sampler	Notes	Type of Sample (Outcrop, subcrop, float, talus)	Width	ACME Job #
Smoke	1965151	10	354998	6161440	17/06/2013	Granite	HC.LA	Subcrop block of altered granite	Subcrop	1.5m	SMI13000068
Smoke	1965152	10			17/06/2013	Granite	HC.LA	Outcropping granodiorite running along creek, equigranular crystalline- kspar, qtz, mafics selectively altered to chlorite/epidote. Magnetite disseminated (mod patchy magnetic). No veining noted. NB due to proximity to Smoke Cu Minfile and major structure here running E-W	Outcrop	4	SMI13000068
Smoke	1965153	10	354643	6162857	17/06/2013	Porphyry	HC	Boulders of coarse grained qtz-fsp porphyry, rubble coming downslope from northern side of e-w flowing creek. >1cm fsp and quartz phenos in m.g. grdmass- brown colour, poss hornfelsed. Proximal to reported Smoke Cu Minfile occurrence	Outcrop	3	SMI13000068
Smoke	1965101	10	351258	6162687	16/06/2013	Gabbro	LA.HC	dark grey, fine grained, siliceous ?gabbro. Magnetic with visible magnetite. A micaceous seam and possible granitic contact.	subcrop	1	SMI13000068
Smoke	1965102	10	351777	6162377	16/06/2013		LA.HC	sugary white-beige, coarse grained fs-qz+hbdl. With trace dissem Py (silver coloured with oxidized haloes/rims)	float		SMI13000068

SIR Smoke 2013
Silt Samples


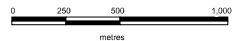
Property	Sample #	GPS waypoint	Zone	Easting (NAD83)	Northing (NAD83)	Elevation (m)	Date	Sampler	Stream Width	Stream Order	Notes	ACME Job #
Smoke	1445451		10	353873	6160676		14/06/2013	HC	1m			SMI13000072
Smoke	1445452		10	354561	6161116		14/06/2013	HC	1.2			SMI13000072
Smoke	1445201		10	355649	6160008		13/06/2013	LA	1.5		Fast flowing stream, running north south. Sample taken before stream crosses southern road on property. Rocky, hard to find fine sediments.	SMI13000072
Smoke	1445202		10	353198	6160623		14/06/2013	LA	1.0		Mod-fast flowing stream, good sediment distribution (rocks to fines)	SMI13000072
Smoke	1445203		10	354802	6161572		14/06/2013	LA	1.0		moderate flowing stream. Lots of deadfall across. Organic rich	SMI13000072
Smoke	1445204		10	353209	6161301		15/06/2013	LA	0.2		weakly flowing stream. Organic rich. Primarily fine sedir	SMI13000072
Smoke	1445205		10	354448	6162080		15/06/2013	LA	0.3		slow flowing stream running N-S	SMI13000072
Smoke	1445206		10	351063	6162596		16/06/2013	LA,HC	1.5		fast flowing stream, running N-S	SMI13000072
Smoke	1445207		10	352009	6161381		16/06/2013	LA	0.2		slowly trickling creek. NE-SW, organic rich	SMI13000072
Smoke	1445208		10	354625	6162826		17/06/2013	LA	2.0		Fast flowing creek. E-W along mapped regional fault. Primarily rocky. Finer sediments located with organics.	SMI13000072

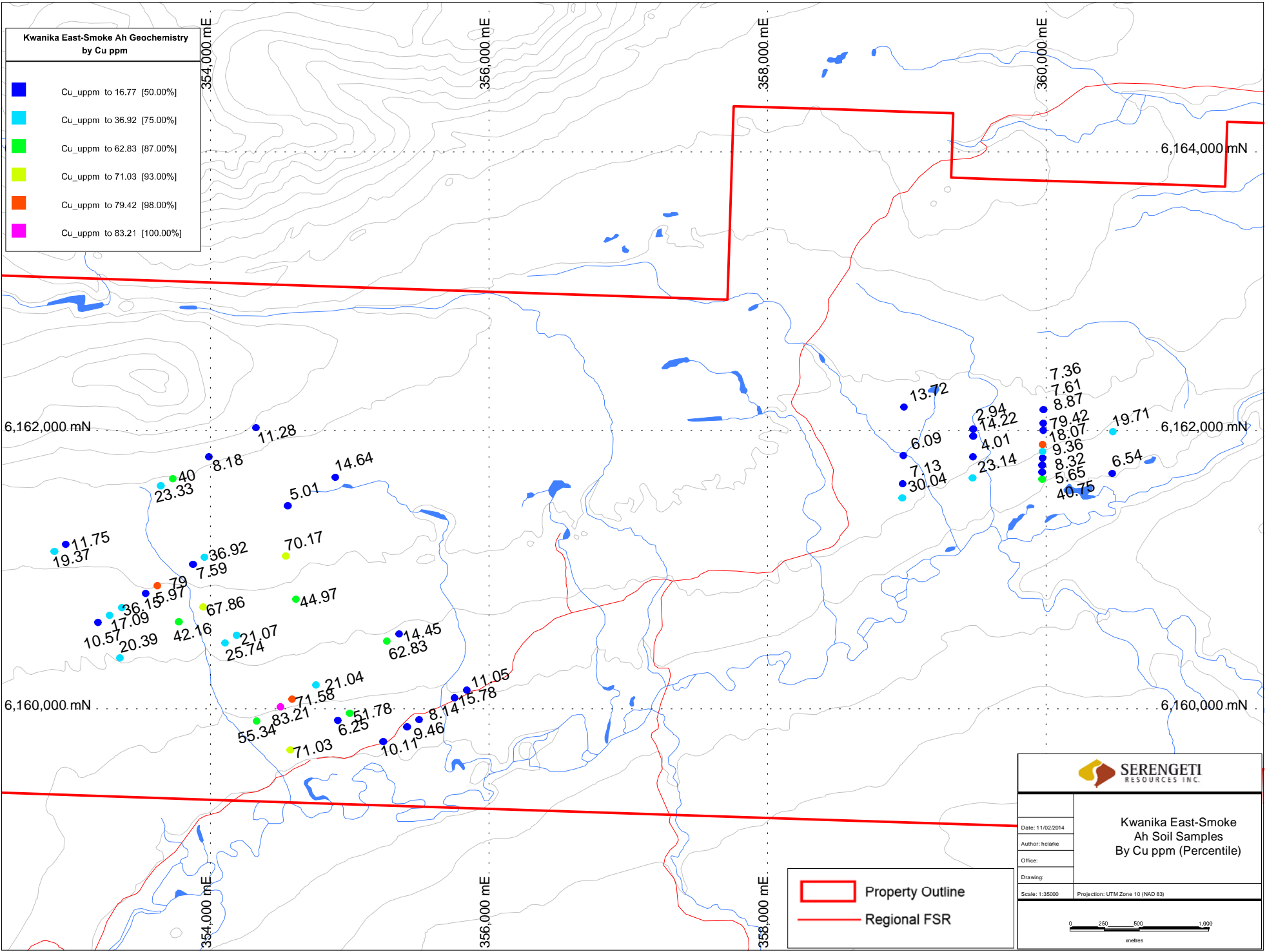
Appendix D – Maps of Sample Geochemistry

Appendix D-1 – Soil Sample Geochemistry Plots



- ◆ Smoke AH Soils
- ◆ Kwanika East AH Soils
- Property Outline
- Regional FSR

	
Date: 11/02/2014 Author: hdarke Office: Drawing: Scale: 1:25000 Projection: UTM Zone 10 (NAD 83)	Kwanika East-Smoke Ah Soil Samples By Sample ID
	



11.75
19.37

23.33
40
8.18

11.28

5.01
14.64

70.17

7.59
36.92

21.07
25.74

21.04

55.34
83.21
71.58

71.03

6.25
51.78

10.11
19.46

14.45
62.83

8.14
15.78

11.05

13.72

6.09

7.13
30.04

2.94
14.22

4.01

23.14

7.36
7.61
8.87

79.42
18.07

9.36
8.32
5.65

40.75

19.71

6.54

6,162,000.mN

6,162,000.mN

6,160,000.mN

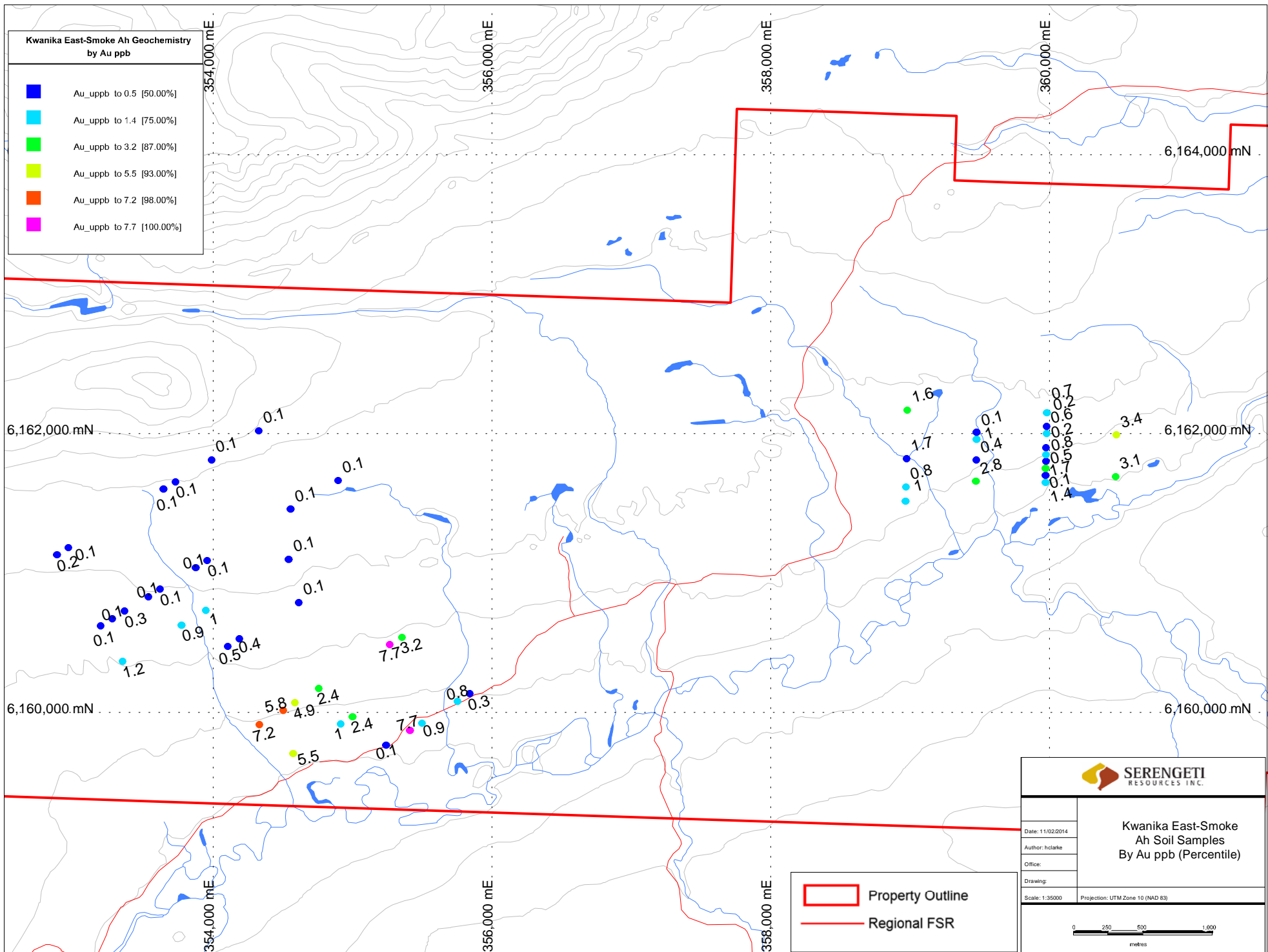
6,160,000.mN

354,000 mE

356,000 mE


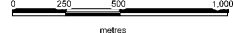
358,000 mE

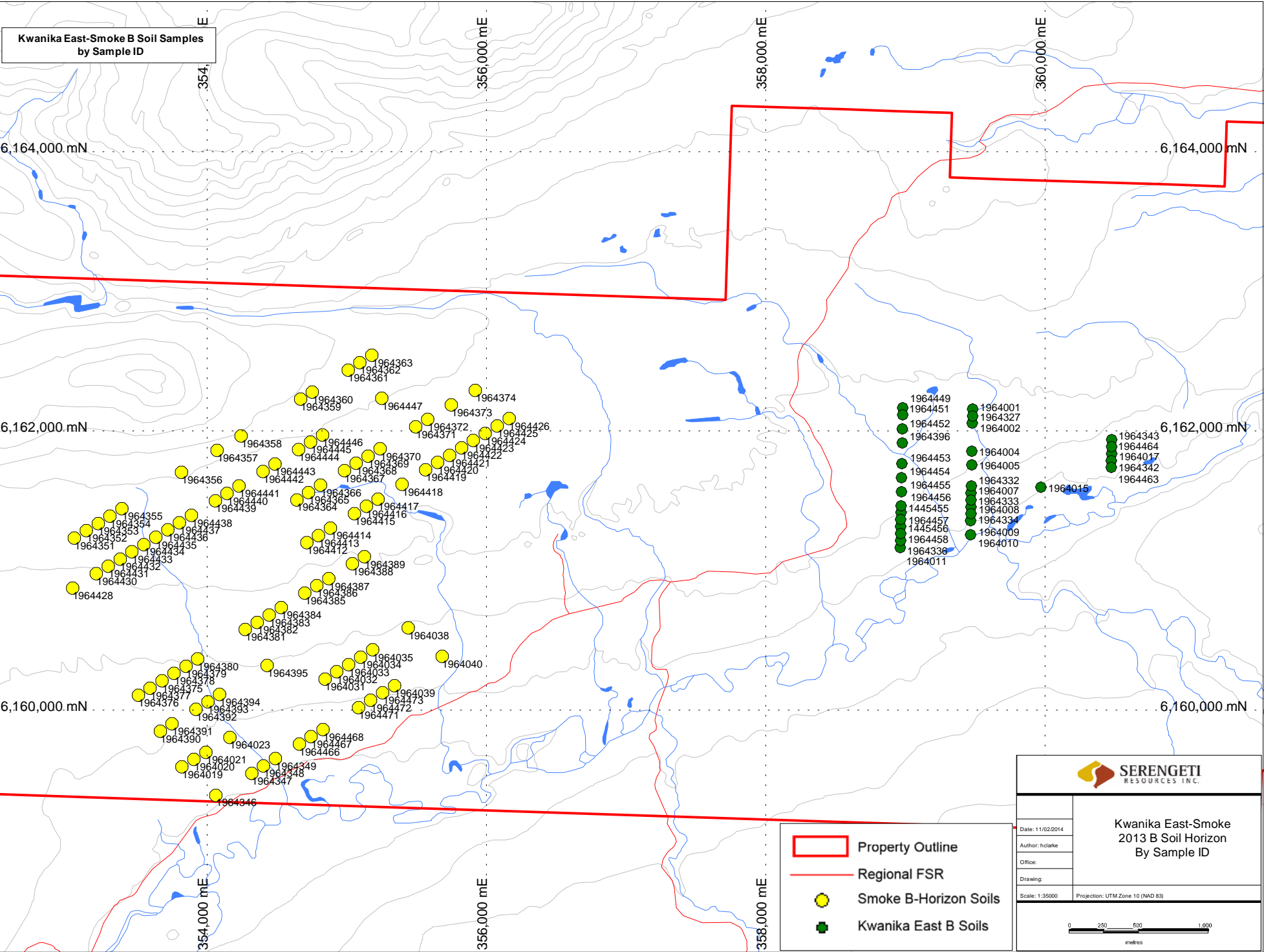
360,000 mE



Kwanika East-Smoke Ah Geochemistry by Au ppb	
■	Au_uppb to 0.5 [50.00%]
■	Au_uppb to 1.4 [75.00%]
■	Au_uppb to 3.2 [87.00%]
■	Au_uppb to 5.5 [93.00%]
■	Au_uppb to 7.2 [98.00%]
■	Au_uppb to 7.7 [100.00%]

	Property Outline
	Regional FSR

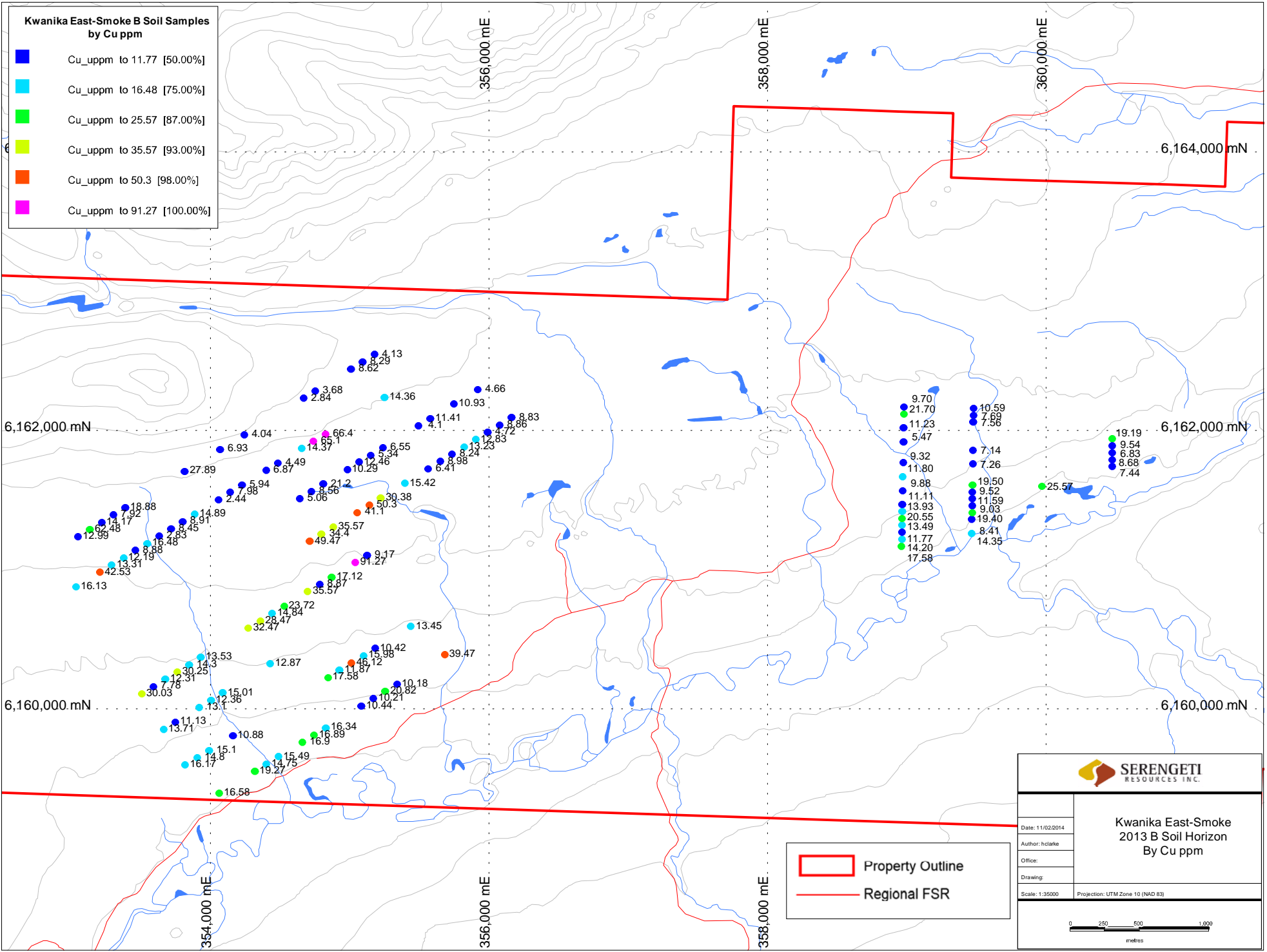
 SERENGETI RESOURCES INC.	
Kwanika East-Smoke Ah Soil Samples By Au ppb (Percentile)	
Date: 11/02/2014	
Author: hclark	
Office:	
Drawing:	
Scale: 1:35000	Projection: UTM Zone 10 (NAD 83)
	



Kwanika East-Smoke B Soil Samples
by Sample ID

<p>Date: 11/02/2014</p> <p>Author: h.clarke</p> <p>Office:</p> <p>Drawing:</p> <p>Scale: 1:35000</p> <p>Projection: UTM Zone 10 (NAD 83)</p>	<p>Kwanika East-Smoke 2013 B Soil Horizon By Sample ID</p>

- Property Outline
- Regional FSR
- Smoke B-Horizon Soils
- Kwanika East B Soils

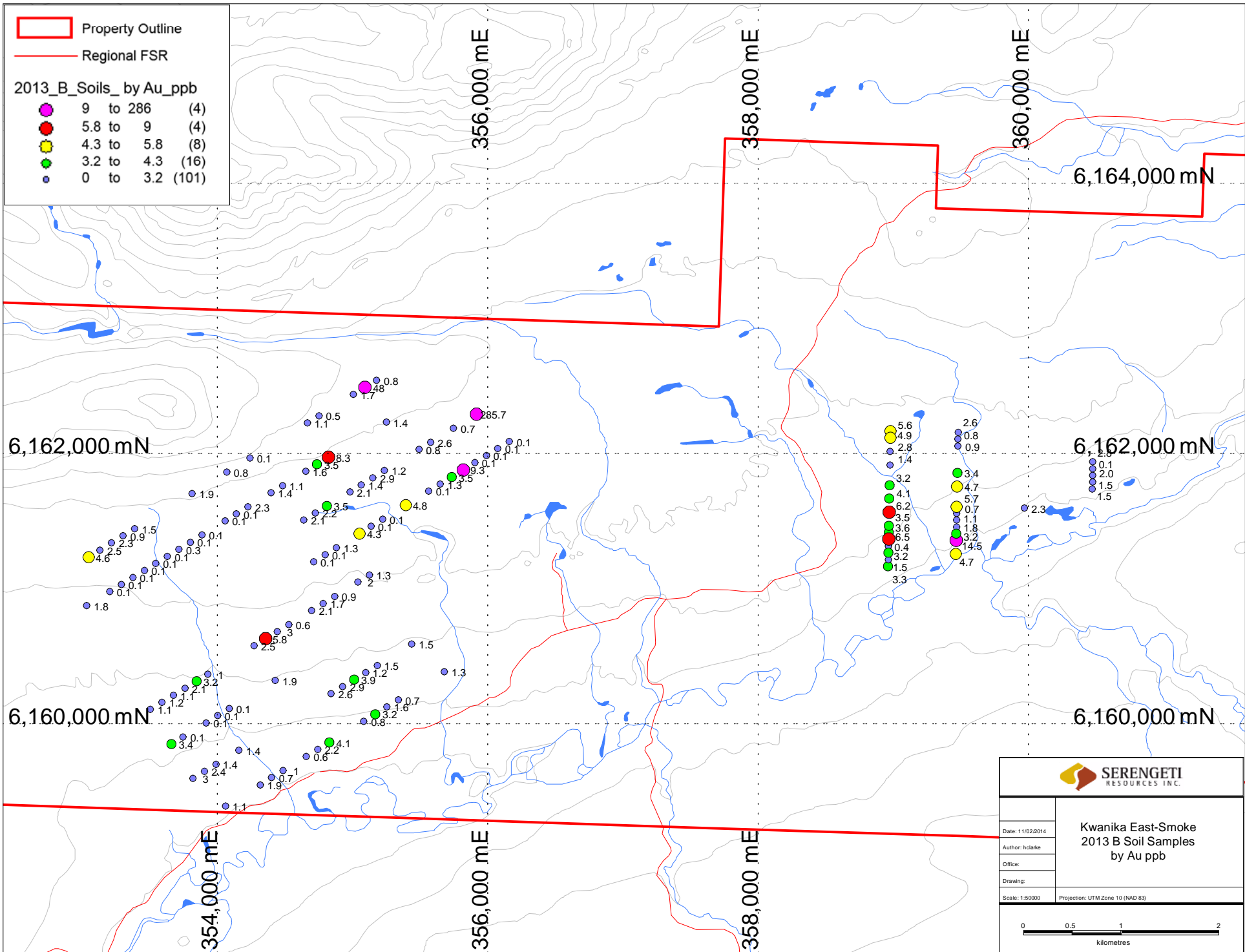


Kwanika East-Smoke B Soil Samples by Cu ppm

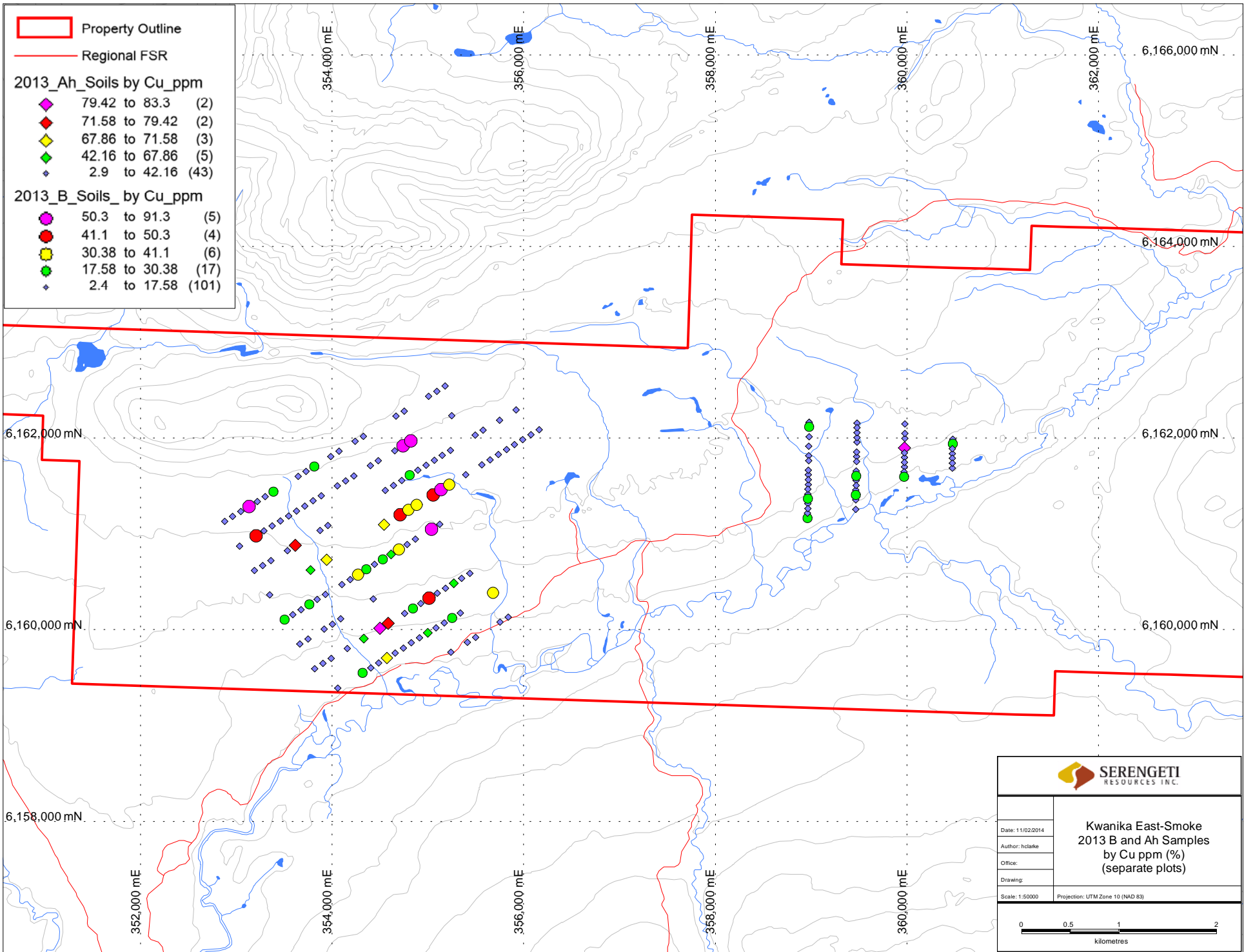
Blue	Cu_uppm to 11.77 [50.00%]
Cyan	Cu_uppm to 16.48 [75.00%]
Green	Cu_uppm to 25.57 [87.00%]
Yellow	Cu_uppm to 35.57 [93.00%]
Orange	Cu_uppm to 50.3 [98.00%]
Pink	Cu_uppm to 91.27 [100.00%]

	Property Outline
	Regional FSR

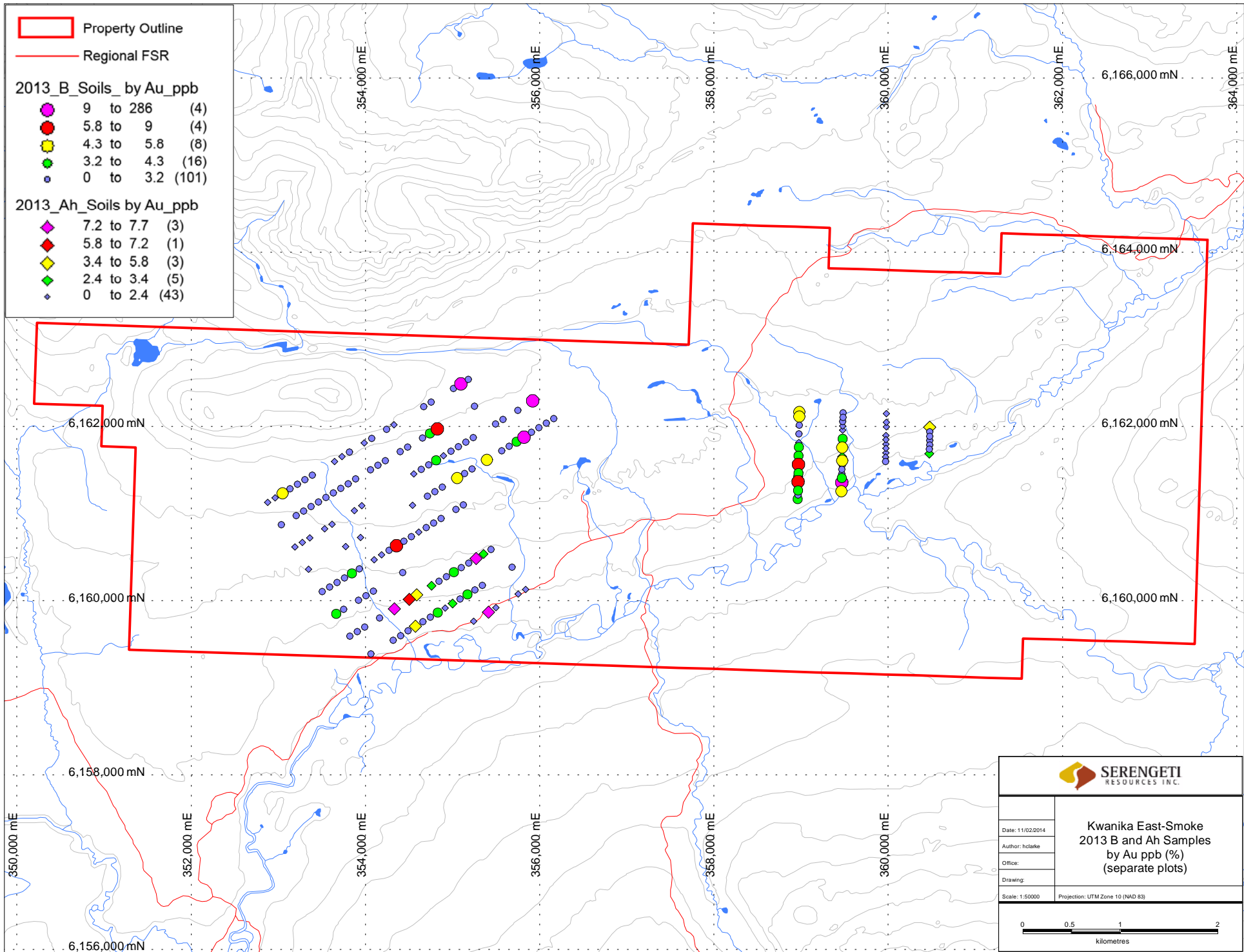
Kwanika East-Smoke 2013 B Soil Horizon By Cu ppm	
Date: 11/02/2014	Author: hclark
Office:	Drawing:
Scale: 1:35000	Projection: UTM Zone 10 (NAD 83)



Appendix D-2 – Ah and B Horizon Soil Plots Combined



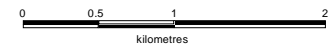
**Kwanika East-Smoke
 2013 B and Ah Samples
 by Cu ppm (%)
 (separate plots)**

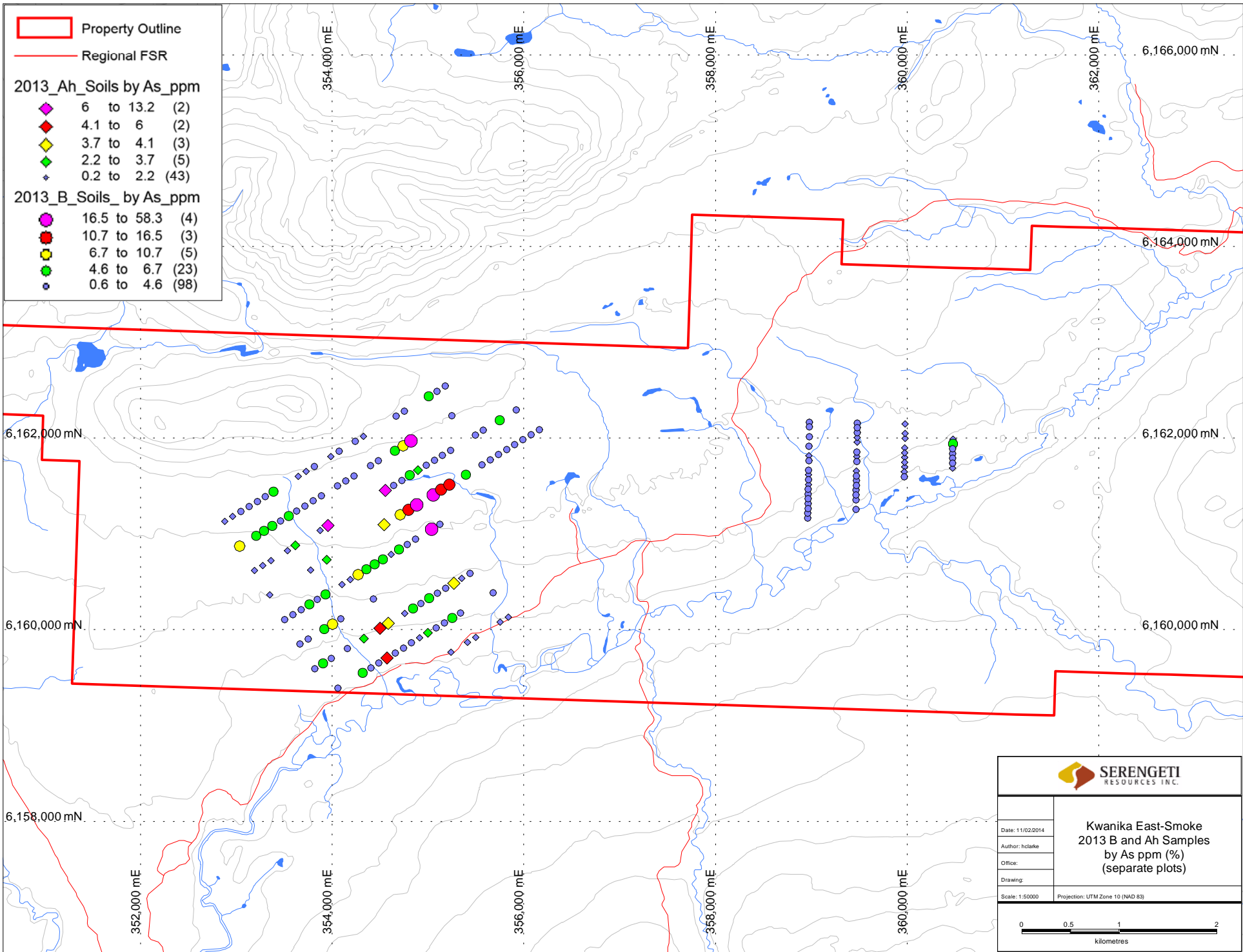


Date: 11/02/2014
 Author: hclake
 Office:
 Drawing:

**Kwanika East-Smoke
 2013 B and Ah Samples
 by Au ppb (%)
 (separate plots)**

Scale: 1:50000 Projection: UTM Zone 10 (NAD 83)

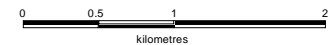




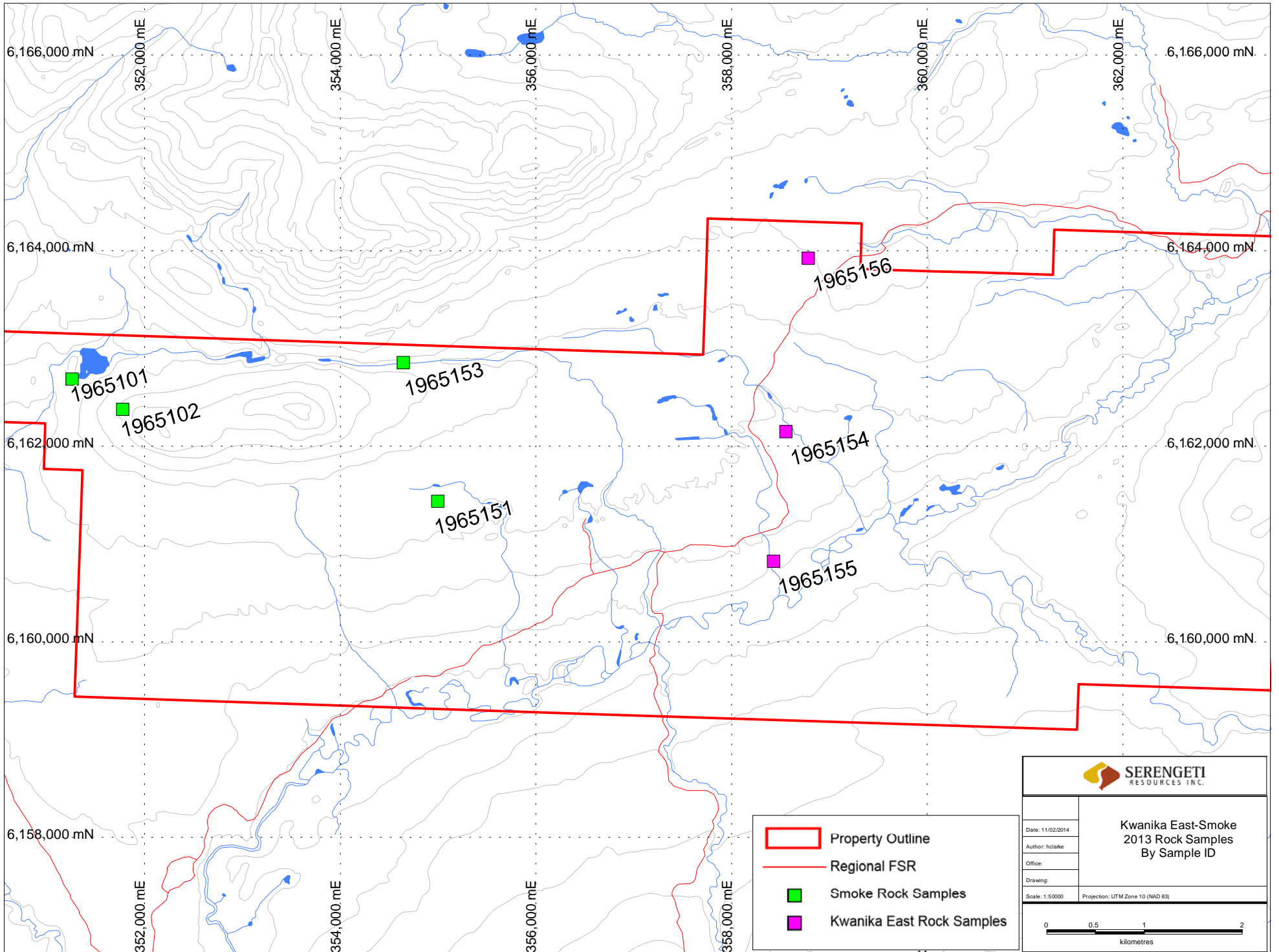
Date: 11/02/2014
 Author: hclake
 Office:
 Drawing:
 Scale: 1:50000

**Kwanika East-Smoke
 2013 B and Ah Samples
 by As ppm (%)
 (separate plots)**

Projection: UTM Zone 10 (NAD 83)



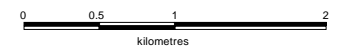
Appendix D-3 – Rock Sample Geochemistry Plots

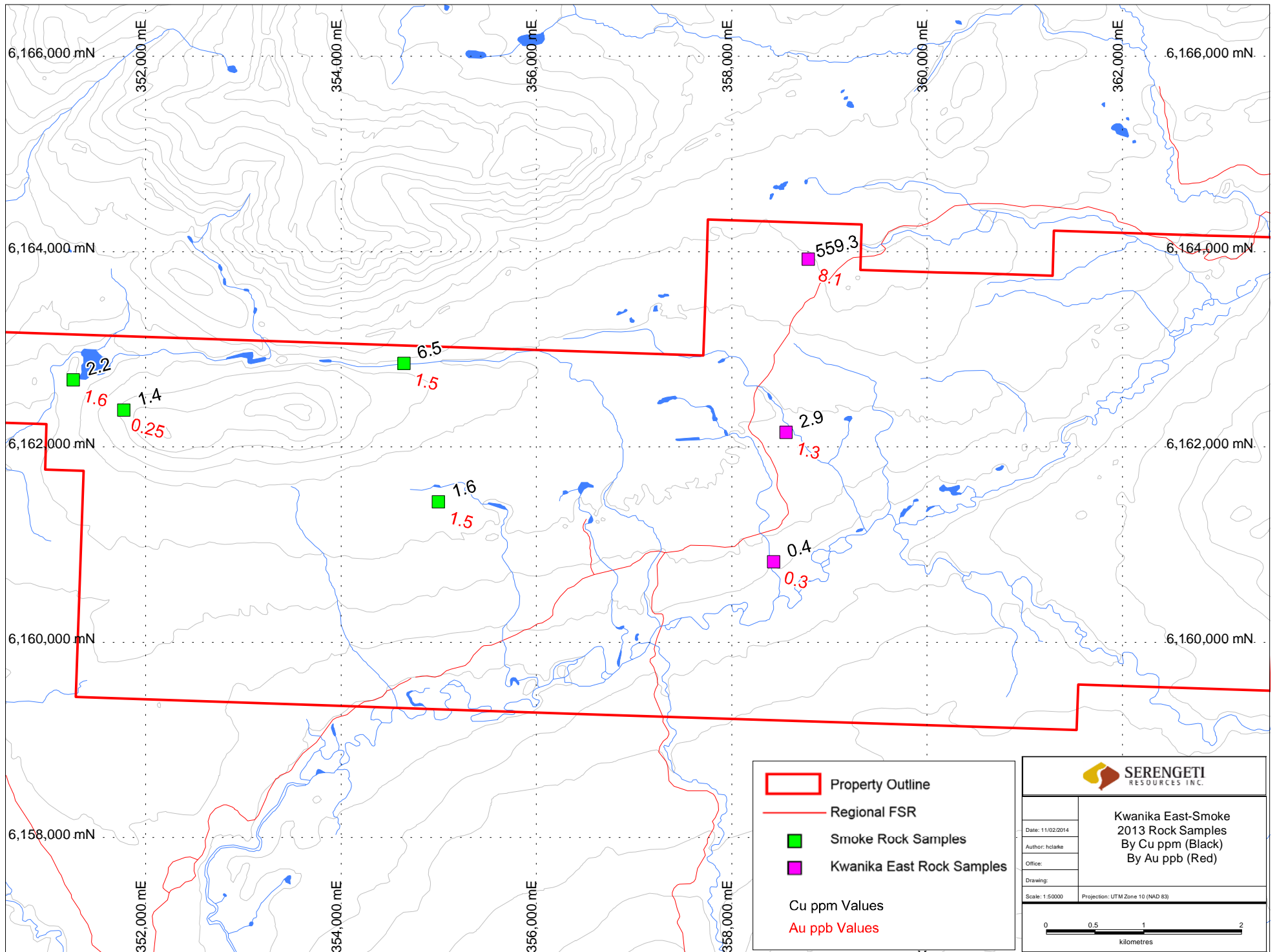


Date: 11/02/2014
 Author: hclake
 Office:
 Drawing:

**Kwanika East-Smoke
 2013 Rock Samples
 By Sample ID**

Scale: 1:50000 Projection: UTM Zone 10 (NAD 83)





**Kwanika East-Smoke
 2013 Rock Samples
 By Cu ppm (Black)
 By Au ppb (Red)**

Date: 11/02/2014

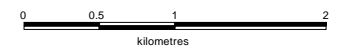
Author: hclake

Office:

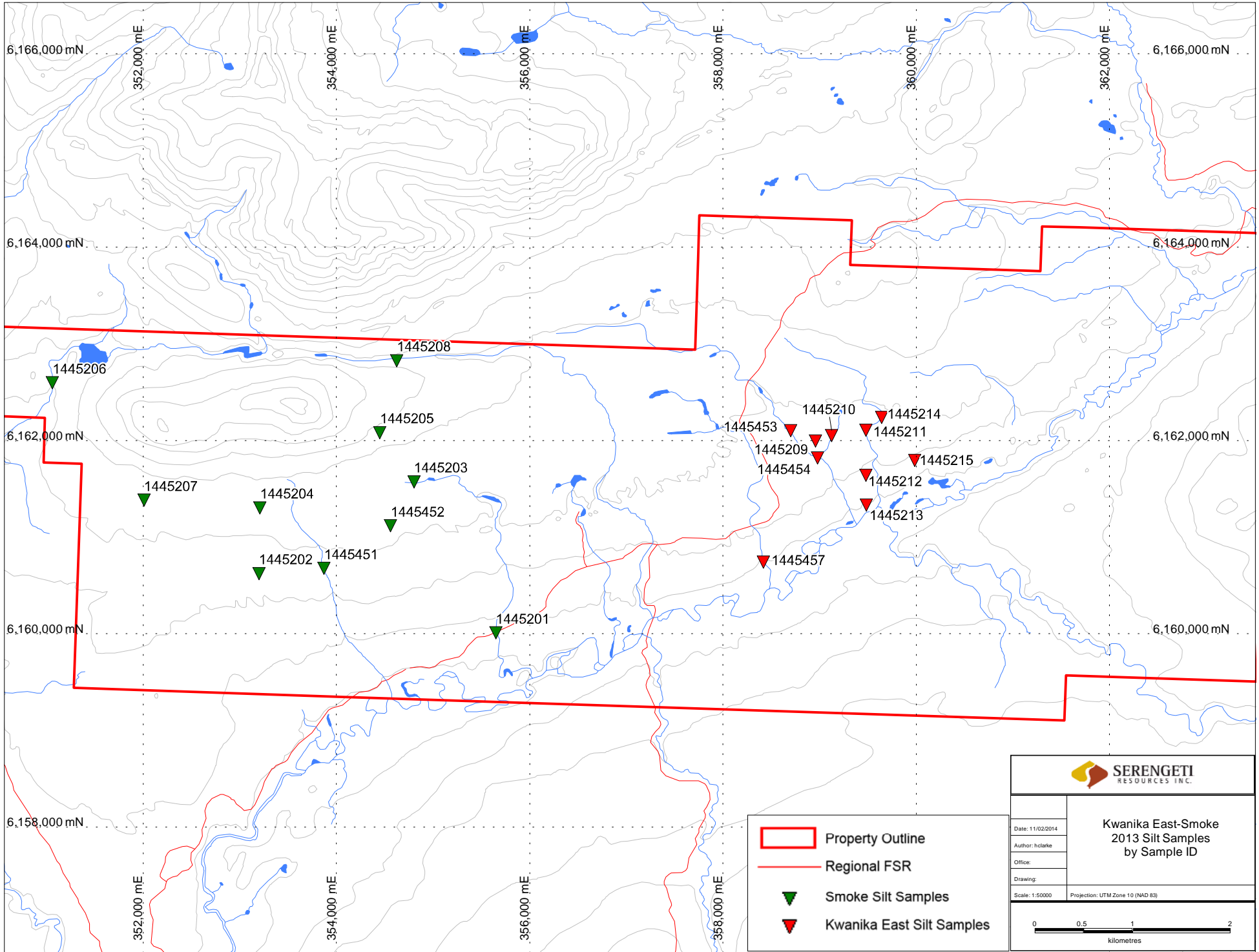
Drawing:

Scale: 1:50000


Projection: UTM Zone 10 (NAD 83)



Appendix D-4 – Silt Sample Geochemistry Plots

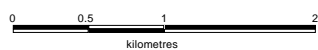


Property Outline
 Regional FSR
▼ Smoke Silt Samples
▼ Kwanika East Silt Samples

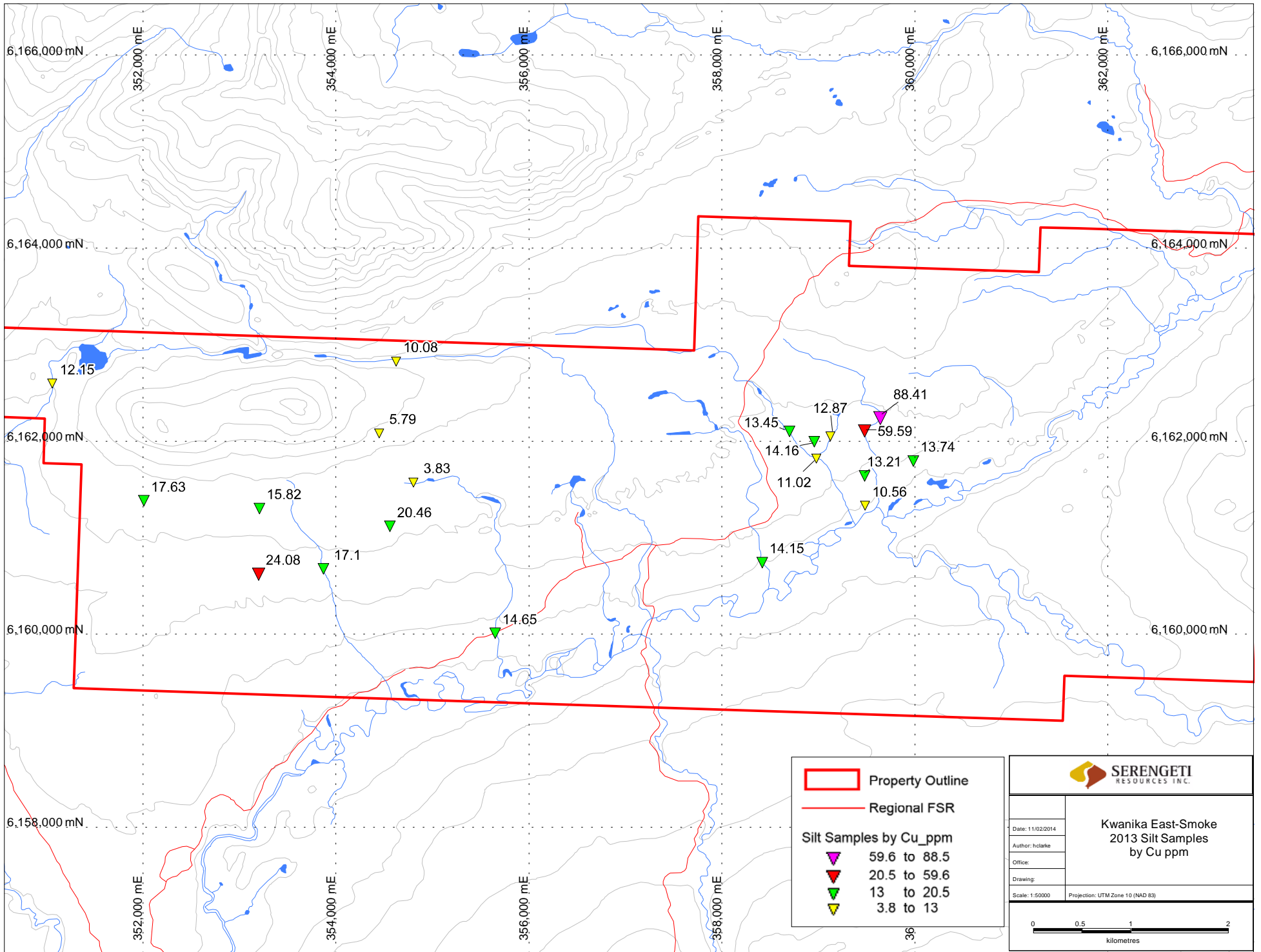
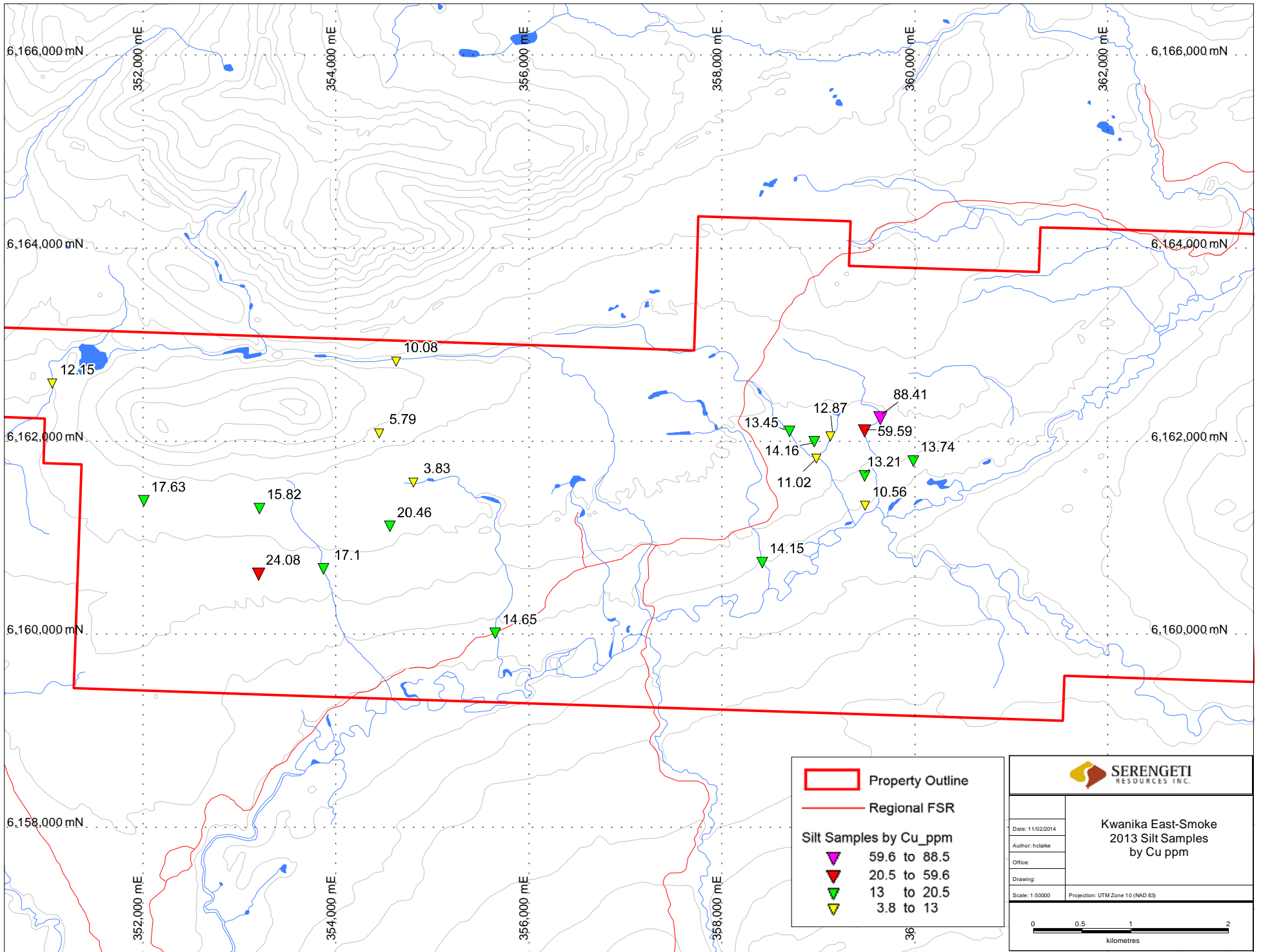


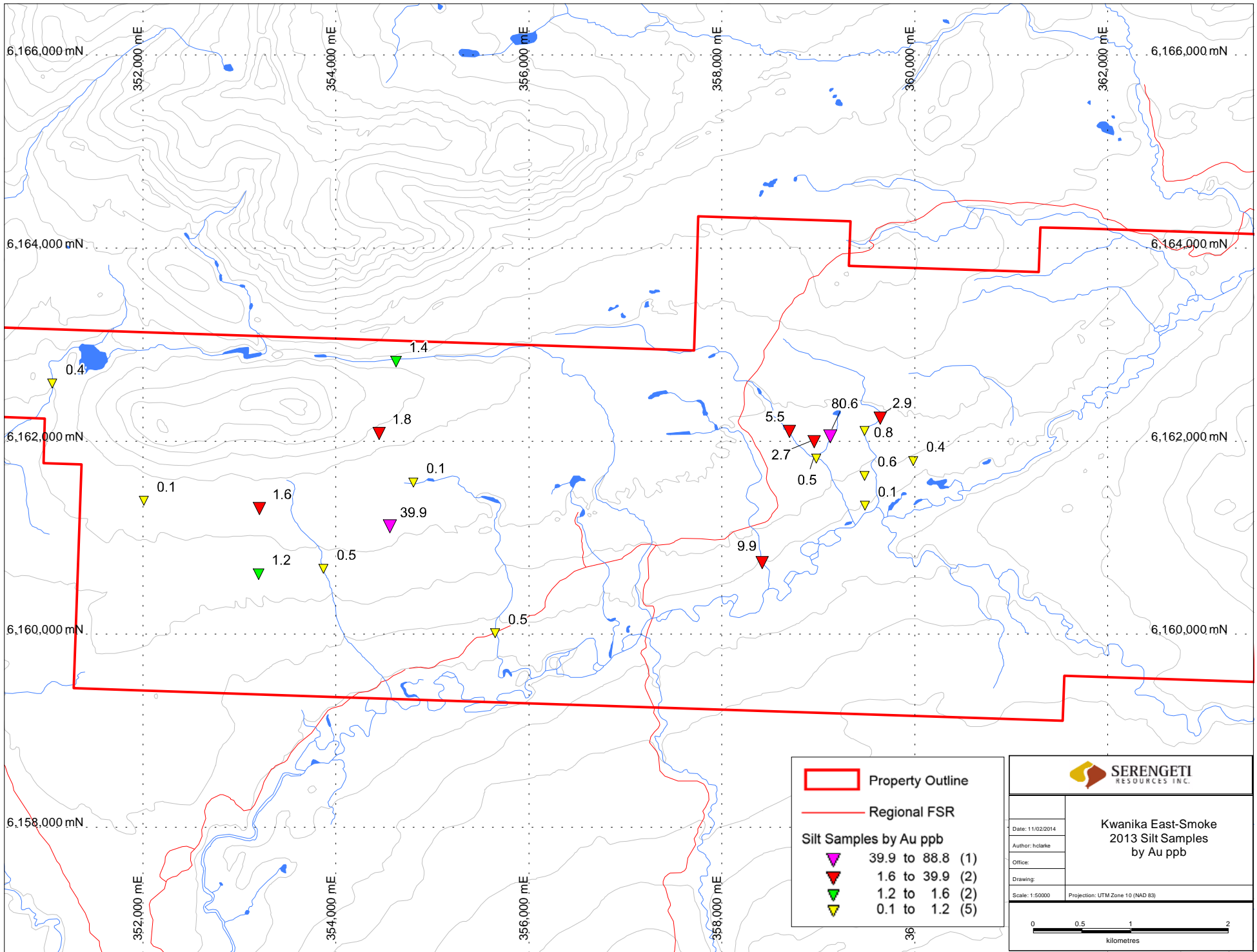
**Kwanika East-Smoke
2013 Silt Samples
by Sample ID**

Date: 11/02/2014	
Author: hclarke	
Office:	
Drawing:	
Scale: 1:50000	Projection: UTM Zone 10 (NAD 83)



0 0.5 1 2
kilometres

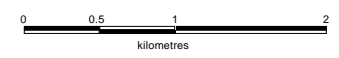




Date: 11/02/2014
 Author: hclarke
 Office:
 Drawing:

**Kwanika East-Smoke
 2013 Silt Samples
 by Au ppb**

Scale: 1:50000 Projection: UTM Zone 10 (NAD 83)



Appendix E – Analytical Certificates



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Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Serengeti Resources**
1700 - 750 W. Pender Street
Vancouver BC V6C 2T8 CANADA

Submitted By: Dave Moore
Receiving Lab: Canada-Smithers
Received: June 28, 2013
Report Date: July 17, 2013
Page: 1 of 3

CERTIFICATE OF ANALYSIS

SMI13000060.1

CLIENT JOB INFORMATION

Project: SMK
Shipment ID: SMK2013-1
P.O. Number
Number of Samples: 56

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.

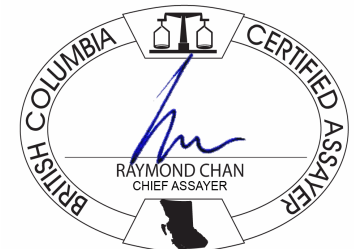
Invoice To: Serengeti Resources
1700 - 750 W. Pender Street
Vancouver BC V6C 2T8
CANADA

CC: Hilary Clarke

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Air Dry	54	Air Dry			SMI
SS80	54	Dry at 60C sieve 100g to -80 mesh			SMI
1F05	36	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
1F04	18	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN

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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 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
 PHONE (604) 253-3158

Client: **Serengeti Resources**
 1700 - 750 W. Pender Street
 Vancouver BC V6C 2T8 CANADA

Project: SMK
 Report Date: July 17, 2013

Page: 2 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI13000060.1

Method Analyte	Unit	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1964301	Soil	2.19	10.11	5.91	68.0	396	6.2	2.8	1550	0.27	0.3	0.2	<0.2	0.2	28.4	1.12	0.16	0.17	6	1.06	0.094
1964302	Soil	3.15	9.46	5.38	98.5	573	8.1	6.2	7462	0.60	1.0	<0.1	7.7	<0.1	22.3	1.73	0.17	0.09	14	0.89	0.111
1964303	Soil	1.80	8.14	6.11	57.9	480	6.4	4.2	1203	0.31	0.2	0.1	0.9	0.1	39.8	0.62	0.13	0.10	7	0.83	0.095
1964304	Soil	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.
1964305	Soil	2.05	15.78	18.93	48.9	228	10.4	4.2	1684	0.82	1.1	0.2	0.8	0.2	21.7	0.44	0.34	0.11	20	0.44	0.058
1964306	Soil	6.09	11.05	6.29	36.2	237	11.4	2.1	750	0.28	0.7	0.3	0.3	0.2	52.5	0.88	0.22	0.07	4	1.51	0.097
1964307	Soil	5.90	10.57	14.31	42.4	237	9.2	3.1	50	0.42	0.6	0.1	<0.2	0.2	38.3	0.51	0.20	0.14	13	0.68	0.066
1964308	Soil	7.81	17.09	1.55	7.4	87	8.3	1.7	687	0.20	1.0	2.8	<0.2	<0.1	214.5	0.81	0.76	0.04	6	4.58	0.102
1964309	Soil	1.37	36.15	2.64	9.7	345	22.7	2.7	214	0.41	0.3	0.8	0.3	<0.1	82.5	0.93	0.53	0.04	8	2.44	0.085
1964310	Soil	1.08	5.97	9.22	57.6	568	6.2	4.8	1562	0.65	0.7	<0.1	<0.2	<0.1	36.8	1.88	0.22	0.08	21	0.68	0.075
1964311	Soil	5.87	79.00	13.77	39.1	1740	44.1	9.5	1854	1.55	2.5	7.7	<0.2	<0.1	93.9	2.10	1.92	0.07	16	1.96	0.224
1964312	Soil	0.49	7.59	5.26	48.5	524	3.3	1.0	489	0.35	0.9	<0.1	<0.2	<0.1	12.1	0.60	0.16	0.03	8	0.41	0.085
1964313	Soil	15.27	36.92	10.11	24.3	833	36.6	11.2	1073	7.14	13.2	100.6	<0.2	3.4	82.3	0.78	0.31	0.19	47	1.15	0.140
1964314	Soil	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.
1964315	Soil	3.20	5.01	6.81	18.4	177	19.1	35.7	2116	10.26	6.0	0.7	<0.2	1.0	31.2	0.23	0.11	0.06	44	0.59	0.094
1964316	Soil	8.40	14.64	10.91	24.2	560	12.6	20.6	2681	1.84	2.2	8.1	<0.2	0.3	114.9	1.55	0.23	0.13	48	1.25	0.082
1964317	Soil	2.03	19.37	12.06	26.7	481	33.3	5.2	56	1.12	1.5	1.1	0.2	0.2	311.3	0.60	0.63	0.09	15	2.79	0.082
1964318	Soil	11.55	11.75	2.17	6.2	119	7.5	0.2	23	0.08	0.3	<0.1	<0.2	<0.1	132.0	1.04	0.10	0.02	<2	2.82	0.064
1964319	Soil	4.28	23.33	9.30	23.1	384	13.7	0.5	25	0.25	0.5	15.7	<0.2	5.0	77.8	1.32	0.10	0.04	4	1.12	0.049
1964320	Soil	6.14	40.00	27.85	35.3	1208	43.0	8.4	2802	1.39	1.6	163.9	<0.2	1.9	182.7	3.27	0.77	0.21	26	2.53	0.101
1964321	Soil	12.31	8.18	11.67	116.5	262	15.3	9.3	>10000	1.62	0.6	0.3	<0.2	0.3	46.5	5.29	0.15	0.11	53	0.80	0.069
1964322	Soil	2.33	11.28	37.75	44.0	296	16.1	12.5	7555	0.87	0.2	9.3	<0.2	<0.1	36.0	0.68	0.20	0.12	24	0.90	0.115
1964323	Soil	8.26	25.74	5.75	16.5	332	26.8	3.4	645	0.65	0.9	3.7	0.5	0.2	345.8	1.16	0.64	0.05	8	1.84	0.099
1964324	Soil	8.09	21.07	9.22	20.5	1012	16.7	4.3	840	1.04	1.3	3.5	0.4	0.3	353.3	0.87	0.57	0.13	17	1.83	0.098
1964325	Soil	23.29	44.97	7.85	18.0	846	34.2	5.3	891	1.19	1.8	19.9	<0.2	0.6	305.9	1.51	1.80	0.35	12	2.59	0.086
1964326	Soil	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.
1964401	Soil	2.24	20.39	5.89	25.5	635	19.4	3.1	1287	0.49	0.7	0.8	1.2	0.2	182.0	1.00	0.60	0.07	7	3.12	0.078
1964402	Soil	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.
1964403	Soil	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.
1964404	Soil	8.35	42.16	3.19	9.0	440	26.4	1.5	352	0.45	1.1	15.7	0.9	0.1	157.5	1.02	1.46	0.18	5	3.24	0.100

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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Project: SMK
 Report Date: July 17, 2013

Page: 2 of 3

Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI13000060.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1964301	Soil	2.6	9.9	0.14	203.4	0.009	6	0.26	0.013	0.06	<0.1	1.0	0.05	0.14	358	0.3	<0.02	0.9	0.30	<0.1	<0.02
1964302	Soil	2.0	21.2	0.14	372.5	0.008	5	0.44	0.010	0.09	<0.1	0.5	0.15	0.10	494	0.5	<0.02	1.3	0.46	<0.1	<0.02
1964303	Soil	3.2	10.3	0.15	304.6	0.011	4	0.34	0.009	0.08	<0.1	1.1	0.04	0.10	238	0.1	<0.02	1.2	0.38	<0.1	<0.02
1964304	Soil	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.
1964305	Soil	5.6	22.4	0.13	433.5	0.020	4	0.44	0.009	0.09	<0.1	2.0	0.05	0.06	255	0.2	0.03	2.0	0.36	<0.1	<0.02
1964306	Soil	3.0	11.3	0.19	225.6	0.005	6	0.20	0.014	0.06	<0.1	1.1	0.03	0.14	189	0.5	<0.02	0.6	0.33	<0.1	<0.02
1964307	Soil	1.7	22.2	0.15	302.5	0.023	2	0.19	0.012	0.05	<0.1	1.9	<0.02	0.10	226	0.3	<0.02	1.0	0.37	<0.1	0.02
1964308	Soil	<0.5	6.2	0.30	405.0	0.001	11	0.07	0.014	0.04	<0.1	0.4	0.06	0.29	144	1.1	<0.02	0.2	0.15	<0.1	<0.02
1964309	Soil	3.7	7.3	0.20	280.5	0.003	3	0.35	0.020	0.02	<0.1	2.3	<0.02	0.22	213	0.4	<0.02	0.3	0.09	<0.1	0.02
1964310	Soil	3.0	19.1	0.12	274.5	0.031	3	0.27	0.012	0.06	<0.1	1.0	0.07	0.07	168	0.3	<0.02	1.5	0.30	<0.1	<0.02
1964311	Soil	32.5	39.8	0.34	484.6	0.007	3	1.42	0.015	0.08	<0.1	4.6	0.14	0.20	503	0.4	<0.02	1.6	0.65	<0.1	<0.02
1964312	Soil	1.4	8.5	0.07	72.6	0.010	1	0.29	0.008	0.07	<0.1	0.7	0.09	0.10	282	0.3	<0.02	0.7	1.03	<0.1	<0.02
1964313	Soil	118.5	56.6	0.22	645.6	0.010	2	0.69	0.011	0.03	0.1	13.6	0.07	0.22	278	0.6	0.04	1.0	0.74	0.2	<0.02
1964314	Soil	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.
1964315	Soil	4.4	48.1	0.15	302.5	0.015	<1	0.24	0.010	0.06	<0.1	3.2	0.03	0.08	183	0.1	<0.02	1.5	0.40	<0.1	<0.02
1964316	Soil	19.3	34.3	0.32	574.3	0.020	1	0.38	0.020	0.05	0.2	2.7	0.06	0.11	150	0.2	<0.02	2.2	0.74	<0.1	<0.02
1964317	Soil	10.5	29.0	0.38	395.9	0.016	4	0.66	0.021	0.04	<0.1	5.8	0.03	0.16	217	0.4	0.02	1.7	0.26	<0.1	<0.02
1964318	Soil	<0.5	3.0	0.19	193.8	0.002	5	0.06	0.014	0.04	<0.1	0.3	<0.02	0.21	131	0.4	<0.02	0.1	0.09	<0.1	<0.02
1964319	Soil	31.4	9.6	0.09	453.2	0.005	3	0.23	0.016	0.03	<0.1	3.3	<0.02	0.12	90	0.3	<0.02	0.9	0.49	<0.1	0.02
1964320	Soil	162.8	51.1	0.45	928.2	0.020	3	1.09	0.019	0.06	0.2	10.8	0.13	0.17	304	0.4	<0.02	2.3	1.45	<0.1	<0.02
1964321	Soil	7.2	56.8	0.12	870.6	0.036	1	0.31	0.014	0.04	0.2	2.2	0.48	0.05	146	0.2	0.03	2.5	1.69	<0.1	<0.02
1964322	Soil	128.3	25.4	0.15	708.9	0.007	1	0.35	0.014	0.07	0.1	0.8	0.19	0.07	271	<0.1	<0.02	1.5	1.57	<0.1	<0.02
1964323	Soil	12.1	11.5	0.20	272.5	0.005	3	0.41	0.019	0.04	<0.1	2.7	0.03	0.23	195	0.4	<0.02	0.7	0.23	<0.1	<0.02
1964324	Soil	14.2	20.4	0.23	397.0	0.008	3	0.63	0.025	0.06	0.2	4.0	0.04	0.20	237	0.3	<0.02	1.4	0.39	<0.1	<0.02
1964325	Soil	16.9	22.7	0.34	775.9	0.008	3	0.76	0.024	0.04	0.3	5.6	0.06	0.17	307	0.4	<0.02	1.2	0.33	<0.1	0.02
1964326	Soil	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.
1964401	Soil	2.0	19.0	0.31	385.2	0.012	6	0.30	0.014	0.05	<0.1	3.1	0.04	0.15	313	0.4	<0.02	0.7	0.45	<0.1	<0.02
1964402	Soil	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.
1964403	Soil	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.
1964404	Soil	3.2	10.2	0.27	382.5	0.004	5	0.34	0.013	0.02	<0.1	1.3	0.05	0.24	225	0.4	<0.02	0.5	0.14	0.2	0.02

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Project: SMK
 Report Date: July 17, 2013

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Part: 3 of 1

CERTIFICATE OF ANALYSIS

SMI13000060.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F	1F	1F	1F	1F	1F	1F
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1
1964301	Soil	0.16	3.4	0.2	<0.05	0.3	1.22	4.8	<0.02	2	<0.1	0.7	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964302	Soil	0.14	8.0	0.1	<0.05	<0.1	0.65	3.9	<0.02	<1	<0.1	0.7	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964303	Soil	0.16	6.2	0.1	<0.05	0.1	1.05	5.3	<0.02	<1	<0.1	0.9	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964304	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	2.76	18.65	5.16	19.4	219	12.9	2.4
1964305	Soil	0.28	4.8	0.2	<0.05	0.2	2.39	11.3	<0.02	<1	0.1	1.5	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964306	Soil	0.10	3.0	1.2	<0.05	0.5	2.85	3.7	<0.02	<1	0.1	0.8	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964307	Soil	0.23	4.7	0.2	<0.05	0.5	0.60	3.3	<0.02	<1	<0.1	0.3	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964308	Soil	0.04	2.1	0.3	<0.05	0.4	0.39	0.4	<0.02	9	<0.1	0.2	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964309	Soil	0.06	1.4	<0.1	<0.05	0.6	4.81	5.6	<0.02	<1	<0.1	0.1	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964310	Soil	0.18	3.2	0.2	<0.05	<0.1	0.81	6.0	<0.02	<1	<0.1	0.4	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964311	Soil	0.20	6.2	<0.1	<0.05	0.3	30.54	66.5	<0.02	<1	0.8	2.0	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964312	Soil	0.10	5.9	0.1	<0.05	<0.1	0.36	2.5	<0.02	<1	<0.1	0.4	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964313	Soil	0.47	4.0	<0.1	<0.05	0.2	64.44	86.8	<0.02	3	0.9	1.5	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964314	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	1.23	16.04	9.67	23.1	959	19.1	7.3
1964315	Soil	0.25	4.2	0.1	<0.05	<0.1	2.53	15.0	<0.02	2	<0.1	0.3	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964316	Soil	0.39	12.2	0.2	<0.05	<0.1	8.36	24.8	<0.02	<1	0.4	1.8	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964317	Soil	0.39	2.9	0.4	<0.05	0.8	9.64	16.6	<0.02	<1	0.2	1.4	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964318	Soil	0.05	2.0	0.1	<0.05	0.3	0.29	0.5	<0.02	<1	<0.1	0.1	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964319	Soil	0.33	3.4	0.1	<0.05	0.6	11.47	17.3	<0.02	<1	0.6	0.4	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964320	Soil	0.58	5.6	0.2	<0.05	0.4	79.56	58.7	<0.02	2	1.8	4.2	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964321	Soil	0.25	6.7	0.2	<0.05	<0.1	1.59	9.7	<0.02	<1	0.1	0.7	<10	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964322	Soil	0.15	8.4	0.3	<0.05	<0.1	21.45	178.1	<0.02	<1	1.0	0.8	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964323	Soil	0.08	2.7	0.2	<0.05	0.6	12.79	19.0	<0.02	2	0.4	0.6	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964324	Soil	0.21	4.0	0.2	<0.05	0.4	12.09	21.2	<0.02	<1	0.4	1.5	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964325	Soil	0.18	2.9	0.3	<0.05	0.8	20.80	24.7	<0.02	4	0.7	0.7	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964326	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	19.93	69.74	22.76	31.1	1541	33.9	7.6
1964401	Soil	0.19	4.1	<0.1	<0.05	0.7	2.71	2.9	<0.02	<1	0.2	0.5	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964402	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	1.98	14.45	17.24	56.6	802	9.7	4.5
1964403	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	2.07	11.84	11.56	33.7	681	11.6	7.2
1964404	Soil	0.11	2.0	<0.1	<0.05	0.8	4.11	4.2	<0.02	<1	0.1	0.5	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Project: SMK
 Report Date: July 17, 2013

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CERTIFICATE OF ANALYSIS

SMI13000060.1

Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
Unit		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	
MDL		1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01
1964301	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964302	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964303	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964304	Soil	1539	0.23	0.4	0.8	0.2	0.1	93.5	1.01	0.49	0.94	7	2.85	0.078	2.7	9.5	0.22	356.6	0.004	<20	0.18
1964305	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964306	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964307	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964308	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964309	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964310	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964311	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964312	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964313	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964314	Soil	344	0.61	0.7	3.2	3.6	<0.1	65.2	0.87	0.45	0.10	7	0.94	0.131	12.5	19.0	0.21	266.4	0.004	<20	0.42
1964315	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964316	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964317	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964318	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964319	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964320	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964321	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964322	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964323	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964324	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964325	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964326	Soil	2005	2.12	5.1	67.1	3.2	0.7	270.7	1.67	5.87	1.34	25	2.51	0.125	47.5	42.5	0.42	701.0	0.007	<20	1.28
1964401	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964402	Soil	1231	0.29	0.7	0.3	<0.2	<0.1	51.2	0.73	0.18	0.22	7	0.77	0.141	2.5	13.9	0.11	486.6	0.005	<20	0.28
1964403	Soil	303	0.54	0.5	0.3	3.7	<0.1	62.4	0.52	0.22	0.16	10	0.75	0.109	3.8	17.9	0.14	262.7	0.006	<20	0.39
1964404	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Project: SMK
 Report Date: July 17, 2013

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Part: 5 of 1

CERTIFICATE OF ANALYSIS

SMI13000060.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
Unit	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	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	0.02	0.1	0.02	0.05	0.1	0.01	0.1	
1964301	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964302	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964303	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964304	Soil	0.014	0.05	<0.1	0.7	0.05	0.16	200	0.2	0.03	0.4	0.16	<0.1	<0.02	0.08	1.9	1.2	<0.05	0.4	2.20	3.3
1964305	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964306	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964307	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964308	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964309	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964310	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964311	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964312	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964313	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964314	Soil	0.016	0.10	<0.1	1.0	0.06	0.14	303	<0.1	<0.02	1.1	0.32	<0.1	<0.02	0.23	3.6	1.1	<0.05	<0.1	5.27	23.8
1964315	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964316	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964317	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964318	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964319	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964320	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964321	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964322	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964323	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964324	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964325	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964326	Soil	0.016	0.06	1.0	5.4	0.12	0.17	524	0.1	0.09	2.1	0.53	<0.1	<0.02	0.28	5.0	0.1	<0.05	0.5	49.42	65.6
1964401	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964402	Soil	0.010	0.08	<0.1	0.6	0.07	0.10	275	<0.1	0.04	0.7	0.58	<0.1	<0.02	0.07	4.6	0.5	<0.05	0.1	1.20	4.5
1964403	Soil	0.013	0.07	<0.1	0.8	0.04	0.11	296	0.2	<0.02	1.3	0.41	<0.1	<0.02	0.10	4.0	0.3	<0.05	<0.1	2.14	6.6
1964404	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	

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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Project: SMK
 Report Date: July 17, 2013

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CERTIFICATE OF ANALYSIS

SMI13000060.1

Method	Analyte	1F	1F	1F	1F	1F	1F
		In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	1	0.1	0.1	10	2
1964301	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964302	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964303	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964304	Soil	<0.02	<1	0.1	0.6	<10	<2
1964305	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964306	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964307	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964308	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964309	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964310	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964311	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964312	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964313	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964314	Soil	<0.02	<1	0.2	0.7	<10	<2
1964315	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964316	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964317	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964318	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964319	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964320	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964321	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964322	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964323	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964324	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964325	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964326	Soil	0.03	2	1.3	2.7	<10	<2
1964401	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964402	Soil	<0.02	<1	0.2	0.4	<10	<2
1964403	Soil	<0.02	<1	0.2	0.5	<10	<2
1964404	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: SMK
 Report Date: July 17, 2013

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CERTIFICATE OF ANALYSIS

SMI13000060.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		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
1964405	Soil	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.
1964406	Soil	4.11	67.86	10.01	34.7	1837	37.0	7.2	444	2.16	2.9	23.5	1.0	0.3	303.0	0.79	1.69	0.21	34	2.30	0.151
1964407	Soil	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.
1964408	Soil	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.
1964409	Soil	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.
1964410	Soil	3.07	70.17	19.18	45.8	976	50.5	6.8	3189	2.19	4.0	63.7	<0.2	1.7	149.8	2.44	1.59	0.17	20	2.15	0.206
1964427	Soil	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.
1964429	Soil	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.
1964022	Soil	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.
1964024	Soil	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.
1964025	Soil	6.96	55.34	10.95	29.9	606	32.4	5.6	489	1.50	2.6	26.5	7.2	0.5	134.2	1.32	1.49	0.43	23	1.83	0.103
1964026	Soil	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.
1964027	Soil	11.18	83.21	12.33	49.7	927	43.9	13.0	830	2.89	5.2	13.9	5.8	0.4	91.7	1.06	1.58	0.59	53	1.31	0.137
1964028	Soil	1.97	71.58	10.32	21.9	1247	61.3	6.2	446	1.24	3.9	2.0	4.9	0.3	90.8	1.09	0.73	0.30	25	2.30	0.063
1964029	Soil	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.
1964030	Soil	7.06	21.04	2.54	7.2	524	16.1	2.2	322	0.44	1.4	4.0	2.4	0.3	129.5	1.26	0.69	0.11	4	2.72	0.081
1964036	Soil	7.85	62.83	8.32	28.2	1091	44.4	5.7	760	1.92	3.7	16.6	7.7	0.6	148.5	0.95	3.02	0.16	22	2.78	0.170
1964037	Soil	2.84	14.45	17.22	34.9	276	15.9	6.4	297	1.31	1.6	0.2	3.2	<0.1	81.0	0.40	0.19	0.17	31	0.81	0.118
1964039	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1964040	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1964041	Soil	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.
1964042	Soil	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.
1964043	Soil	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.
1964350	Soil	9.73	71.03	11.21	40.4	722	68.3	7.9	1011	2.10	4.1	6.8	5.5	0.3	152.7	2.20	1.24	0.20	36	2.61	0.157
1964469	Soil	8.78	6.25	5.70	31.3	199	13.4	1.3	159	0.21	0.7	0.3	1.0	0.1	52.5	0.64	0.23	0.05	5	0.80	0.092
1964470	Soil	9.38	51.78	7.36	19.6	1009	41.6	3.9	667	1.20	2.2	68.9	2.4	0.9	174.5	0.71	0.98	0.19	22	2.52	0.089



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CERTIFICATE OF ANALYSIS

SMI13000060.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1964405	Soil	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.	
1964406	Soil	30.8	56.6	0.47	750.9	0.012	3	1.54	0.023	0.10	0.1	9.5	0.12	0.20	390	0.6	<0.02	3.1	0.66	<0.1	<0.02	
1964407	Soil	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.	
1964408	Soil	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.	
1964409	Soil	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.	
1964410	Soil	169.7	44.5	0.44	1029	0.009	3	1.04	0.013	0.07	0.2	7.9	0.13	0.18	499	1.1	<0.02	2.2	1.17	<0.1	0.02	
1964427	Soil	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.	
1964429	Soil	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.	
1964022	Soil	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.	
1964024	Soil	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.	
1964025	Soil	21.1	34.8	0.35	494.9	0.010	5	1.01	0.010	0.07	0.2	6.0	0.09	0.14	264	0.4	<0.02	2.7	0.74	<0.1	0.03	
1964026	Soil	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.	
1964027	Soil	20.4	85.1	0.59	500.3	0.015	4	1.77	0.006	0.10	0.2	7.5	0.19	0.11	323	0.6	<0.02	5.2	1.73	<0.1	<0.02	
1964028	Soil	6.8	36.1	0.40	516.0	0.015	5	0.68	0.012	0.07	0.1	3.7	0.15	0.11	322	0.6	0.03	1.9	0.44	<0.1	0.02	
1964029	Soil	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.	
1964030	Soil	3.9	11.3	0.27	363.9	0.004	4	0.27	0.011	0.02	<0.1	1.9	0.06	0.19	206	0.6	<0.02	0.4	0.21	<0.1	0.02	
1964036	Soil	20.5	52.4	0.46	407.0	0.010	5	1.18	0.013	0.07	0.2	5.9	0.11	0.18	408	0.9	<0.02	2.5	0.60	<0.1	0.09	
1964037	Soil	5.4	41.4	0.18	1047	0.008	3	0.84	0.024	0.08	0.2	0.7	0.06	0.07	182	0.3	<0.02	2.8	0.64	<0.1	<0.02	
1964039	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1964040	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1964041	Soil	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.	
1964042	Soil	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.	
1964043	Soil	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.	
1964350	Soil	16.3	55.2	0.52	424.2	0.011	4	1.35	0.009	0.08	0.1	3.8	0.12	0.13	330	1.1	<0.02	3.6	1.46	<0.1	<0.02	
1964469	Soil	3.4	6.2	0.06	177.5	0.005	3	0.14	0.011	0.07	0.1	1.3	0.03	0.19	199	0.2	<0.02	0.5	0.33	<0.1	<0.02	
1964470	Soil	73.9	32.5	0.35	325.7	0.011	3	0.73	0.011	0.06	0.4	5.7	0.08	0.16	295	0.3	<0.02	1.8	0.58	0.1	<0.02	



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Project: SMK
 Report Date: July 17, 2013

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CERTIFICATE OF ANALYSIS

SMI13000060.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F	1F	1F	1F	1F	1F	1F	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1964405	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	2.77	24.01	5.53	10.5	580	17.6	1.7	
1964406	Soil	0.43	7.1	0.2	<0.05	0.6	26.85	35.8	<0.02	3	1.0	4.0	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964407	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	2.84	58.51	21.64	59.8	527	42.7	14.9	
1964408	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	1.69	54.86	22.44	50.7	1383	51.1	10.9	
1964409	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	2.14	18.06	11.57	45.8	1445	16.1	4.4	
1964410	Soil	0.34	11.3	0.3	<0.05	0.3	74.55	91.2	<0.02	<1	1.2	3.1	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964427	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	3.10	8.58	4.40	44.4	448	6.6	2.5	
1964429	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	9.20	54.21	18.35	35.1	189	38.1	12.7	
1964022	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	3.70	10.55	9.52	56.3	187	7.6	3.0	
1964024	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	1.39	49.61	11.89	35.2	678	44.6	10.2	
1964025	Soil	0.27	6.5	0.4	<0.05	0.9	25.63	24.7	0.06	<1	1.2	2.6	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964026	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	8.04	27.73	9.05	19.5	204	25.9	6.9	
1964027	Soil	0.62	14.1	0.3	<0.05	0.4	19.42	33.3	0.03	<1	1.1	7.3	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964028	Soil	0.46	8.2	0.2	<0.05	0.8	12.56	8.6	<0.02	<1	0.5	3.3	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964029	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	20.17	12.05	3.64	7.8	314	12.1	0.7	
1964030	Soil	0.10	1.9	0.1	<0.05	1.2	5.17	7.2	<0.02	<1	0.2	0.3	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964036	Soil	0.43	5.7	0.1	<0.05	2.1	27.65	24.9	0.02	2	0.9	2.8	11	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964037	Soil	0.26	5.8	0.2	<0.05	<0.1	1.68	9.7	0.02	<1	0.3	1.0	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964039	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1964040	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1964041	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	14.44	8.40	4.04	18.5	121	6.1	2.1	
1964042	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	3.22	52.41	9.13	26.6	635	43.9	5.4	
1964043	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	3.94	81.90	6.56	22.2	828	74.4	5.4	
1964350	Soil	0.48	9.6	0.2	<0.05	0.8	17.35	23.0	0.03	<1	0.7	5.6	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964469	Soil	0.08	2.1	0.1	<0.05	0.4	2.80	4.5	<0.02	<1	<0.1	0.5	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964470	Soil	0.27	4.3	<0.1	<0.05	1.1	38.98	16.5	<0.02	<1	0.6	3.3	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	



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CERTIFICATE OF ANALYSIS

SMI13000060.1

Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al		
		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	ppm	%
		MDL	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	
1964405	Soil	17	0.31	0.6	2.5	0.4	0.3	283.2	0.09	0.32	0.21	4	1.14	0.068	7.2	5.7	0.09	589.4	0.007	<20	0.17		
1964406	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964407	Soil	1246	2.39	4.0	17.4	1.8	0.4	140.5	0.92	1.12	0.25	47	1.83	0.112	27.2	64.9	0.74	617.8	0.015	<20	1.36		
1964408	Soil	250	2.45	2.5	3.1	3.3	0.4	57.7	0.85	0.71	0.49	48	1.10	0.124	27.7	73.3	0.62	668.1	0.018	<20	1.78		
1964409	Soil	147	0.63	0.9	1.3	2.7	<0.1	51.3	0.80	0.33	0.13	17	0.93	0.122	16.1	18.5	0.17	410.0	0.007	<20	0.44		
1964410	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964427	Soil	32	0.17	0.5	0.1	2.3	<0.1	78.6	1.01	0.13	0.05	4	0.97	0.084	1.4	7.8	0.10	362.0	0.007	<20	0.15		
1964429	Soil	1052	2.04	2.9	9.0	1.2	0.2	106.3	0.60	0.47	0.15	48	1.79	0.086	5.0	84.2	0.52	390.3	0.018	<20	0.77		
1964022	Soil	253	0.33	0.5	0.1	2.6	0.1	67.3	0.83	0.21	0.12	8	1.10	0.091	1.4	14.8	0.21	169.1	0.010	<20	0.22		
1964024	Soil	575	1.43	2.9	4.9	0.4	<0.1	172.1	1.16	1.44	0.13	24	2.32	0.109	18.0	28.8	0.36	301.1	0.009	<20	1.12		
1964025	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964026	Soil	239	0.52	1.0	5.1	<0.2	0.2	180.8	1.24	0.68	0.18	10	1.63	0.089	13.3	13.3	0.31	218.6	0.007	<20	0.34		
1964027	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964028	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964029	Soil	31	0.11	0.2	0.3	1.0	<0.1	69.2	0.84	0.16	0.03	2	1.68	0.076	2.1	5.1	0.20	119.3	0.002	<20	0.07		
1964030	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964036	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964037	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964039	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1964040	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1964041	Soil	46	0.25	0.4	<0.1	0.9	<0.1	45.3	1.97	0.11	0.04	8	0.97	0.058	0.6	10.6	0.15	108.4	0.008	<20	0.11		
1964042	Soil	681	1.52	3.2	4.3	2.2	0.3	112.4	1.66	1.94	0.14	22	2.59	0.101	23.3	39.9	0.44	378.4	0.007	<20	1.09		
1964043	Soil	828	1.30	2.8	6.1	3.8	0.4	116.7	1.76	1.92	0.16	19	2.43	0.115	28.0	40.2	0.41	513.4	0.008	<20	1.06		
1964350	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964469	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964470	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	



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CERTIFICATE OF ANALYSIS

SMI13000060.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
Unit	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	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	0.02	0.1	0.01	0.05	0.1	0.01	0.1	
1964405	Soil	0.010	0.03	<0.1	3.6	<0.02	0.13	214	0.4	<0.02	0.5	0.22	<0.1	<0.02	0.08	1.3	0.1	<0.05	0.4	2.89	7.8
1964406	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964407	Soil	0.013	0.11	0.1	4.7	0.08	0.15	285	0.3	0.04	4.3	0.64	<0.1	<0.02	0.53	8.3	0.2	<0.05	0.4	16.61	34.1
1964408	Soil	0.013	0.13	0.5	6.4	0.10	0.09	256	0.1	<0.02	5.3	0.64	<0.1	<0.02	0.68	8.7	0.5	<0.05	0.6	14.19	43.8
1964409	Soil	0.010	0.09	0.1	0.8	0.04	0.12	258	0.2	<0.02	1.4	0.29	<0.1	<0.02	0.25	2.7	0.2	<0.05	0.1	5.38	16.6
1964410	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964427	Soil	0.021	0.08	<0.1	0.8	<0.02	0.17	342	0.2	<0.02	0.5	0.16	<0.1	<0.02	0.12	2.8	0.1	<0.05	0.5	0.48	2.2
1964429	Soil	0.016	0.04	<0.1	3.3	0.08	0.10	196	0.4	<0.02	2.3	2.00	<0.1	<0.02	0.24	10.7	0.8	<0.05	0.4	5.81	7.5
1964022	Soil	0.010	0.08	<0.1	0.9	0.03	0.11	178	0.2	<0.02	0.9	0.27	<0.1	<0.02	0.13	2.2	0.2	<0.05	0.3	0.61	2.7
1964024	Soil	0.014	0.07	<0.1	2.1	0.04	0.17	285	0.2	<0.02	2.5	0.24	<0.1	<0.02	0.28	3.0	0.2	<0.05	0.5	21.22	27.4
1964025	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964026	Soil	0.012	0.07	0.1	2.1	0.02	0.21	181	<0.1	<0.02	0.7	0.19	0.1	0.02	0.10	2.4	<0.1	<0.05	0.7	14.04	20.0
1964027	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964028	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964029	Soil	0.012	0.06	<0.1	0.4	<0.02	0.17	280	0.2	<0.02	0.2	0.10	<0.1	<0.02	0.04	1.3	<0.1	<0.05	0.4	2.35	2.1
1964030	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964036	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964037	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964039	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1964040	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1964041	Soil	0.010	0.03	<0.1	0.9	<0.02	0.13	152	<0.1	<0.02	0.5	0.13	<0.1	<0.02	0.10	1.4	<0.1	<0.05	0.4	0.30	1.2
1964042	Soil	0.014	0.06	0.2	4.9	0.07	0.15	312	0.2	<0.02	2.2	0.42	<0.1	0.03	0.38	4.5	0.2	<0.05	1.1	24.86	30.9
1964043	Soil	0.009	0.05	0.2	5.7	0.10	0.22	447	0.2	<0.02	1.9	0.33	<0.1	0.05	0.30	4.2	0.2	<0.05	1.6	42.82	39.3
1964350	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964469	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964470	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: SMK
Report Date: July 17, 2013

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1F	1F	1F	1F	1F	1F
		In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	1	0.1	0.1	10	2
1964405	Soil	<0.02	3	<0.1	0.2	<10	2
1964406	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964407	Soil	0.02	<1	0.7	5.4	<10	<2
1964408	Soil	0.02	<1	0.7	6.2	<10	<2
1964409	Soil	<0.02	<1	0.2	0.9	<10	<2
1964410	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964427	Soil	<0.02	<1	<0.1	0.2	<10	<2
1964429	Soil	0.02	3	0.3	5.0	<10	3
1964022	Soil	<0.02	<1	<0.1	0.8	<10	<2
1964024	Soil	<0.02	<1	0.7	3.1	<10	3
1964025	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964026	Soil	<0.02	<1	0.4	1.1	<10	4
1964027	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964028	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964029	Soil	<0.02	<1	<0.1	0.2	<10	<2
1964030	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964036	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964037	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964039	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1964040	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1964041	Soil	<0.02	<1	<0.1	0.4	<10	<2
1964042	Soil	<0.02	<1	0.7	3.1	<10	2
1964043	Soil	<0.02	<1	0.8	2.8	<10	2
1964350	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964469	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964470	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

QUALITY CONTROL REPORT

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Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
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																					
1964321	Soil	12.31	8.18	11.67	116.5	262	15.3	9.3	>10000	1.62	0.6	0.3	<0.2	0.3	46.5	5.29	0.15	0.11	53	0.80	0.069
REP 1964321	QC	12.88	8.44	12.32	125.8	278	16.1	9.9	>10000	1.58	0.8	0.2	<0.2	0.2	49.2	5.50	0.17	0.11	51	0.82	0.066
1964429	Soil	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.
REP 1964429	QC																				
Reference Materials																					
STD DS11	Standard	14.75	138.9	139.5	330.6	1840	78.8	13.4	1014	3.08	41.6	2.3	73.6	7.1	67.8	2.36	7.41	10.72	49	1.04	0.076
STD DS11	Standard	14.11	146.2	132.6	321.9	1797	77.3	13.0	997	2.98	40.0	2.6	108.3	7.3	58.5	2.24	8.02	10.08	47	1.00	0.061
STD DS9	Standard	13.61	100.8	120.3	316.0	1895	39.6	7.2	588	2.35	25.7	2.7	126.9	6.4	74.0	2.40	5.11	6.52	40	0.73	0.083
STD DS9	Standard																				
STD DS9	Standard	13.25	108.8	122.0	316.6	1867	38.5	7.0	582	2.32	25.1	2.9	114.6	6.2	70.4	2.42	5.57	5.88	40	0.72	0.075
STD DS9	Standard																				
STD OREAS45EA	Standard																				
STD OREAS45EA	Standard																				
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
STD OREAS45EA Expected																					
BLK	Blank	<0.01	0.04	0.04	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	0.02	0.03	<0.02	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.01	0.5	<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																				



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Project: SMK
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QUALITY CONTROL REPORT

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Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
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																					
1964321	Soil	7.2	56.8	0.12	870.6	0.036	1	0.31	0.014	0.04	0.2	2.2	0.48	0.05	146	0.2	0.03	2.5	1.69	<0.1	<0.02
REP 1964321	QC	7.4	57.7	0.13	892.2	0.035	<1	0.30	0.014	0.04	0.2	2.1	0.47	0.05	185	<0.1	<0.02	2.6	1.74	<0.1	<0.02
1964429	Soil	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.
REP 1964429	QC																				
Reference Materials																					
STD DS11	Standard	17.9	59.4	0.85	360.4	0.094	8	1.20	0.072	0.40	3.0	3.2	4.86	0.27	289	2.2	4.93	5.0	2.76	<0.1	0.07
STD DS11	Standard	17.6	56.6	0.83	372.9	0.085	8	1.08	0.064	0.38	3.2	3.0	4.67	0.27	286	2.0	4.74	4.6	2.97	<0.1	0.05
STD DS9	Standard	14.4	124.3	0.63	298.8	0.115	3	1.02	0.100	0.41	2.9	2.8	5.53	0.16	239	5.7	5.27	4.8	2.36	<0.1	0.09
STD DS9	Standard																				
STD DS9	Standard	13.9	121.0	0.63	306.9	0.111	3	0.95	0.082	0.39	3.3	2.5	5.43	0.16	206	5.3	5.08	4.6	2.47	<0.1	0.07
STD DS9	Standard																				
STD OREAS45EA	Standard																				
STD OREAS45EA	Standard																				
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
STD OREAS45EA Expected																					
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																				
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																				

QUALITY CONTROL REPORT

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Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt	1F Mo	1F Cu	1F Pb	1F Zn	1F Ag	1F Ni	1F Co
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
Pulp Duplicates																							
1964321	Soil			0.25	6.7	0.2	<0.05	<0.1	1.59	9.7	<0.02	<1	0.1	0.7	<10	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 1964321	QC			0.29	7.3	0.2	<0.05	<0.1	1.55	9.2	<0.02	<1	0.1	0.6	<10	3							
1964429	Soil			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.	9.20	54.21	18.35	35.1	189	38.1	12.7
REP 1964429	QC																9.34	55.55	17.23	36.1	184	39.3	12.5
Reference Materials																							
STD DS11	Standard			1.73	32.1	1.6	<0.05	2.7	8.15	38.1	0.22	55	0.5	22.4	108	193							
STD DS11	Standard			1.48	33.2	1.7	<0.05	2.0	7.50	37.5	0.21	44	0.7	21.8	111	167							
STD DS9	Standard			1.60	32.4	6.3	<0.05	1.8	6.32	27.7	2.02	77	5.4	26.3	141	374							
STD DS9	Standard																12.86	104.9	140.5	310.1	1909	41.3	7.7
STD DS9	Standard			1.83	35.6	6.3	<0.05	1.5	6.37	25.4	2.29	65	4.9	24.7	116	348							
STD DS9	Standard																12.50	115.7	131.3	320.5	1865	42.5	7.8
STD OREAS45EA	Standard																1.44	721.1	12.34	29.6	250	399.2	50.2
STD OREAS45EA	Standard																1.65	666.5	15.81	26.4	280	370.4	52.9
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	12.84	108	126	317	1830	40.3	7.6
STD OREAS45EA Expected																	1.78	709	14.3	30.6	311	357	52
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																<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
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																<0.01	0.21	<0.01	<0.1	<2	<0.1	<0.1



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QUALITY CONTROL REPORT

SMI13000060.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	
Unit	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	
MDL	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	
Pulp Duplicates																					
1964321	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 1964321	QC																				
1964429	Soil	1052	2.04	2.9	9.0	1.2	0.2	106.3	0.60	0.47	0.15	48	1.79	0.086	5.0	84.2	0.52	390.3	0.018	<20	0.77
REP 1964429	QC	1056	2.03	3.0	9.4	1.5	0.1	107.6	0.63	0.47	0.14	48	1.79	0.087	5.0	87.4	0.52	400.8	0.018	<20	0.77
Reference Materials																					
STD DS11	Standard																				
STD DS11	Standard																				
STD DS9	Standard																				
STD DS9	Standard	588	2.39	26.7	2.8	132.9	6.6	70.3	2.37	4.36	6.56	40	0.74	0.088	12.7	119.6	0.64	317.7	0.113	<20	0.98
STD DS9	Standard																				
STD DS9	Standard	551	2.30	23.5	2.7	1757	6.5	66.9	2.29	5.02	5.83	38	0.69	0.073	12.0	115.1	0.61	250.9	0.106	<20	0.90
STD OREAS45EA	Standard	388	23.20	9.4	1.6	55.7	9.0	3.5	0.02	0.15	0.20	307	0.04	0.031	6.1	853.7	0.10	131.6	0.091	<20	3.23
STD OREAS45EA	Standard	352	22.86	10.2	1.8	53.1	11.4	4.3	0.03	0.30	0.23	290	0.03	0.026	7.2	770.9	0.09	148.6	0.092	<20	3.00
STD DS9 Expected		575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3	121	0.6165	330	0.1108		0.9577
STD OREAS45EA Expected		400	22.65	11.4	1.73	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19	849	0.095	148	0.106		3.32
BLK	Blank																				
BLK	Blank	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01
BLK	Blank																				
BLK	Blank	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01



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Project: SMK
 Report Date: July 17, 2013

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Part: 5 of 1

QUALITY CONTROL REPORT

SMI13000060.1

Method		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
Analyte		Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce
Unit		%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		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	0.02	0.1	0.1	0.05	0.1	0.01	0.1
Pulp Duplicates																					
1964321	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 1964321	QC																				
1964429	Soil	0.016	0.04	<0.1	3.3	0.08	0.10	196	0.4	<0.02	2.3	2.00	<0.1	<0.02	0.24	10.7	0.8	<0.05	0.4	5.81	7.5
REP 1964429	QC	0.015	0.04	<0.1	3.2	0.08	0.10	163	0.5	<0.02	2.3	1.97	<0.1	<0.02	0.27	12.0	0.2	<0.05	0.5	5.87	7.2
Reference Materials																					
STD DS11	Standard																				
STD DS11	Standard																				
STD DS9	Standard																				
STD DS9	Standard	0.081	0.40	3.2	2.6	5.86	0.17	221	5.3	5.07	4.4	2.31	<0.1	0.09	0.93	33.7	6.2	<0.05	2.0	5.84	23.8
STD DS9	Standard																				
STD DS9	Standard	0.079	0.40	2.9	2.2	4.96	0.17	174	4.9	4.36	4.1	2.16	<0.1	0.05	0.79	30.3	6.0	<0.05	1.4	4.93	23.1
STD OREAS45EA	Standard	0.017	0.05	<0.1	73.0	0.06	0.03	8	0.7	0.07	12.0	0.60	0.2	0.58	0.04	7.0	0.8	<0.05	20.7	5.05	15.9
STD OREAS45EA	Standard	0.015	0.05	<0.1	72.2	<0.02	0.04	9	0.9	0.10	11.1	0.65	0.3	0.43	0.07	6.6	0.7	<0.05	14.8	5.03	19.4
STD DS9 Expected		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	0.96	33.8	6.4	0.004	2	5.97	25.4
STD OREAS45EA Expected		0.027	0.053		78	0.072	0.044	340	2.09	0.11	11.7	0.77	0.26	0.82	0.43	7.93	0.97		26.6	5.74	17.7
BLK	Blank																				
BLK	Blank	<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	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	0.2
BLK	Blank																				
BLK	Blank	<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	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	0.1



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Project: SMK
 Report Date: July 17, 2013

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QUALITY CONTROL REPORT

SMI13000060.1

Method	1F	1F	1F	1F	1F	1F
Analyte	In	Re	Be	Li	Pd	Pt
Unit	ppm	ppb	ppm	ppm	ppb	ppb
MDL	0.02	1	0.1	0.1	10	2
Pulp Duplicates						
1964321	Soil	N.A.	N.A.	N.A.	N.A.	N.A.
REP 1964321	QC					
1964429	Soil	0.02	3	0.3	5.0	<10
REP 1964429	QC	<0.02	3	0.1	5.1	<10
Reference Materials						
STD DS11	Standard					
STD DS11	Standard					
STD DS9	Standard					
STD DS9	Standard	2.17	62	6.3	29.2	150
STD DS9	Standard					
STD DS9	Standard	2.06	52	5.0	24.4	90
STD OREAS45EA	Standard	0.07	<1	0.5	3.0	68
STD OREAS45EA	Standard	0.08	<1	0.4	2.0	88
STD DS9 Expected		2.2	61	5.4	25.2	120
STD OREAS45EA Expected		0.1		0.47	7.63	66
BLK	Blank					
BLK	Blank	<0.02	<1	<0.1	<0.1	<10
BLK	Blank					
BLK	Blank	<0.02	<1	<0.1	<0.1	<10



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Submitted By: Dave Moore
Receiving Lab: Canada-Smithers
Received: June 28, 2013
Report Date: July 16, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000061.1

CLIENT JOB INFORMATION

Project: KE
Shipment ID: KE2013-1
P.O. Number
Number of Samples: 30

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: Serengeti Resources
1700 - 750 W. Pender Street
Vancouver BC V6C 2T8
CANADA

CC: Hilary Clarke

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Air Dry	30	Air Dry			SMI
SS80	30	Dry at 60C sieve 100g to -80 mesh			SMI
1F05	4	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
1F04	15	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN

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: KE
 Report Date: July 16, 2013

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CERTIFICATE OF ANALYSIS

SMI13000061.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
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	
1964003	Soil	1.54	14.22	2.39	5.9	222	14.3	1.0	214	0.34	1.5	0.9	1.0	0.1	55.8	0.55	1.34	0.19	5	1.29	0.048
1964006	Soil	2.20	23.14	13.28	296.0	929	14.7	4.7	>10000	0.59	1.2	0.1	2.8	<0.1	38.4	1.94	0.19	0.11	14	1.32	0.206
1964012	Soil	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.
1964013	Soil	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.
1964014	Soil	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.
1964016	Soil	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.
1964018	Soil	6.42	19.71	3.40	8.7	252	19.3	1.5	1338	0.21	0.7	2.1	3.4	0.2	231.2	0.69	0.30	0.03	15	3.26	0.089
1964328	Soil	0.57	2.94	4.56	16.7	36	3.1	1.0	418	0.19	0.3	<0.1	<0.2	<0.1	8.0	0.12	0.11	0.02	5	0.15	0.046
1964329	Soil	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.
1964330	Soil	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.
1964331	Soil	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.
1964335	Soil	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.
1964337	Soil	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.
1964338	Soil	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.
1964339	Soil	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.
1964340	Soil	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.
1964341	Soil	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.
1964344	Soil	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.
1964345	Soil	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.
1964397	Soil	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.
1964398	Soil	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.
1964399	Soil	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.
1964400	Soil	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.
1964448	Soil	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.
1964450	Soil	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.
1964459	Soil	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.
1964460	Soil	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.
1964461	Soil	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.
1964462	Soil	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.
1964465	Soil	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.

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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Project: KE
 Report Date: July 16, 2013

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CERTIFICATE OF ANALYSIS

SMI13000061.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	0.02	
1964003	Soil	4.4	7.0	0.14	89.2	0.002	3	0.26	0.005	0.02	<0.1	1.2	0.02	0.11	143	0.2	<0.02	0.3	0.12	<0.1	<0.02
1964006	Soil	2.1	22.1	0.15	522.7	0.008	3	0.89	0.020	0.22	0.2	0.8	0.28	0.21	647	0.9	<0.02	2.0	0.60	<0.1	<0.02
1964012	Soil	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.
1964013	Soil	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.
1964014	Soil	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.
1964016	Soil	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.
1964018	Soil	4.5	14.0	0.20	1141	0.003	7	0.17	0.023	0.06	0.2	1.0	0.04	0.18	315	0.4	<0.02	0.5	0.19	<0.1	<0.02
1964328	Soil	1.1	5.7	0.03	119.6	0.004	1	0.16	0.005	0.04	<0.1	0.4	0.03	0.03	89	0.1	<0.02	0.4	0.21	<0.1	<0.02
1964329	Soil	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.
1964330	Soil	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.
1964331	Soil	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.
1964335	Soil	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.
1964337	Soil	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.
1964338	Soil	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.
1964339	Soil	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.
1964340	Soil	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.
1964341	Soil	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.
1964344	Soil	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.
1964345	Soil	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.
1964397	Soil	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.
1964398	Soil	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.
1964399	Soil	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.
1964400	Soil	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.
1964448	Soil	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.
1964450	Soil	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.
1964459	Soil	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.
1964460	Soil	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.
1964461	Soil	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.
1964462	Soil	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.
1964465	Soil	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.

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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Project: KE
 Report Date: July 16, 2013

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Part: 3 of 1

CERTIFICATE OF ANALYSIS

SMI13000061.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F	1F	1F	1F	1F	1F	1F
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1
1964003	Soil	0.05	1.0	<0.1	<0.05	0.5	5.68	10.5	<0.02	<1	0.1	0.3	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964006	Soil	0.21	11.9	<0.1	<0.05	<0.1	0.85	4.4	<0.02	<1	<0.1	0.6	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964012	Soil	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.	2.41	7.36	7.41	34.9	486	4.0
1964013	Soil	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.	0.96	8.87	4.62	71.2	287	3.4
1964014	Soil	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.	11.56	9.36	5.28	26.7	78	4.3
1964016	Soil	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.	0.76	6.54	5.99	33.9	73	8.8
1964018	Soil	0.09	1.5	<0.1	<0.05	0.7	6.15	2.9	<0.02	1	0.2	0.2	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964328	Soil	0.07	1.9	<0.1	<0.05	<0.1	0.35	1.9	<0.02	<1	<0.1	0.3	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964329	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964330	Soil	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.	14.98	4.01	6.16	14.2	203	7.3
1964331	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964335	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964337	Soil	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.	0.73	7.61	9.00	70.4	184	4.8
1964338	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964339	Soil	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.	0.62	79.42	4.19	10.8	273	18.5
1964340	Soil	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.	1.46	8.32	4.83	10.4	256	6.8
1964341	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964344	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964345	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964397	Soil	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.	16.77	6.09	2.60	15.2	63	5.9
1964398	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964399	Soil	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.	1.22	7.13	5.18	34.7	552	7.3
1964400	Soil	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.	1.00	30.04	13.11	32.3	1250	31.8
1964448	Soil	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.	0.37	13.72	10.61	52.8	527	7.0
1964450	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964459	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964460	Soil	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.	0.75	18.07	1.30	33.8	158	4.7
1964461	Soil	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.	2.34	5.65	4.13	9.8	20	4.7
1964462	Soil	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.	0.95	40.75	2.67	11.6	263	28.3
1964465	Soil	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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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Project: KE
 Report Date: July 16, 2013

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Part: 4 of 1

CERTIFICATE OF ANALYSIS

SMI13000061.1

Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
Unit		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	
MDL		1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01
1964003	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964006	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964012	Soil	423	0.19	0.6	<0.1	0.7	<0.1	29.9	0.32	0.20	0.04	4	0.72	0.107	0.9	6.2	0.08	262.3	0.005	<20	0.16
1964013	Soil	1462	0.17	0.3	<0.1	0.6	<0.1	48.1	0.54	0.09	0.03	3	1.20	0.096	1.0	4.8	0.08	484.5	0.003	<20	0.23
1964014	Soil	44	0.17	0.3	0.5	0.5	0.2	70.0	0.39	0.14	0.05	3	0.98	0.064	1.0	9.2	0.09	436.3	0.006	<20	0.14
1964016	Soil	3251	0.25	0.4	<0.1	3.1	<0.1	20.0	0.39	0.09	0.03	5	0.61	0.118	0.7	10.3	0.08	142.3	0.004	<20	0.31
1964018	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964328	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964329	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964330	Soil	35	0.41	0.5	0.1	0.4	0.3	54.7	0.17	0.12	0.04	13	0.75	0.070	1.7	16.7	0.14	372.2	0.007	<20	0.27
1964331	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964335	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964337	Soil	444	0.47	0.7	0.2	0.2	<0.1	17.9	0.58	0.11	0.08	12	0.30	0.077	2.3	11.5	0.05	268.2	0.002	<20	0.41
1964338	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964339	Soil	655	1.03	0.9	5.8	0.2	0.4	192.3	0.54	0.50	0.08	20	3.31	0.088	9.0	61.5	0.27	1669	0.006	<20	0.40
1964340	Soil	1301	0.30	0.2	<0.1	<0.2	<0.1	81.7	0.53	0.07	0.03	9	1.33	0.086	0.7	14.3	0.09	532.0	0.006	<20	0.11
1964341	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964344	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964345	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964397	Soil	1303	3.01	1.1	0.2	1.7	<0.1	116.7	0.15	0.18	<0.02	4	2.53	0.092	<0.5	29.1	0.13	839.6	0.001	<20	0.06
1964398	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964399	Soil	886	0.17	0.2	0.1	0.8	<0.1	69.2	0.40	0.23	0.04	7	1.00	0.119	1.9	10.6	0.18	300.9	0.006	<20	0.23
1964400	Soil	1515	1.13	1.1	1.1	1.0	<0.1	66.4	0.87	0.58	0.09	17	0.82	0.115	17.2	26.5	0.25	490.6	0.009	<20	0.92
1964448	Soil	995	0.67	0.6	0.2	1.6	<0.1	30.9	0.75	0.08	0.09	16	0.32	0.080	4.5	15.0	0.05	404.4	<0.001	<20	0.74
1964450	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964459	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964460	Soil	130	0.12	0.2	1.1	0.8	0.1	127.5	0.36	0.17	<0.02	6	2.24	0.056	5.4	9.4	0.08	1109	0.003	<20	0.12
1964461	Soil	54	0.08	0.2	<0.1	1.7	<0.1	62.0	0.25	0.07	0.09	<2	0.89	0.061	<0.5	7.4	0.07	301.0	0.002	<20	0.05
1964462	Soil	719	0.40	0.7	1.0	1.4	0.2	260.0	0.70	0.57	0.06	7	4.13	0.086	7.7	16.5	0.32	1394	0.004	<20	0.26
1964465	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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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Project: KE
 Report Date: July 16, 2013

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CERTIFICATE OF ANALYSIS

SMI13000061.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
Unit	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	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	0.02	0.1	0.02	0.05	0.1	0.01	0.1	
1964003	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964006	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964012	Soil	0.025	0.06	<0.1	0.5	0.03	0.13	269	0.1	<0.02	0.4	0.42	<0.1	<0.02	0.08	2.1	0.2	<0.05	0.5	0.41	1.7
1964013	Soil	0.018	0.08	<0.1	0.5	0.05	0.11	295	0.2	<0.02	0.4	0.26	<0.1	<0.02	0.05	3.2	<0.1	<0.05	0.1	0.39	1.7
1964014	Soil	0.025	0.06	<0.1	0.9	<0.02	0.13	179	0.2	<0.02	0.5	0.12	<0.1	<0.02	0.10	1.9	0.2	<0.05	0.6	0.41	1.9
1964016	Soil	0.017	0.09	<0.1	0.5	0.05	0.13	239	0.2	<0.02	0.4	0.25	<0.1	<0.02	0.05	3.3	0.1	<0.05	0.1	0.38	1.4
1964018	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964328	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964329	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964330	Soil	0.015	0.06	0.2	1.0	<0.02	0.10	153	0.1	<0.02	1.0	0.07	<0.1	<0.02	0.20	1.0	0.1	<0.05	0.4	0.74	2.8
1964331	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964335	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964337	Soil	0.016	0.08	0.1	0.3	0.03	0.06	137	0.3	<0.02	1.3	0.25	<0.1	<0.02	0.09	3.0	0.2	<0.05	<0.1	0.57	4.4
1964338	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964339	Soil	0.012	0.03	0.1	1.5	0.04	0.14	260	1.4	0.04	1.1	0.37	<0.1	<0.02	0.25	6.0	<0.1	<0.05	0.5	11.32	8.1
1964340	Soil	0.020	0.09	<0.1	0.6	0.02	0.12	193	<0.1	<0.02	0.5	0.18	<0.1	<0.02	0.09	2.2	<0.1	<0.05	0.1	0.27	1.5
1964341	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964344	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964345	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964397	Soil	0.037	0.04	<0.1	0.3	<0.02	0.31	99	0.5	<0.02	0.2	0.07	<0.1	<0.02	0.04	1.1	0.2	<0.05	0.2	0.29	0.8
1964398	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964399	Soil	0.015	0.10	<0.1	0.9	0.03	0.11	196	0.1	<0.02	0.5	0.11	<0.1	<0.02	0.09	2.2	<0.1	<0.05	0.2	1.28	3.7
1964400	Soil	0.020	0.07	0.1	1.8	0.05	0.09	217	<0.1	<0.02	1.7	0.41	<0.1	<0.02	0.21	5.0	0.2	<0.05	<0.1	12.84	35.6
1964448	Soil	0.014	0.05	0.1	0.2	0.03	0.04	87	<0.1	<0.02	1.3	0.39	<0.1	<0.02	0.14	7.2	0.2	<0.05	<0.1	1.38	7.6
1964450	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964459	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
1964460	Soil	0.015	0.05	<0.1	0.7	<0.02	0.14	211	0.2	<0.02	0.3	0.10	<0.1	<0.02	0.05	1.1	<0.1	<0.05	0.4	5.84	1.5
1964461	Soil	0.024	0.05	<0.1	0.4	<0.02	0.15	181	<0.1	<0.02	0.1	0.10	<0.1	<0.02	0.04	1.2	0.9	<0.05	0.2	0.11	0.5
1964462	Soil	0.021	0.03	<0.1	0.9	0.04	0.21	183	0.3	<0.02	0.6	0.16	<0.1	0.03	0.11	2.1	<0.1	<0.05	0.8	6.92	3.7
1964465	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	



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Project: KE
 Report Date: July 16, 2013

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CERTIFICATE OF ANALYSIS

SMI13000061.1

Method	Analyte	1F	1F	1F	1F	1F	1F
		In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	1	0.1	0.1	10	2
1964003	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964006	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964012	Soil	<0.02	<1	<0.1	0.4	<10	<2
1964013	Soil	<0.02	<1	<0.1	0.2	<10	<2
1964014	Soil	<0.02	<1	<0.1	0.3	<10	<2
1964016	Soil	<0.02	<1	<0.1	0.5	<10	<2
1964018	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964328	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964329	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964330	Soil	<0.02	<1	<0.1	0.6	<10	<2
1964331	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964335	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964337	Soil	<0.02	<1	<0.1	0.2	<10	<2
1964338	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964339	Soil	<0.02	<1	0.3	2.2	<10	2
1964340	Soil	<0.02	<1	<0.1	0.2	<10	6
1964341	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964344	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964345	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964397	Soil	<0.02	2	<0.1	0.1	<10	<2
1964398	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964399	Soil	<0.02	<1	<0.1	0.3	<10	<2
1964400	Soil	<0.02	<1	0.8	1.8	<10	2
1964448	Soil	<0.02	<1	0.2	0.5	<10	6
1964450	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964459	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1964460	Soil	<0.02	<1	<0.1	0.2	<10	<2
1964461	Soil	<0.02	<1	<0.1	<0.1	<10	<2
1964462	Soil	<0.02	<1	0.3	1.2	<10	<2
1964465	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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QUALITY CONTROL REPORT

SMI13000061.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
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																					
1964339	Soil	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.
REP 1964339	QC																				
1964462	Soil	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.
REP 1964462	QC																				
Reference Materials																					
STD DS11	Standard	14.11	146.2	132.6	321.9	1797	77.3	13.0	997	2.98	40.0	2.6	108.3	7.3	58.5	2.24	8.02	10.08	47	1.00	0.061
STD DS9	Standard																				
STD DS9	Standard	13.25	108.8	122.0	316.6	1867	38.5	7.0	582	2.32	25.1	2.9	114.6	6.2	70.4	2.42	5.57	5.88	40	0.72	0.075
STD DS9	Standard																				
STD OREAS45EA	Standard																				
STD OREAS45EA	Standard																				
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
STD OREAS45EA Expected																					
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.01	0.5	<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																				

QUALITY CONTROL REPORT

SMI13000061.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
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																					
1964339	Soil	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.
REP 1964339	QC																				
1964462	Soil	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.
REP 1964462	QC																				
Reference Materials																					
STD DS11	Standard	17.6	56.6	0.83	372.9	0.085	8	1.08	0.064	0.38	3.2	3.0	4.67	0.27	286	2.0	4.74	4.6	2.97	<0.1	0.05
STD DS9	Standard																				
STD DS9	Standard	13.9	121.0	0.63	306.9	0.111	3	0.95	0.082	0.39	3.3	2.5	5.43	0.16	206	5.3	5.08	4.6	2.47	<0.1	0.07
STD DS9	Standard																				
STD OREAS45EA	Standard																				
STD OREAS45EA	Standard																				
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
STD OREAS45EA Expected																					
BLK	Blank																				
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																				



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Project: KE
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QUALITY CONTROL REPORT

SMI13000061.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F	1F	1F	1F	1F	1F	1F	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1	
Pulp Duplicates																					
1964339	Soil	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.	0.62	79.42	4.19	10.8	273	18.5	4.4
REP 1964339	QC													0.58	77.21	4.26	11.7	272	19.6	4.3	
1964462	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	0.95	40.75	2.67	11.6	263	28.3	2.2	
REP 1964462	QC													0.86	39.88	2.69	11.3	263	28.2	2.2	
Reference Materials																					
STD DS11	Standard	1.48	33.2	1.7	<0.05	2.0	7.50	37.5	0.21	44	0.7	21.8	111	167							
STD DS9	Standard													12.86	104.9	140.5	310.1	1909	41.3	7.7	
STD DS9	Standard	1.83	35.6	6.3	<0.05	1.5	6.37	25.4	2.29	65	4.9	24.7	116	348							
STD DS9	Standard													13.51	114.0	127.0	320.5	1803	40.5	8.2	
STD OREAS45EA	Standard													1.44	721.1	12.34	29.6	250	399.2	50.2	
STD OREAS45EA	Standard													1.46	725.1	14.84	34.6	301	406.4	54.0	
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	12.84	108	126	317	1830	40.3	7.6
STD OREAS45EA Expected														1.78	709	14.3	30.6	311	357	52	
BLK	Blank													<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	
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													<0.01	<0.01	0.01	<0.1	<2	<0.1	<0.1	

QUALITY CONTROL REPORT

SMI13000061.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	
Unit	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	
MDL	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	
Pulp Duplicates																					
1964339	Soil	655	1.03	0.9	5.8	0.2	0.4	192.3	0.54	0.50	0.08	20	3.31	0.088	9.0	61.5	0.27	1669	0.006	<20	0.40
REP 1964339	QC	642	1.03	1.1	5.8	0.4	0.4	187.8	0.51	0.49	0.07	19	3.33	0.093	9.1	61.7	0.27	1664	0.007	<20	0.41
1964462	Soil	719	0.40	0.7	1.0	1.4	0.2	260.0	0.70	0.57	0.06	7	4.13	0.086	7.7	16.5	0.32	1394	0.004	<20	0.26
REP 1964462	QC	722	0.40	0.7	1.0	1.2	0.2	260.5	0.71	0.54	0.04	7	4.09	0.082	8.1	15.6	0.31	1435	0.004	<20	0.26
Reference Materials																					
STD DS11	Standard																				
STD DS9	Standard	588	2.39	26.7	2.8	132.9	6.6	70.3	2.37	4.36	6.56	40	0.74	0.088	12.7	119.6	0.64	317.7	0.113	<20	0.98
STD DS9	Standard																				
STD DS9	Standard	575	2.47	29.3	2.8	119.8	6.5	73.8	2.64	4.24	6.52	41	0.73	0.089	12.7	120.0	0.65	335.6	0.114	<20	0.99
STD OREAS45EA	Standard	388	23.20	9.4	1.6	55.7	9.0	3.5	0.02	0.15	0.20	307	0.04	0.031	6.1	853.7	0.10	131.6	0.091	<20	3.23
STD OREAS45EA	Standard	420	24.92	9.9	1.8	58.9	10.3	4.0	0.04	0.14	0.30	306	0.04	0.029	7.0	950.5	0.10	158.7	0.096	<20	3.38
STD DS9 Expected		575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3	121	0.6165	330	0.1108		0.9577
STD OREAS45EA Expected		400	22.65	11.4	1.73	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19	849	0.095	148	0.106		3.32
BLK	Blank	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01
BLK	Blank																				
BLK	Blank	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01



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QUALITY CONTROL REPORT

SMI13000061.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
Unit	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	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	0.02	0.1	0.1	0.05	0.1	0.01	0.1	
Pulp Duplicates																					
1964339	Soil	0.012	0.03	0.1	1.5	0.04	0.14	260	1.4	0.04	1.1	0.37	<0.1	<0.02	0.25	6.0	<0.1	<0.05	0.5	11.32	8.1
REP 1964339	QC	0.011	0.03	0.1	1.5	0.04	0.14	207	1.4	<0.02	1.1	0.37	<0.1	<0.02	0.21	5.7	<0.1	<0.05	0.5	10.97	8.5
1964462	Soil	0.021	0.03	<0.1	0.9	0.04	0.21	183	0.3	<0.02	0.6	0.16	<0.1	0.03	0.11	2.1	<0.1	<0.05	0.8	6.92	3.7
REP 1964462	QC	0.021	0.03	<0.1	0.9	0.03	0.20	293	0.3	<0.02	0.6	0.16	<0.1	0.03	0.10	2.2	<0.1	<0.05	0.7	7.02	3.8
Reference Materials																					
STD DS11	Standard																				
STD DS9	Standard	0.081	0.40	3.2	2.6	5.86	0.17	221	5.3	5.07	4.4	2.31	<0.1	0.09	0.93	33.7	6.2	<0.05	2.0	5.84	23.8
STD DS9	Standard																				
STD DS9	Standard	0.087	0.41	2.4	2.5	5.42	0.18	217	5.6	5.40	4.8	2.48	<0.1	0.06	0.90	32.8	7.2	<0.05	1.7	5.78	24.2
STD OREAS45EA	Standard	0.017	0.05	<0.1	73.0	0.06	0.03	8	0.7	0.07	12.0	0.60	0.2	0.58	0.04	7.0	0.8	<0.05	20.7	5.05	15.9
STD OREAS45EA	Standard	0.025	0.06	<0.1	78.8	<0.02	0.04	13	0.9	0.05	13.3	0.66	0.2	0.68	0.07	7.6	0.9	<0.05	22.7	5.46	17.9
STD DS9 Expected		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	0.96	33.8	6.4	0.004	2	5.97	25.4
STD OREAS45EA Expected		0.027	0.053		78	0.072	0.044	340	2.09	0.11	11.7	0.77	0.26	0.82	0.43	7.93	0.97		26.6	5.74	17.7
BLK	Blank	<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	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	0.2
BLK	Blank																				
BLK	Blank	<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	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	0.2



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QUALITY CONTROL REPORT

SMI13000061.1

Method		1F	1F	1F	1F	1F	1F
Analyte		In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	1	0.1	0.1	10	2
Pulp Duplicates							
1964339	Soil	<0.02	<1	0.3	2.2	<10	2
REP 1964339	QC	<0.02	3	0.3	2.3	<10	3
1964462	Soil	<0.02	<1	0.3	1.2	<10	<2
REP 1964462	QC	<0.02	<1	0.2	1.2	<10	<2
Reference Materials							
STD DS11	Standard						
STD DS9	Standard	2.17	62	6.3	29.2	150	381
STD DS9	Standard						
STD DS9	Standard	2.09	69	5.1	26.3	109	389
STD OREAS45EA	Standard	0.07	<1	0.5	3.0	68	105
STD OREAS45EA	Standard	0.09	<1	0.4	2.8	86	124
STD DS9 Expected		2.2	61	5.4	25.2	120	350
STD OREAS45EA Expected		0.1		0.47	7.63	66	108
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank						
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2



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Submitted By: Dave Moore
Receiving Lab: Canada-Smithers
Received: June 28, 2013
Report Date: July 09, 2013
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CERTIFICATE OF ANALYSIS

SMI13000062.1

CLIENT JOB INFORMATION

Project: KE
Shipment ID: KE2013-1
P.O. Number
Number of Samples: 32

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: Serengeti Resources
1700 - 750 W. Pender Street
Vancouver BC V6C 2T8
CANADA

CC: Hilary Clarke

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	32	Dry at 60C			SMI
SS80	32	Dry at 60C sieve 100g to -80 mesh			SMI
1F02	32	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

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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CERTIFICATE OF ANALYSIS

SMI13000062.1

Method Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1445455	Soil		1.29	13.93	6.47	62.3	112	22.4	7.0	158	2.68	3.8	0.5	3.6	2.5	10.0	0.16	0.42	0.11	55	0.14	0.146
1445456	Soil		1.29	13.49	5.39	38.6	78	22.9	5.7	163	2.13	2.9	0.4	0.4	1.1	16.1	0.12	0.33	0.12	59	0.24	0.031
1964001	Soil		1.28	10.59	7.63	57.5	85	17.2	7.0	188	3.58	3.0	0.6	2.6	3.3	10.4	0.06	0.32	0.16	82	0.13	0.197
1964002	Soil		0.90	7.56	6.93	50.7	137	16.9	8.0	173	3.59	2.5	0.5	0.9	2.5	9.8	0.06	0.31	0.12	86	0.15	0.174
1964004	Soil		0.77	7.14	6.55	58.6	80	20.5	10.2	187	4.40	1.9	0.6	3.4	3.3	9.3	0.07	0.31	0.11	122	0.19	0.186
1964005	Soil		1.48	7.26	5.16	20.3	48	14.4	5.3	150	2.35	2.7	0.4	4.7	1.6	12.0	0.03	0.34	0.09	66	0.20	0.039
1964007	Soil		0.91	9.52	4.82	34.4	60	15.4	5.2	201	1.59	2.0	0.3	0.7	1.2	13.5	0.11	0.29	0.09	43	0.19	0.039
1964008	Soil		1.16	9.03	7.47	26.4	27	16.4	4.6	166	2.12	2.9	0.3	1.8	1.1	14.0	0.07	0.28	0.12	54	0.17	0.111
1964009	Soil		1.59	8.41	6.45	21.3	45	16.1	5.7	160	2.61	2.9	0.3	14.5	1.0	15.2	0.08	0.29	0.09	72	0.20	0.037
1964010	Soil		1.48	14.35	5.90	39.8	145	20.1	6.8	472	1.79	3.7	0.3	4.7	1.3	16.5	0.28	0.37	0.13	38	0.20	0.055
1964011	Soil		1.24	17.58	7.75	50.2	141	30.7	8.3	162	2.07	3.6	0.4	3.3	2.0	19.8	0.11	0.39	0.13	46	0.16	0.100
1964015	Soil		1.65	25.57	9.24	38.0	296	29.1	8.8	983	2.31	3.1	1.6	2.3	1.7	30.7	0.36	0.37	0.17	55	0.38	0.032
1964017	Soil		0.68	6.83	7.10	43.1	64	13.4	7.5	464	2.69	2.0	0.2	2.0	1.3	8.2	0.07	0.35	0.12	69	0.10	0.098
1964327	Soil		2.05	7.69	6.73	23.7	67	14.3	5.9	123	3.51	2.6	0.3	0.8	1.4	11.0	0.05	0.31	0.15	88	0.11	0.042
1964332	Soil		3.94	19.50	6.94	20.5	146	22.5	9.3	403	2.28	2.5	3.0	5.7	1.4	31.4	0.13	0.24	0.13	51	0.40	0.038
1964333	Soil		0.87	11.59	5.23	38.7	51	21.0	5.7	200	1.95	2.4	0.3	1.1	1.8	14.0	0.08	0.29	0.10	42	0.19	0.060
1964334	Soil		2.04	19.40	8.99	22.1	165	21.6	5.8	160	1.99	2.3	1.2	3.2	1.6	16.8	0.18	0.33	0.17	51	0.17	0.024
1964336	Soil		1.57	14.20	6.67	49.7	92	22.1	8.1	262	3.34	3.6	0.4	1.5	1.8	16.3	0.10	0.51	0.21	82	0.18	0.178
1964342	Soil		0.81	8.68	7.30	63.2	72	14.0	7.7	428	2.66	2.7	0.3	1.5	1.4	7.9	0.06	0.31	0.13	67	0.10	0.125
1964343	Soil		1.04	19.19	8.11	58.5	65	39.1	11.4	292	3.80	4.7	0.5	2.8	2.5	11.1	0.11	0.53	0.14	95	0.20	0.131
1964396	Soil		0.67	5.47	4.96	32.2	38	16.2	7.2	296	2.90	1.6	0.5	1.4	2.6	9.5	0.04	0.28	0.10	79	0.15	0.074
1964449	Soil		0.77	9.70	6.10	27.7	82	17.6	7.0	393	2.68	1.9	0.5	5.6	2.6	9.2	0.03	0.27	0.12	70	0.13	0.064
1964451	Soil		1.40	21.70	7.81	58.4	154	23.7	9.3	322	2.96	3.2	0.7	4.9	3.7	10.6	0.07	0.41	0.16	66	0.12	0.132
1964452	Soil		0.78	11.23	4.47	40.3	100	19.0	5.1	192	1.89	2.4	0.5	2.8	2.4	9.2	0.07	0.32	0.10	39	0.12	0.108
1964453	Soil		0.75	9.32	6.50	39.8	76	20.0	8.5	228	3.44	3.1	0.6	3.2	3.0	9.3	0.13	0.32	0.11	87	0.18	0.179
1964454	Soil		0.84	11.80	6.64	24.6	39	18.8	6.1	232	1.63	2.0	0.6	4.1	2.1	19.1	0.05	0.25	0.10	40	0.29	0.058
1964455	Soil		1.12	9.88	6.97	31.2	160	17.5	5.7	111	3.04	3.5	0.4	6.2	1.8	11.6	0.09	0.36	0.12	76	0.14	0.142
1964456	Soil		1.59	11.11	8.12	46.6	95	22.5	7.5	190	3.19	3.4	0.3	3.5	1.6	15.0	0.17	0.40	0.15	83	0.17	0.065
1964457	Soil		1.20	20.55	5.49	40.8	27	23.4	7.1	234	1.98	3.5	0.4	6.5	2.4	14.3	0.07	0.46	0.09	40	0.19	0.051
1964458	Soil		0.77	11.77	4.43	31.5	9	16.4	5.0	203	1.60	2.1	0.4	3.2	2.0	12.4	0.04	0.31	0.08	34	0.18	0.037

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CERTIFICATE OF ANALYSIS

SMI13000062.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	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
1445455	Soil	5.5	71.7	0.42	67.1	0.027	2	1.09	0.009	0.03	0.3	2.8	0.04	<0.02	53	<0.1	0.02	3.0
1445456	Soil	5.8	60.2	0.37	124.8	0.038	1	0.74	0.009	0.03	0.4	2.4	0.04	<0.02	89	<0.1	<0.02	2.9
1964001	Soil	5.3	71.9	0.42	78.4	0.013	1	2.18	0.010	0.04	0.5	3.0	0.10	<0.02	45	<0.1	<0.02	6.2
1964002	Soil	4.8	92.0	0.29	59.7	0.015	1	1.50	0.009	0.03	0.6	3.2	0.05	<0.02	57	0.2	<0.02	3.6
1964004	Soil	5.6	106.0	0.30	108.4	0.016	1	1.10	0.008	0.04	0.7	2.1	0.04	<0.02	85	<0.1	<0.02	3.7
1964005	Soil	4.7	62.8	0.37	76.3	0.031	2	0.64	0.008	0.04	0.4	1.9	0.03	<0.02	48	<0.1	0.05	2.5
1964007	Soil	5.8	42.8	0.41	150.7	0.036	2	0.79	0.009	0.04	0.2	2.0	0.05	<0.02	27	<0.1	<0.02	2.9
1964008	Soil	6.7	60.0	0.39	160.9	0.032	1	0.94	0.009	0.03	0.2	2.5	0.06	<0.02	38	<0.1	<0.02	3.4
1964009	Soil	4.8	70.1	0.33	108.2	0.041	2	0.67	0.009	0.03	0.3	1.9	0.04	<0.02	279	<0.1	<0.02	2.8
1964010	Soil	7.5	43.9	0.41	184.8	0.033	1	0.81	0.007	0.06	0.1	2.5	0.05	<0.02	54	0.1	<0.02	2.8
1964011	Soil	7.2	61.6	0.41	114.9	0.036	2	1.43	0.010	0.04	0.2	3.4	0.06	<0.02	72	0.2	0.03	3.6
1964015	Soil	9.4	74.5	0.38	570.2	0.024	1	1.19	0.010	0.05	0.3	4.8	0.08	<0.02	81	0.3	0.02	4.0
1964017	Soil	3.8	63.0	0.20	43.5	0.024	1	1.20	0.007	0.02	0.3	2.0	0.07	<0.02	72	<0.1	0.02	3.6
1964327	Soil	4.4	78.3	0.26	57.6	0.033	1	0.92	0.008	0.03	0.6	1.7	0.04	<0.02	38	<0.1	0.02	4.6
1964332	Soil	10.0	67.6	0.38	478.7	0.026	1	0.84	0.009	0.04	0.3	3.5	0.04	<0.02	59	0.2	0.03	3.0
1964333	Soil	8.1	53.2	0.49	165.8	0.039	<1	1.06	0.009	0.04	0.2	2.4	0.06	<0.02	64	<0.1	0.02	3.3
1964334	Soil	9.6	67.2	0.36	191.9	0.031	1	0.96	0.009	0.05	0.3	3.2	0.05	<0.02	75	<0.1	<0.02	3.5
1964336	Soil	6.0	81.7	0.44	87.5	0.038	1	1.43	0.010	0.03	0.4	3.2	0.07	<0.02	54	0.1	0.04	5.5
1964342	Soil	4.1	61.5	0.22	51.1	0.027	<1	1.26	0.006	0.02	0.3	2.8	0.06	<0.02	158	0.2	<0.02	3.6
1964343	Soil	5.5	104.7	0.42	52.8	0.038	2	1.22	0.007	0.02	0.5	3.1	0.05	<0.02	130	<0.1	0.04	2.7
1964396	Soil	4.4	72.1	0.24	67.1	0.016	1	1.10	0.008	0.03	0.5	2.0	0.05	<0.02	172	<0.1	0.05	3.0
1964449	Soil	5.2	65.2	0.29	53.1	0.016	<1	1.08	0.008	0.03	0.5	1.9	0.05	<0.02	72	<0.1	0.03	3.3
1964451	Soil	6.4	74.0	0.44	104.0	0.015	1	2.10	0.010	0.05	0.5	3.3	0.09	<0.02	52	0.2	<0.02	5.1
1964452	Soil	4.6	58.3	0.39	63.2	0.019	1	1.38	0.009	0.03	0.3	2.3	0.04	<0.02	66	<0.1	0.04	2.8
1964453	Soil	5.2	93.8	0.33	62.3	0.019	<1	1.32	0.008	0.03	0.5	2.6	0.03	<0.02	114	<0.1	0.02	3.1
1964454	Soil	6.9	56.1	0.50	96.9	0.052	2	0.65	0.011	0.03	0.2	3.1	0.04	<0.02	67	<0.1	0.02	2.2
1964455	Soil	4.2	81.9	0.36	63.5	0.038	<1	1.11	0.010	0.02	0.3	2.7	0.03	<0.02	86	<0.1	<0.02	3.9
1964456	Soil	5.1	82.3	0.45	126.7	0.053	1	1.07	0.010	0.04	0.4	2.6	0.05	<0.02	58	<0.1	0.02	4.8
1964457	Soil	11.0	54.3	0.49	88.1	0.052	<1	0.87	0.008	0.03	0.1	3.3	0.04	<0.02	86	<0.1	0.02	3.0
1964458	Soil	8.6	45.3	0.42	77.5	0.044	<1	0.75	0.008	0.04	0.1	2.4	0.03	<0.02	38	<0.1	<0.02	2.5

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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Acme Analytical Laboratories (Vancouver) Ltd.
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 PHONE (604) 253-3158

Client: **Serengeti Resources**
 1700 - 750 W. Pender Street
 Vancouver BC V6C 2T8 CANADA

Project: KE
 Report Date: July 09, 2013

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CERTIFICATE OF ANALYSIS

SMI13000062.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
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	
1964463	Soil	0.82	7.44	6.93	51.0	77	13.2	6.7	669	2.36	2.4	0.2	1.5	1.4	8.5	0.07	0.28	0.12	57	0.10	0.110
1964464	Soil	0.79	9.54	7.39	63.8	75	18.1	8.3	745	2.94	2.7	0.3	<0.2	1.6	8.8	0.10	0.34	0.12	72	0.11	0.145



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CERTIFICATE OF ANALYSIS

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Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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	
1964463	Soil	4.0	57.9	0.24	55.5	0.027	1	1.11	0.007	0.02	0.2	2.4	0.06	<0.02	59	<0.1	<0.02	3.5
1964464	Soil	4.8	70.9	0.27	52.6	0.030	1	1.34	0.007	0.02	0.3	2.8	0.06	<0.02	137	<0.1	<0.02	4.0



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QUALITY CONTROL REPORT

SMI13000062.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
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																					
1964332	Soil	3.94	19.50	6.94	20.5	146	22.5	9.3	403	2.28	2.5	3.0	5.7	1.4	31.4	0.13	0.24	0.13	51	0.40	0.038
REP 1964332	QC	3.94	18.94	6.89	20.5	131	22.5	9.4	390	2.28	2.4	3.1	1.6	1.3	30.3	0.13	0.24	0.12	52	0.38	0.035
Reference Materials																					
STD DS11	Standard	13.32	145.2	137.6	322.4	1827	76.2	13.4	976	3.04	41.0	2.5	90.5	7.5	61.4	2.23	8.49	10.39	47	1.01	0.069
STD DS9	Standard	12.71	108.8	130.7	311.7	1880	40.7	7.6	564	2.32	25.9	2.8	116.4	6.8	72.6	2.26	5.57	6.15	40	0.73	0.085
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	0.03	<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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Project: KE
 Report Date: July 09, 2013

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QUALITY CONTROL REPORT

SMI13000062.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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	
Pulp Duplicates																		
1964332	Soil	10.0	67.6	0.38	478.7	0.026	1	0.84	0.009	0.04	0.3	3.5	0.04	<0.02	59	0.2	0.03	3.0
REP 1964332	QC	9.9	65.4	0.39	489.2	0.025	1	0.85	0.009	0.04	0.3	3.4	0.05	<0.02	57	0.1	0.03	2.9
Reference Materials																		
STD DS11	Standard	16.2	57.7	0.81	359.4	0.089	8	1.11	0.070	0.39	3.3	2.9	4.62	0.28	258	2.0	4.30	4.6
STD DS9	Standard	13.8	117.0	0.61	308.5	0.123	3	0.98	0.092	0.40	3.2	2.5	5.25	0.17	184	5.1	4.89	4.6
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
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



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Client: Serengeti Resources
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Submitted By: Dave Moore
Receiving Lab: Canada-Smithers
Received: June 28, 2013
Report Date: July 09, 2013
Page: 1 of 5

CERTIFICATE OF ANALYSIS

SMI13000063.1

CLIENT JOB INFORMATION

Project: SMK
Shipment ID: SMK2013-1
P.O. Number
Number of Samples: 103

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: Serengeti Resources
1700 - 750 W. Pender Street
Vancouver BC V6C 2T8
CANADA

CC: Hilary Clarke

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include procedures like 'Dry at 60C', 'SS80', and '1F02' with corresponding test weights and lab identifiers (SMI, VAN).

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: SMK
 Report Date: July 09, 2013

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CERTIFICATE OF ANALYSIS

SMI13000063.1

Method Analyte	Unit	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1964351	Soil	1.49	12.99	16.56	40.9	50	25.3	8.1	117	2.12	3.9	0.2	4.6	0.4	21.3	0.19	0.44	0.19	71	0.28	0.012
1964352	Soil	23.85	62.48	22.05	28.6	119	38.0	17.8	1127	3.26	1.5	9.0	2.5	0.2	64.9	0.19	0.16	0.23	87	0.98	0.059
1964353	Soil	8.43	14.17	22.42	23.7	79	30.8	11.1	166	2.97	3.9	0.4	2.3	0.3	20.6	0.10	0.30	0.23	90	0.27	0.019
1964354	Soil	1.64	7.92	21.40	36.8	159	29.6	12.8	150	4.27	2.2	<0.1	0.9	0.2	15.2	0.09	0.16	0.39	169	0.24	0.031
1964355	Soil	2.78	18.88	11.16	60.2	101	39.0	12.7	360	4.12	4.9	0.3	1.5	0.6	13.9	0.23	0.46	0.20	116	0.20	0.089
1964356	Soil	6.09	27.89	24.83	75.1	272	41.2	21.4	1054	3.52	2.1	24.8	1.9	9.2	38.0	0.22	0.33	0.36	94	0.44	0.043
1964357	Soil	2.35	6.93	21.10	26.6	55	12.5	4.9	180	1.62	1.1	6.4	0.8	15.5	13.0	0.04	0.23	0.22	54	0.15	0.016
1964358	Soil	2.89	4.04	9.26	185.3	56	371.4	160.2	4403	12.04	0.9	0.3	<0.2	0.8	6.1	0.35	0.08	0.08	36	0.07	0.117
1964359	Soil	0.70	2.84	9.03	18.3	47	10.8	5.0	93	1.97	1.1	1.2	1.1	7.7	12.3	0.04	0.27	0.13	81	0.13	0.020
1964360	Soil	1.41	3.68	12.14	20.4	120	13.5	7.0	130	3.60	1.7	1.1	0.5	6.6	10.9	0.06	0.35	0.16	157	0.12	0.029
1964361	Soil	1.67	8.62	10.09	25.1	231	12.3	4.5	110	3.61	4.8	0.9	1.7	4.6	6.5	0.07	0.59	0.22	85	0.09	0.061
1964362	Soil	0.87	8.29	5.79	25.1	61	12.3	6.4	110	2.96	2.1	1.2	48.0	5.8	10.0	0.05	0.51	0.15	81	0.10	0.068
1964363	Soil	1.00	4.13	12.48	16.0	94	5.1	2.7	112	2.19	3.3	1.1	0.8	6.5	7.4	0.06	0.49	0.17	62	0.06	0.066
1964364	Soil	0.57	5.06	12.74	22.7	59	12.6	4.7	89	1.90	1.6	0.3	2.1	1.7	11.0	0.05	0.15	0.16	62	0.15	0.026
1964365	Soil	0.93	8.56	8.32	30.0	82	18.2	6.5	148	1.76	1.5	0.3	2.2	1.3	14.5	0.09	0.22	0.14	43	0.19	0.044
1964366	Soil	1.32	21.20	10.24	33.3	27	32.6	10.0	360	2.12	4.6	0.9	3.5	2.7	22.2	0.06	0.57	0.19	49	0.30	0.048
1964367	Soil	0.92	10.29	6.67	35.6	58	23.2	6.9	120	2.34	3.1	0.5	2.1	3.0	10.8	0.09	0.36	0.12	53	0.11	0.050
1964368	Soil	1.04	12.46	8.84	39.6	81	26.3	5.6	148	1.76	3.3	0.4	1.4	1.3	14.3	0.12	0.38	0.19	56	0.21	0.029
1964369	Soil	1.29	5.34	8.48	29.3	32	14.4	4.4	113	1.70	1.8	0.4	2.9	2.2	20.4	0.05	0.21	0.12	70	0.23	0.015
1964370	Soil	3.89	6.55	12.53	53.0	56	18.0	7.6	133	3.11	2.6	0.5	1.2	3.1	18.6	0.06	0.29	0.25	202	0.17	0.024
1964371	Soil	0.93	4.10	8.26	57.5	253	11.0	7.4	374	3.12	0.8	1.5	0.8	10.0	19.4	0.16	0.28	0.16	94	0.28	0.036
1964372	Soil	2.53	11.41	10.45	33.4	203	15.9	7.1	178	4.61	3.3	0.6	2.6	3.9	14.2	0.10	0.48	0.52	154	0.17	0.150
1964373	Soil	3.57	10.93	10.22	40.3	61	15.9	9.6	237	6.71	5.5	0.8	0.7	4.5	11.1	0.14	0.42	0.27	160	0.13	0.169
1964374	Soil	0.89	4.66	5.89	23.8	74	9.7	4.3	138	2.61	2.0	0.9	285.7	6.0	8.2	0.11	0.29	0.17	73	0.10	0.080
1964375	Soil	0.64	12.31	15.14	44.0	207	47.2	15.2	178	3.74	3.6	0.2	1.1	0.3	22.0	0.13	0.33	0.30	114	0.31	0.043
1964376	Soil	1.02	30.03	7.35	59.2	157	21.5	13.1	256	3.77	3.6	0.1	1.1	0.6	36.8	0.18	0.39	0.08	106	0.39	0.049
1964377	Soil	0.96	7.78	15.89	45.8	201	25.2	8.9	137	2.75	3.6	0.1	1.2	0.7	22.4	0.15	0.35	0.34	95	0.29	0.036
1964378	Soil	1.41	30.25	10.70	45.5	103	42.3	12.8	324	2.63	4.9	1.5	2.1	1.5	81.8	0.13	0.64	0.14	56	0.59	0.028
1964379	Soil	0.74	14.30	7.40	39.2	104	20.5	7.6	198	1.83	2.6	0.3	3.2	0.6	49.9	0.13	0.27	0.10	47	0.39	0.020
1964380	Soil	0.74	13.53	8.04	57.2	54	15.8	6.9	155	2.09	5.6	0.3	1.0	1.1	48.5	0.17	0.34	0.12	53	0.28	0.062

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Project: SMK
 Report Date: July 09, 2013

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppb	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
1964351	Soil	3.2	90.1	0.47	128.3	0.050	1	0.73	0.009	0.03	0.1	2.8	0.04	<0.02	135	<0.1	<0.02	3.6
1964352	Soil	2.8	112.3	0.78	270.4	0.034	2	0.87	0.014	0.05	<0.1	6.0	0.11	0.06	83	0.8	0.03	3.6
1964353	Soil	3.0	112.7	0.47	182.4	0.047	1	0.86	0.009	0.03	<0.1	3.6	0.06	<0.02	131	<0.1	0.02	3.8
1964354	Soil	1.0	159.6	0.87	40.8	0.176	<1	0.79	0.015	0.02	<0.1	2.9	<0.02	<0.02	13	<0.1	0.04	6.0
1964355	Soil	2.3	142.8	0.54	84.1	0.097	<1	1.06	0.007	0.04	0.1	3.4	0.05	<0.02	554	0.1	0.03	6.1
1964356	Soil	50.4	119.8	1.06	271.2	0.055	1	1.53	0.009	0.07	0.3	8.9	0.09	<0.02	46	<0.1	0.05	5.7
1964357	Soil	28.9	63.0	0.35	79.8	0.065	<1	0.77	0.009	0.03	0.3	2.8	0.08	<0.02	30	<0.1	0.02	4.1
1964358	Soil	1.9	328.5	8.02	104.4	0.023	3	1.28	0.002	0.02	0.3	2.7	0.07	<0.02	32	<0.1	0.02	3.7
1964359	Soil	4.4	54.5	0.27	22.1	0.106	<1	0.46	0.012	0.02	0.4	1.8	0.03	<0.02	14	<0.1	0.02	4.6
1964360	Soil	3.5	72.9	0.19	38.5	0.168	<1	0.40	0.011	0.02	0.3	1.7	0.03	<0.02	21	<0.1	0.02	5.3
1964361	Soil	3.8	61.4	0.21	29.9	0.032	<1	1.01	0.003	0.02	0.5	1.9	0.03	<0.02	71	<0.1	0.04	4.4
1964362	Soil	4.4	60.7	0.28	43.3	0.023	<1	1.03	0.006	0.03	0.5	1.9	0.04	<0.02	35	<0.1	<0.02	4.7
1964363	Soil	5.6	36.1	0.10	19.9	0.028	<1	0.79	0.005	0.02	0.5	1.4	0.04	<0.02	62	<0.1	<0.02	4.6
1964364	Soil	4.5	67.9	0.40	54.2	0.063	<1	0.77	0.009	0.02	0.2	2.4	0.05	<0.02	62	<0.1	<0.02	4.3
1964365	Soil	4.9	54.7	0.49	73.6	0.034	<1	1.07	0.007	0.03	0.3	2.2	0.05	<0.02	46	<0.1	<0.02	3.9
1964366	Soil	6.7	78.8	0.60	162.2	0.051	1	0.78	0.009	0.06	0.4	4.0	0.04	<0.02	163	<0.1	0.03	3.0
1964367	Soil	4.4	89.2	0.43	71.1	0.046	<1	1.21	0.007	0.02	0.3	3.4	0.05	<0.02	110	<0.1	0.03	3.9
1964368	Soil	5.0	58.9	0.55	164.7	0.050	<1	1.18	0.007	0.04	0.2	2.6	0.08	<0.02	778	<0.1	0.03	5.2
1964369	Soil	4.7	54.9	0.45	246.0	0.058	<1	0.77	0.009	0.02	0.3	2.2	0.03	<0.02	199	<0.1	<0.02	3.9
1964370	Soil	4.8	90.6	0.49	130.1	0.104	<1	0.99	0.009	0.03	0.2	2.6	0.05	<0.02	388	<0.1	0.04	9.8
1964371	Soil	10.6	41.6	0.61	156.4	0.145	<1	1.28	0.009	0.08	0.3	3.4	0.11	<0.02	58	<0.1	0.03	11.6
1964372	Soil	3.7	100.7	0.32	96.6	0.085	<1	1.05	0.012	0.03	1.2	2.3	0.05	<0.02	100	0.1	0.05	8.8
1964373	Soil	4.4	129.4	0.35	82.5	0.032	<1	1.89	0.005	0.03	0.5	3.3	0.08	<0.02	49	0.2	0.03	7.7
1964374	Soil	4.6	52.2	0.20	44.1	0.044	<1	0.89	0.007	0.03	0.4	1.6	0.04	<0.02	26	<0.1	0.02	6.5
1964375	Soil	2.0	159.6	0.97	168.2	0.076	<1	0.92	0.010	0.03	<0.1	3.2	0.04	<0.02	341	<0.1	0.02	5.3
1964376	Soil	2.9	59.4	0.92	109.3	0.120	<1	1.46	0.055	0.06	<0.1	3.1	0.03	<0.02	183	<0.1	<0.02	4.8
1964377	Soil	3.6	110.9	0.57	106.5	0.086	<1	0.69	0.008	0.03	<0.1	2.5	0.04	<0.02	95	<0.1	0.04	5.2
1964378	Soil	7.6	94.4	0.79	284.0	0.044	<1	1.41	0.009	0.06	<0.1	8.1	0.07	<0.02	462	0.2	0.03	3.7
1964379	Soil	5.9	58.5	0.60	214.0	0.033	<1	1.10	0.010	0.04	<0.1	3.5	0.07	<0.02	140	<0.1	0.03	3.8
1964380	Soil	6.4	50.8	0.55	194.3	0.023	<1	1.28	0.006	0.04	0.2	3.9	0.06	<0.02	85	<0.1	<0.02	4.4

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1964381	Soil	11.65	32.47	16.18	51.7	225	24.7	11.3	568	3.35	7.3	9.7	2.5	1.2	70.9	0.34	0.36	0.54	61	0.64	0.051
1964382	Soil	21.58	28.47	13.72	41.6	165	21.6	11.1	395	2.47	4.8	2.8	5.8	1.0	64.0	0.22	0.43	0.64	58	0.43	0.046
1964383	Soil	8.14	14.84	11.64	26.7	102	14.4	6.3	198	2.03	4.6	1.7	3.0	1.1	35.8	0.12	0.39	0.54	51	0.35	0.047
1964384	Soil	41.55	23.72	17.17	52.2	210	23.6	12.4	472	2.70	4.7	2.7	0.6	0.7	62.8	0.31	0.45	0.70	62	0.61	0.036
1964385	Soil	17.70	35.57	16.90	46.0	316	21.9	8.7	324	2.60	5.4	2.6	2.1	1.5	39.8	0.39	0.45	0.94	65	0.40	0.037
1964386	Soil	3.52	8.87	7.35	30.3	183	9.7	4.8	144	1.40	2.2	0.3	1.7	0.9	44.0	0.13	0.28	0.39	44	0.23	0.036
1964387	Soil	1.81	17.12	8.82	33.0	151	15.7	6.4	150	2.03	3.8	1.3	0.9	1.5	24.7	0.13	0.35	0.42	59	0.27	0.041
1964388	Soil	5.37	91.27	49.10	102.5	657	77.1	24.9	2542	6.47	16.5	7.5	2.0	12.3	29.2	0.54	1.43	0.96	153	0.46	0.079
1964389	Soil	0.81	9.17	9.86	37.6	82	26.2	10.5	308	4.09	4.2	0.3	1.3	2.0	12.9	0.10	0.32	0.14	125	0.18	0.094
1964390	Soil	0.88	13.71	8.12	42.4	45	34.8	13.8	200	3.40	3.1	0.1	3.4	0.4	25.1	0.11	0.25	0.10	102	0.43	0.038
1964391	Soil	0.95	11.13	5.30	43.9	80	29.7	8.6	361	2.83	3.9	0.2	<0.2	0.7	19.6	0.22	0.56	0.11	71	0.25	0.058
1964392	Soil	0.64	13.10	6.97	52.3	52	16.3	6.7	122	2.53	5.4	0.2	<0.2	0.8	44.2	0.15	0.35	0.12	62	0.31	0.055
1964393	Soil	0.89	12.36	8.68	61.8	137	16.6	6.3	132	3.41	6.9	0.3	<0.2	0.9	27.7	0.26	0.45	0.13	77	0.21	0.164
1964394	Soil	0.77	15.01	7.06	46.0	283	15.4	5.8	142	1.62	3.2	0.5	<0.2	0.2	50.9	0.12	0.22	0.16	45	0.31	0.033
1964395	Soil	3.28	12.87	5.92	47.5	113	28.0	7.9	169	1.86	4.0	0.3	1.9	0.8	36.3	0.14	0.56	0.36	42	0.30	0.061
1964412	Soil	1.24	49.47	15.61	85.3	134	61.9	17.6	342	3.68	7.2	0.5	<0.2	2.8	18.1	0.15	0.93	0.18	81	0.40	0.075
1964413	Soil	3.63	34.40	11.85	185.1	350	33.7	11.3	260	4.68	16.0	0.5	<0.2	2.5	6.3	0.36	1.89	0.22	65	0.07	0.183
1964414	Soil	3.18	35.57	14.10	72.1	332	24.4	7.6	178	4.21	25.8	0.5	1.3	3.7	7.5	0.31	3.76	0.22	71	0.09	0.145
1964415	Soil	3.71	41.10	17.15	100.6	281	27.1	8.1	245	4.01	28.8	0.5	4.3	2.7	8.2	0.39	4.93	0.26	49	0.13	0.236
1964416	Soil	5.20	50.30	13.35	102.7	218	18.3	6.9	203	5.28	13.7	0.5	<0.2	2.7	5.0	0.27	2.32	0.30	50	0.04	0.255
1964417	Soil	3.32	30.38	10.79	56.3	56	19.8	6.0	172	2.88	10.7	0.5	<0.2	3.4	6.1	0.14	1.98	0.22	48	0.07	0.088
1964418	Soil	1.34	15.42	9.13	59.3	111	28.0	9.1	261	3.12	6.2	0.6	4.8	3.0	10.9	0.19	0.66	0.16	75	0.18	0.139
1964419	Soil	1.10	6.41	8.03	50.1	67	16.7	6.8	111	2.87	4.1	0.3	<0.2	1.6	12.5	0.07	0.83	0.13	72	0.15	0.016
1964420	Soil	1.06	8.98	8.32	34.8	56	19.0	6.2	147	2.19	2.1	0.5	1.3	1.2	13.5	0.06	0.23	0.17	66	0.17	0.033
1964421	Soil	1.01	8.24	8.41	42.2	257	17.7	6.5	182	3.50	3.7	0.5	3.5	2.6	9.3	0.18	0.53	0.12	95	0.12	0.134
1964422	Soil	1.02	13.23	7.19	42.0	121	24.0	8.9	304	3.66	4.4	0.7	9.3	3.1	9.0	0.10	0.42	0.14	78	0.16	0.229
1964423	Soil	0.77	12.83	7.34	46.6	162	30.7	8.0	153	2.81	2.5	0.4	<0.2	1.9	7.8	0.10	0.25	0.12	62	0.13	0.160
1964424	Soil	0.94	4.72	5.47	17.5	204	5.7	2.3	64	2.38	1.9	0.4	<0.2	2.1	7.6	0.04	0.21	0.10	55	0.08	0.138
1964425	Soil	1.16	8.86	5.14	22.6	54	17.9	5.8	116	2.14	2.7	0.4	<0.2	2.2	10.6	0.07	0.31	0.11	57	0.14	0.031
1964426	Soil	1.01	8.83	5.71	29.6	109	21.9	6.6	116	2.73	3.0	0.5	<0.2	2.4	7.0	0.10	0.38	0.13	67	0.11	0.077

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	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
1964381	Soil	9.1	90.8	0.61	370.6	0.025	<1	1.14	0.009	0.07	0.3	5.2	0.06	<0.02	156	0.2	0.07	4.1
1964382	Soil	7.8	67.1	0.58	314.4	0.025	<1	1.06	0.010	0.06	0.4	4.4	0.05	<0.02	202	0.1	0.06	3.8
1964383	Soil	6.5	45.3	0.48	251.8	0.031	<1	0.78	0.009	0.05	0.3	2.8	0.05	<0.02	189	<0.1	0.05	3.1
1964384	Soil	7.9	75.8	0.69	375.1	0.022	<1	1.14	0.009	0.06	0.3	4.0	0.06	0.02	141	<0.1	0.05	4.5
1964385	Soil	8.4	66.5	0.58	496.1	0.029	<1	1.18	0.009	0.08	0.4	4.9	0.08	<0.02	141	0.2	0.07	4.4
1964386	Soil	5.4	31.9	0.39	231.0	0.036	<1	0.86	0.008	0.04	0.4	1.9	0.05	<0.02	51	<0.1	<0.02	3.5
1964387	Soil	9.1	61.5	0.54	179.4	0.045	1	0.91	0.011	0.04	0.3	2.7	0.06	<0.02	172	<0.1	<0.02	3.6
1964388	Soil	53.9	201.8	0.97	572.6	0.019	1	3.13	0.005	0.11	0.4	13.2	0.32	0.02	199	0.3	0.09	9.3
1964389	Soil	2.6	127.4	0.53	41.0	0.079	<1	0.86	0.013	0.03	0.2	2.2	0.03	<0.02	118	<0.1	<0.02	5.6
1964390	Soil	2.1	121.3	1.03	137.9	0.104	<1	1.13	0.010	0.04	<0.1	3.3	0.04	<0.02	424	<0.1	<0.02	4.2
1964391	Soil	4.2	94.5	0.50	93.7	0.059	<1	0.69	0.007	0.05	<0.1	2.2	0.05	<0.02	426	<0.1	<0.02	4.2
1964392	Soil	4.5	69.3	0.48	150.8	0.025	<1	1.14	0.006	0.03	<0.1	3.2	0.04	<0.02	166	<0.1	0.02	3.8
1964393	Soil	3.6	76.8	0.35	93.9	0.022	<1	1.01	0.006	0.03	0.2	2.8	0.03	<0.02	136	<0.1	<0.02	3.7
1964394	Soil	4.9	54.4	0.49	204.0	0.018	<1	1.17	0.007	0.05	<0.1	2.9	0.06	<0.02	197	<0.1	0.04	4.3
1964395	Soil	6.5	51.1	0.78	136.7	0.021	<1	0.91	0.007	0.05	0.4	2.2	0.06	<0.02	193	<0.1	<0.02	3.5
1964412	Soil	9.2	84.2	1.16	148.3	0.049	1	1.91	0.012	0.05	0.1	3.1	0.08	<0.02	86	<0.1	0.03	5.9
1964413	Soil	10.0	52.2	0.50	197.8	0.007	2	2.54	0.005	0.05	<0.1	3.1	0.13	<0.02	132	0.3	0.07	7.4
1964414	Soil	9.2	56.6	0.45	105.9	0.013	<1	1.84	0.006	0.05	0.2	3.5	0.13	<0.02	92	0.3	0.06	5.3
1964415	Soil	12.6	36.4	0.42	113.0	0.005	1	1.88	0.005	0.04	<0.1	3.2	0.16	<0.02	160	0.6	0.08	5.5
1964416	Soil	10.9	22.7	0.32	112.9	0.002	<1	2.05	0.004	0.05	0.1	3.1	0.14	<0.02	118	0.7	0.12	6.1
1964417	Soil	11.1	42.9	0.41	108.4	0.009	1	1.57	0.004	0.03	0.1	2.9	0.13	<0.02	74	0.2	0.09	5.4
1964418	Soil	4.1	95.4	0.49	102.3	0.046	<1	1.05	0.011	0.04	0.3	3.0	0.05	<0.02	201	<0.1	0.02	3.9
1964419	Soil	3.5	92.8	0.50	70.4	0.064	<1	1.10	0.013	0.02	0.2	2.4	0.05	<0.02	133	<0.1	<0.02	4.7
1964420	Soil	4.9	78.8	0.35	143.6	0.031	<1	1.03	0.009	0.02	0.3	2.4	0.05	<0.02	220	0.1	<0.02	3.8
1964421	Soil	4.1	89.5	0.32	58.7	0.052	<1	1.54	0.008	0.02	0.4	3.3	0.03	<0.02	110	0.1	<0.02	6.1
1964422	Soil	4.4	98.7	0.35	59.2	0.026	<1	1.94	0.006	0.02	0.4	3.6	0.05	<0.02	115	0.2	0.02	4.4
1964423	Soil	3.6	92.9	0.48	58.5	0.029	<1	1.68	0.006	0.03	0.2	3.0	0.05	<0.02	617	<0.1	<0.02	3.7
1964424	Soil	4.1	44.3	0.11	29.1	0.029	<1	1.28	0.006	0.01	0.2	1.9	0.04	<0.02	54	0.2	<0.02	5.3
1964425	Soil	3.9	63.7	0.31	97.8	0.029	<1	1.12	0.007	0.02	0.3	2.2	0.04	<0.02	227	<0.1	<0.02	3.6
1964426	Soil	3.4	82.1	0.28	41.9	0.030	<1	0.96	0.006	0.02	0.3	2.4	0.03	<0.02	207	0.1	0.04	3.1

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Project: SMK
 Report Date: July 09, 2013

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CERTIFICATE OF ANALYSIS

SMI13000063.1

Method Analyte	Unit	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		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
1964428	Soil	1.10	16.13	6.42	93.0	143	36.0	8.5	182	2.22	6.7	0.2	1.8	0.8	11.3	0.28	0.88	0.11	43	0.21	0.045
1964430	Soil	30.13	42.53	20.45	45.3	491	59.9	18.1	2058	3.45	4.7	22.7	<0.2	0.4	58.0	0.52	0.43	0.25	74	0.76	0.093
1964431	Soil	1.13	13.31	11.51	58.6	145	36.3	8.5	138	2.32	5.7	0.3	<0.2	0.4	13.7	0.18	0.87	0.12	56	0.19	0.035
1964432	Soil	1.09	12.19	11.77	47.5	155	27.2	8.5	165	3.63	5.7	0.2	<0.2	0.7	10.4	0.18	0.43	0.14	82	0.16	0.073
1964433	Soil	1.10	8.88	10.66	38.4	165	17.8	15.0	347	1.76	4.2	0.2	<0.2	1.1	12.1	0.08	1.10	0.18	56	0.16	0.029
1964434	Soil	0.85	16.48	13.28	48.3	57	26.1	10.5	196	3.29	5.0	0.3	<0.2	0.8	15.1	0.11	0.58	0.13	92	0.24	0.026
1964435	Soil	0.17	2.83	13.07	16.5	55	8.7	3.1	58	0.73	1.8	0.1	<0.2	0.3	12.2	0.05	0.33	0.14	31	0.16	0.012
1964436	Soil	0.65	8.45	12.90	29.7	73	19.1	6.3	190	2.06	2.5	0.2	0.3	0.5	12.8	0.07	0.22	0.16	71	0.19	0.027
1964437	Soil	0.48	8.91	20.65	73.2	136	33.2	22.7	303	4.85	2.0	<0.1	<0.2	0.3	54.8	0.16	0.11	0.21	153	0.79	0.197
1964438	Soil	6.88	14.89	14.04	40.7	121	23.9	8.2	145	3.82	3.7	5.0	<0.2	1.9	15.6	0.06	0.40	0.18	100	0.21	0.028
1964439	Soil	1.64	2.44	4.74	53.2	77	55.9	16.7	215	3.40	0.6	<0.1	<0.2	0.3	9.7	0.07	0.09	0.09	145	0.36	0.025
1964440	Soil	1.70	7.98	13.94	36.4	30	32.1	14.2	198	3.07	1.2	1.3	<0.2	1.6	36.1	0.06	0.11	0.38	97	0.38	0.037
1964441	Soil	1.07	5.94	8.74	44.5	45	38.1	18.3	190	4.63	0.9	0.5	2.3	0.9	23.5	0.09	0.11	0.18	170	0.39	0.035
1964442	Soil	5.75	6.87	13.01	44.0	118	33.3	14.9	156	6.09	0.9	2.9	1.4	4.3	24.0	0.07	0.14	0.18	222	0.39	0.020
1964443	Soil	0.88	4.49	8.24	29.3	49	23.9	10.4	240	3.71	1.0	1.5	1.1	5.2	23.6	0.08	0.22	0.17	117	0.25	0.017
1964444	Soil	2.35	14.37	15.39	46.0	120	30.0	14.5	391	4.23	4.6	5.3	1.6	7.3	25.4	0.08	0.84	0.39	123	0.32	0.031
1964445	Soil	10.54	65.10	90.32	129.0	600	57.3	24.7	2674	6.44	9.5	30.4	3.5	14.2	55.2	0.49	1.41	0.85	141	0.74	0.121
1964446	Soil	23.82	66.40	93.08	107.4	420	55.9	26.8	2254	5.70	58.3	36.0	8.3	32.3	28.6	0.36	1.87	0.98	124	0.43	0.078
1964447	Soil	0.82	14.36	5.70	25.9	105	12.9	13.3	159	4.12	1.0	0.3	1.4	1.5	26.8	0.10	0.20	0.10	167	0.44	0.016
1964019	Soil	1.28	16.17	7.15	68.9	224	25.2	6.9	188	2.17	3.5	0.3	3.0	1.8	14.9	0.17	0.41	0.14	37	0.15	0.088
1964020	Soil	0.76	14.80	12.17	47.5	107	24.0	9.7	242	2.27	4.6	0.3	2.4	1.1	23.1	0.19	0.39	0.16	56	0.29	0.054
1964021	Soil	0.86	15.10	12.18	57.0	156	26.1	8.6	157	2.63	4.2	0.2	1.4	1.1	23.7	0.25	0.41	0.17	62	0.25	0.091
1964023	Soil	0.66	10.88	7.37	51.0	41	18.1	7.1	167	1.94	3.4	0.2	1.4	1.1	31.3	0.11	0.32	0.12	43	0.22	0.067
1964031	Soil	2.46	17.58	6.32	46.4	37	14.6	5.1	122	1.94	4.6	0.3	2.6	1.1	19.4	0.21	0.81	0.28	44	0.24	0.083
1964032	Soil	1.56	11.87	5.76	60.8	57	19.7	7.1	184	1.64	2.6	0.3	2.9	1.1	27.5	0.12	0.32	0.11	42	0.30	0.040
1964033	Soil	13.36	46.12	7.21	48.1	156	29.5	9.2	523	2.19	4.6	5.0	3.9	1.6	38.5	0.20	1.01	0.14	46	0.41	0.058
1964034	Soil	2.28	15.98	7.52	57.4	95	18.8	6.1	183	1.93	3.2	0.4	1.2	1.0	34.5	0.13	0.41	0.12	46	0.24	0.037
1964035	Soil	1.36	10.42	6.42	33.1	84	11.2	4.5	257	1.13	1.3	0.3	1.5	0.3	32.2	0.13	0.21	0.13	34	0.29	0.021
1964038	Soil	3.10	13.45	8.75	37.1	128	14.8	7.8	263	1.64	2.5	0.4	1.5	0.6	35.5	0.32	0.47	0.26	49	0.41	0.020
1964039	Soil	1.41	10.18	7.71	56.1	104	17.3	5.6	139	2.30	3.2	0.2	0.7	1.3	14.5	0.10	0.42	0.20	54	0.14	0.051

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppb	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
1964428	Soil	6.5	77.9	0.48	153.4	0.030	<1	1.10	0.007	0.03	<0.1	2.7	0.08	<0.02	183	0.1	<0.02	3.5
1964430	Soil	8.6	137.6	0.72	452.6	0.022	<1	1.27	0.014	0.05	<0.1	7.9	0.14	0.06	243	0.5	<0.02	3.7
1964431	Soil	3.9	85.3	0.54	114.4	0.049	<1	1.05	0.008	0.03	<0.1	2.5	0.06	<0.02	206	<0.1	<0.02	3.7
1964432	Soil	3.1	125.5	0.51	78.4	0.057	<1	1.21	0.009	0.03	0.1	3.0	0.04	<0.02	170	0.1	0.03	3.6
1964433	Soil	9.7	65.3	0.50	81.4	0.056	<1	0.92	0.009	0.04	<0.1	2.4	0.08	<0.02	78	<0.1	<0.02	4.4
1964434	Soil	3.6	114.2	0.76	62.6	0.097	<1	1.45	0.022	0.04	0.1	4.4	0.06	<0.02	157	<0.1	0.03	4.4
1964435	Soil	2.8	41.4	0.30	57.8	0.067	<1	0.50	0.009	0.02	<0.1	1.6	0.03	<0.02	72	<0.1	<0.02	2.9
1964436	Soil	3.3	92.3	0.55	75.6	0.072	<1	0.88	0.011	0.03	<0.1	2.8	0.06	<0.02	97	<0.1	<0.02	4.1
1964437	Soil	1.2	131.0	1.53	51.5	0.119	<1	1.60	0.047	0.03	<0.1	3.8	0.02	<0.02	745	<0.1	<0.02	5.3
1964438	Soil	11.3	129.2	0.51	137.5	0.093	<1	1.37	0.009	0.02	0.1	3.8	0.05	<0.02	73	<0.1	0.03	5.4
1964439	Soil	0.7	376.6	2.26	24.8	0.173	<1	1.28	0.006	0.01	<0.1	3.5	<0.02	<0.02	10	<0.1	0.08	6.9
1964440	Soil	14.3	146.5	1.04	80.9	0.116	<1	0.88	0.020	0.02	0.1	3.1	0.02	<0.02	11	<0.1	0.03	5.1
1964441	Soil	2.4	178.9	0.94	65.4	0.167	1	0.91	0.020	0.02	<0.1	4.1	0.03	<0.02	14	<0.1	0.04	6.8
1964442	Soil	15.8	167.1	0.76	151.7	0.222	1	0.98	0.026	0.03	0.2	4.6	0.04	<0.02	21	<0.1	0.03	7.8
1964443	Soil	11.1	123.4	0.47	82.4	0.080	<1	0.55	0.015	0.03	0.3	2.6	0.03	<0.02	14	<0.1	<0.02	3.3
1964444	Soil	7.6	155.3	0.70	125.5	0.076	1	0.97	0.021	0.05	0.5	6.0	0.05	<0.02	40	<0.1	<0.02	5.5
1964445	Soil	69.3	207.3	1.16	744.0	0.055	1	3.03	0.009	0.17	0.7	14.0	0.18	0.05	145	0.4	0.08	11.8
1964446	Soil	52.2	317.9	1.19	695.6	0.034	3	3.03	0.007	0.17	0.9	22.8	0.28	0.02	968	0.2	0.09	10.2
1964447	Soil	1.4	41.4	0.71	38.6	0.306	<1	0.93	0.022	0.05	<0.1	2.2	<0.02	<0.02	22	0.2	0.03	5.5
1964019	Soil	8.6	52.8	0.50	121.4	0.031	2	1.37	0.004	0.04	0.1	2.6	0.06	<0.02	150	0.2	<0.02	3.9
1964020	Soil	5.5	77.1	0.51	132.7	0.039	1	0.93	0.007	0.04	<0.1	3.0	0.06	<0.02	278	<0.1	<0.02	3.3
1964021	Soil	5.3	74.8	0.63	133.5	0.040	1	1.19	0.008	0.05	<0.1	2.7	0.05	<0.02	143	0.1	0.02	4.3
1964023	Soil	6.0	63.7	0.48	121.0	0.033	1	1.04	0.006	0.04	<0.1	3.1	0.05	<0.02	126	<0.1	0.02	3.5
1964031	Soil	4.8	44.4	0.27	105.2	0.016	1	0.76	0.006	0.04	0.4	2.1	0.04	<0.02	157	<0.1	0.05	3.4
1964032	Soil	6.9	61.8	0.54	171.4	0.035	1	0.98	0.008	0.05	<0.1	2.8	0.05	<0.02	211	<0.1	<0.02	3.8
1964033	Soil	9.3	71.1	0.61	165.8	0.041	1	0.96	0.009	0.06	0.2	5.4	0.06	<0.02	211	<0.1	<0.02	3.2
1964034	Soil	8.0	49.8	0.53	159.0	0.040	<1	1.14	0.007	0.05	<0.1	2.8	0.06	<0.02	155	<0.1	<0.02	4.0
1964035	Soil	6.8	34.5	0.33	182.0	0.032	1	0.79	0.008	0.05	<0.1	1.8	0.05	<0.02	112	<0.1	<0.02	3.3
1964038	Soil	6.2	50.6	0.45	253.3	0.032	1	0.89	0.009	0.05	0.2	2.7	0.06	<0.02	79	0.1	0.02	3.6
1964039	Soil	6.3	62.9	0.36	71.9	0.051	<1	0.88	0.006	0.04	0.2	2.0	0.04	<0.02	46	0.1	<0.02	4.1



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CERTIFICATE OF ANALYSIS

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Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
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	
1964040	Soil	2.73	39.47	13.08	56.5	313	36.4	11.2	540	2.84	3.6	1.3	1.3	1.8	35.2	0.50	0.43	0.26	58	0.56	0.041
1964042	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1964043	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1964346	Soil	0.92	16.58	17.53	70.4	170	31.2	10.9	203	2.92	4.5	0.2	1.1	1.3	14.8	0.13	0.54	0.17	60	0.19	0.096
1964347	Soil	0.77	19.27	10.43	34.2	78	35.5	10.7	308	2.43	4.9	0.4	1.9	1.2	25.5	0.10	0.43	0.14	55	0.32	0.021
1964348	Soil	0.83	14.75	10.29	69.9	117	34.8	10.9	247	2.73	3.3	0.2	0.7	1.0	17.1	0.11	0.41	0.14	56	0.20	0.097
1964349	Soil	1.07	15.49	12.00	96.2	208	44.4	14.9	256	3.30	4.3	0.2	1.0	1.3	19.7	0.16	0.43	0.16	72	0.27	0.064
1964466	Soil	1.13	16.90	14.20	99.8	268	40.0	12.6	232	3.52	3.2	0.2	0.6	0.9	10.8	0.19	0.46	0.17	86	0.16	0.110
1964467	Soil	21.72	16.89	7.44	34.3	67	17.9	6.5	302	1.96	4.0	1.0	2.2	1.2	34.6	0.14	0.51	0.27	43	0.32	0.018
1964468	Soil	1.04	16.34	7.41	44.8	88	22.0	8.8	294	1.95	2.9	0.3	4.1	0.6	22.1	0.08	0.33	0.13	45	0.23	0.049
1964471	Soil	8.51	10.44	6.52	28.3	138	14.7	6.5	311	1.86	3.5	0.8	0.8	0.8	27.1	0.14	0.41	0.24	45	0.21	0.019
1964472	Soil	1.18	10.21	5.27	32.1	44	17.6	7.9	231	1.53	2.1	0.4	3.2	0.8	24.6	0.10	0.26	0.09	36	0.28	0.034
1964473	Soil	2.19	20.82	9.15	56.9	152	28.9	9.6	176	3.66	5.8	0.3	1.6	1.3	17.6	0.19	1.02	0.30	85	0.22	0.121



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CERTIFICATE OF ANALYSIS

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	Method	1F15																	
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
			ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
1964040	Soil	8.7	74.6	0.60	577.5	0.040	1	1.41	0.008	0.08	0.1	5.9	0.08	<0.02	42	0.3	0.02	5.4	
1964042	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1964043	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1964346	Soil	7.1	97.2	0.64	117.6	0.048	1	1.36	0.006	0.04	<0.1	3.5	0.06	<0.02	275	<0.1	0.04	4.8	
1964347	Soil	6.1	85.9	0.64	170.0	0.056	1	0.91	0.009	0.05	0.1	3.7	0.05	<0.02	359	0.1	0.03	3.2	
1964348	Soil	5.6	100.0	0.79	100.6	0.044	1	1.28	0.007	0.04	<0.1	2.9	0.06	<0.02	199	0.2	0.02	4.3	
1964349	Soil	7.2	84.3	1.05	144.9	0.065	1	1.46	0.008	0.04	0.1	3.8	0.05	<0.02	84	<0.1	0.02	5.0	
1964466	Soil	4.5	123.5	0.64	83.9	0.065	1	1.38	0.008	0.03	<0.1	3.1	0.06	<0.02	947	<0.1	0.04	5.2	
1964467	Soil	9.3	49.1	0.50	255.1	0.036	<1	1.02	0.007	0.06	0.2	2.7	0.07	<0.02	110	<0.1	0.03	3.7	
1964468	Soil	8.2	55.1	0.51	178.6	0.039	1	1.13	0.007	0.06	<0.1	2.8	0.07	<0.02	191	0.1	<0.02	4.4	
1964471	Soil	5.3	48.1	0.35	174.6	0.031	1	0.85	0.006	0.04	0.2	2.3	0.05	<0.02	183	<0.1	0.05	3.2	
1964472	Soil	6.8	47.3	0.46	126.1	0.041	<1	0.77	0.008	0.04	<0.1	2.0	0.04	<0.02	181	<0.1	0.02	2.7	
1964473	Soil	4.1	99.2	0.38	78.3	0.027	1	0.99	0.008	0.03	0.7	2.6	0.04	<0.02	181	0.2	0.04	3.0	



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Project: SMK
 Report Date: July 09, 2013

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Part: 1 of 1

QUALITY CONTROL REPORT

SMI13000063.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
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																					
1964378	Soil	1.41	30.25	10.70	45.5	103	42.3	12.8	324	2.63	4.9	1.5	2.1	1.5	81.8	0.13	0.64	0.14	56	0.59	0.028
REP 1964378	QC	1.37	30.81	10.95	44.8	112	42.5	13.0	319	2.68	5.1	1.6	3.7	1.5	85.6	0.14	0.65	0.14	58	0.60	0.028
1964432	Soil	1.09	12.19	11.77	47.5	155	27.2	8.5	165	3.63	5.7	0.2	<0.2	0.7	10.4	0.18	0.43	0.14	82	0.16	0.073
REP 1964432	QC	1.12	11.74	11.78	47.0	148	26.8	8.5	169	3.65	5.9	0.2	<0.2	0.7	10.2	0.17	0.44	0.15	82	0.15	0.075
1964473	Soil	2.19	20.82	9.15	56.9	152	28.9	9.6	176	3.66	5.8	0.3	1.6	1.3	17.6	0.19	1.02	0.30	85	0.22	0.121
REP 1964473	QC	2.39	21.53	9.43	62.1	165	30.1	9.8	184	3.75	6.1	0.3	1.3	1.4	19.0	0.21	1.08	0.32	89	0.23	0.121
Reference Materials																					
STD DS11	Standard	14.15	149.8	140.6	316.4	1802	79.9	13.7	1002	3.10	39.4	2.3	70.8	6.6	58.7	2.10	7.82	10.24	47	1.02	0.076
STD DS11	Standard	14.20	146.9	133.5	329.1	1778	81.1	13.8	972	3.03	38.3	2.2	77.3	6.8	57.5	2.18	8.13	10.29	46	1.00	0.068
STD DS11	Standard	14.04	148.0	139.0	327.3	1836	81.0	14.2	1011	3.09	38.3	2.2	74.3	6.9	58.5	2.15	7.94	10.54	46	1.02	0.073
STD DS9	Standard	13.39	107.6	134.2	304.5	1857	41.2	7.5	597	2.35	23.6	2.6	126.2	6.0	63.5	2.20	5.36	6.19	39	0.71	0.086
STD DS9	Standard	12.88	109.8	129.5	312.0	1788	41.7	7.7	580	2.31	23.8	2.5	114.1	5.9	64.7	2.16	5.47	6.20	37	0.70	0.087
STD DS9	Standard	12.96	108.6	134.8	309.1	1822	42.0	7.6	574	2.33	23.2	2.6	116.1	5.9	62.5	2.12	5.41	6.31	38	0.70	0.084
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	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	0.02	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.04	<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	0.05	<0.1	<2	0.3	0.2	3	<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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Project: SMK
 Report Date: July 09, 2013

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QUALITY CONTROL REPORT

SMI13000063.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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	
Pulp Duplicates																		
1964378	Soil	7.6	94.4	0.79	284.0	0.044	<1	1.41	0.009	0.06	<0.1	8.1	0.07	<0.02	462	0.2	0.03	3.7
REP 1964378	QC	7.9	96.0	0.81	287.5	0.047	1	1.44	0.010	0.07	0.1	7.9	0.07	<0.02	439	0.6	0.04	3.7
1964432	Soil	3.1	125.5	0.51	78.4	0.057	<1	1.21	0.009	0.03	0.1	3.0	0.04	<0.02	170	0.1	0.03	3.6
REP 1964432	QC	3.0	130.0	0.52	75.7	0.057	1	1.22	0.010	0.03	0.1	3.1	0.04	<0.02	194	0.1	0.04	3.5
1964473	Soil	4.1	99.2	0.38	78.3	0.027	1	0.99	0.008	0.03	0.7	2.6	0.04	<0.02	181	0.2	0.04	3.0
REP 1964473	QC	4.2	107.8	0.41	81.8	0.030	<1	1.01	0.008	0.03	0.5	2.6	0.05	<0.02	410	<0.1	0.06	3.4
Reference Materials																		
STD DS11	Standard	15.8	56.7	0.84	347.1	0.085	6	1.09	0.065	0.39	3.2	2.8	4.66	0.27	258	2.3	4.32	4.6
STD DS11	Standard	16.2	52.5	0.81	358.6	0.082	7	1.08	0.067	0.39	3.0	2.9	4.52	0.28	289	2.4	4.96	4.8
STD DS11	Standard	15.8	57.0	0.83	360.2	0.087	8	1.09	0.066	0.40	3.0	2.9	4.58	0.29	281	2.3	4.58	4.7
STD DS9	Standard	12.7	117.2	0.63	289.5	0.109	3	0.94	0.082	0.39	3.2	2.3	5.44	0.16	213	5.2	5.13	4.6
STD DS9	Standard	12.9	120.2	0.60	286.9	0.109	4	0.94	0.087	0.40	3.1	2.5	5.32	0.16	227	5.1	5.29	4.5
STD DS9	Standard	12.0	116.2	0.61	291.7	0.108	2	0.91	0.078	0.40	3.2	2.1	5.31	0.17	197	5.0	4.84	4.4
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
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
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
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



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Submitted By: Hilary Clarke and Dave Moore
Receiving Lab: Canada-Smithers
Received: July 06, 2013
Report Date: July 20, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000067.1

CLIENT JOB INFORMATION

Project: KE
Shipment ID: KE2013-3
P.O. Number
Number of Samples: 3

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	3	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	3	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

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: Serengeti Resources
1700 - 750 W. Pender Street
Vancouver BC V6C 2T8
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CC:



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Project: KE
 Report Date: July 20, 2013

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CERTIFICATE OF ANALYSIS

SMI13000067.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
R1965154	Rock	0.66	1.2	2.9	3.2	29	<0.1	3.7	5.3	613	1.80	4.8	1.3	3.5	12	<0.1	0.1	0.1	34	0.10	0.069
R1965155	Rock	0.31	0.2	0.4	0.2	36	<0.1	350.9	15.3	292	1.28	22.9	<0.5	<0.1	<1	<0.1	0.9	<0.1	14	0.35	0.004
R1965156	Rock	1.16	0.5	559.3	1.3	16	0.6	0.6	3.6	221	1.53	<0.5	8.1	3.4	81	<0.1	<0.1	<0.1	26	0.44	0.046



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Project: KE
Report Date: July 20, 2013

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI13000067.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
R1965154	Rock	2	4	0.03	41	0.001	3	0.50	0.041	0.11	0.2	<0.01	2.8	<0.1	<0.05	1	<0.5	<0.2
R1965155	Rock	<1	894	2.47	8	0.002	<1	1.06	<0.001	<0.01	<0.1	<0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
R1965156	Rock	7	3	0.25	490	0.070	<1	0.61	0.061	0.10	0.1	<0.01	0.5	<0.1	0.10	2	<0.5	<0.2



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Project: KE
Report Date: July 20, 2013

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Part: 1 of 1

QUALITY CONTROL REPORT

SMI13000067.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Reference Materials																				
STD DS9	Standard	13.6	102.1	122.0	309	1.5	38.2	7.4	575	2.32	24.0	101.5	6.3	74	2.0	5.4	5.4	41	0.75	0.075
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																				
G1-SMI	Prep Blank	0.2	2.8	2.7	43	<0.1	4.0	3.9	567	1.98	<0.5	1.5	5.4	61	<0.1	<0.1	0.2	36	0.43	0.070



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Project: KE
Report Date: July 20, 2013

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI13000067.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																		
STD DS9	Standard	15	117	0.63	294	0.112	2	0.98	0.089	0.40	2.6	0.19	2.2	4.9	0.17	5	4.1	4.6
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank	11	7	0.57	212	0.119	2	0.97	0.082	0.47	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Hilary Clarke and Dave Moore
Receiving Lab: Canada-Smithers
Received: July 06, 2013
Report Date: July 20, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000068.1

CLIENT JOB INFORMATION

Project: Smoke
Shipment ID: SMK2013-3
P.O. Number
Number of Samples: 5

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	5	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	5	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

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: Serengeti Resources
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Project: Smoke
Report Date: July 20, 2013

Page: 2 of 2

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CERTIFICATE OF ANALYSIS

SMI13000068.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
R1965151	Rock	1.15	1.2	1.6	3.4	4	<0.1	0.6	0.2	48	0.28	11.1	1.5	19.4	2	<0.1	2.7	<0.1	<2	<0.01	0.003
R1965152	Rock	0.76	<0.1	3.8	1.4	22	<0.1	3.9	7.4	458	1.98	1.0	<0.5	5.0	77	<0.1	0.3	<0.1	43	0.90	0.065
R1965153	Rock	0.75	0.1	6.5	5.8	28	<0.1	2.9	5.4	523	1.41	<0.5	1.5	4.6	67	<0.1	0.3	<0.1	11	2.17	0.069
R1965101	Rock	1.05	<0.1	2.2	0.4	24	<0.1	933.0	111.5	1191	5.41	<0.5	1.6	<0.1	10	<0.1	<0.1	<0.1	7	0.13	0.002
R1965102	Rock	0.78	<0.1	1.4	35.3	6	<0.1	3.0	2.2	271	0.52	<0.5	<0.5	0.2	94	0.1	<0.1	<0.1	5	0.84	0.022



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Client: **Serengeti Resources**
 1700 - 750 W. Pender Street
 Vancouver BC V6C 2T8 CANADA

Project: Smoke
 Report Date: July 20, 2013

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI13000068.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
R1965151	Rock	5	3	0.01	4	0.002	<1	0.44	0.001	0.08	0.2	2.79	0.6	<0.1	<0.05	1	<0.5	<0.2
R1965152	Rock	11	3	0.56	95	0.031	2	0.92	0.048	0.14	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
R1965153	Rock	18	4	0.14	303	0.002	<1	0.61	0.026	0.39	<0.1	<0.01	2.7	<0.1	0.08	1	<0.5	<0.2
R1965101	Rock	<1	185	23.39	35	0.005	4	0.33	0.002	0.42	<0.1	<0.01	5.1	0.1	0.08	<1	<0.5	<0.2
R1965102	Rock	2	2	0.16	664	0.002	<1	0.23	0.137	0.02	<0.1	<0.01	0.4	<0.1	0.21	1	<0.5	<0.2

QUALITY CONTROL REPORT

SMI13000068.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
R1965153	Rock	0.75	0.1	6.5	5.8	28	<0.1	2.9	5.4	523	1.41	<0.5	1.5	4.6	67	<0.1	0.3	<0.1	11	2.17	0.069
REP R1965153	QC		0.2	6.2	6.0	30	<0.1	2.8	5.9	522	1.44	<0.5	0.6	4.5	68	0.2	0.2	<0.1	11	2.18	0.066
Reference Materials																					
STD DS9	Standard		13.6	102.1	122.0	309	1.5	38.2	7.4	575	2.32	24.0	101.5	6.3	74	2.0	5.4	5.4	41	0.75	0.075
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-SMI	Prep Blank		<0.1	2.8	2.5	48	<0.1	4.4	4.3	580	2.00	<0.5	<0.5	4.6	57	<0.1	<0.1	<0.1	37	0.43	0.069



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Client: **Serengeti Resources**
 1700 - 750 W. Pender Street
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Project: Smoke
 Report Date: July 20, 2013

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Part: 2 of 1

QUALITY CONTROL REPORT

SMI13000068.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
R1965153	Rock	18	4	0.14	303	0.002	<1	0.61	0.026	0.39	<0.1	<0.01	2.7	<0.1	0.08	1	<0.5	<0.2	
REP R1965153	QC	18	4	0.15	305	0.003	<1	0.62	0.027	0.41	<0.1	<0.01	2.9	<0.1	0.08	2	<0.5	<0.2	
Reference Materials																			
STD DS9	Standard	15	117	0.63	294	0.112	2	0.98	0.089	0.40	2.6	0.19	2.2	4.9	0.17	5	4.1	4.6	
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																			
G1-SMI	Prep Blank	10	7	0.61	229	0.107	<1	0.97	0.070	0.50	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2	



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Submitted By: Hilary Clarke and Dave Moore
Receiving Lab: Canada-Smithers
Received: July 07, 2013
Report Date: July 19, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000072.1

CLIENT JOB INFORMATION

Project: Smoke
Shipment ID: SMK2013-2
P.O. Number
Number of Samples: 10

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: Serengeti Resources
1700 - 750 W. Pender Street
Vancouver BC V6C 2T8
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	10	Dry at 60C			SMI
SS80	10	Dry at 60C sieve 100g to -80 mesh			SMI
1F02	10	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

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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 Vancouver BC V6C 2T8 CANADA

Project: Smoke
 Report Date: July 19, 2013

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI13000072.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		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
SS1445451	Silt	7.47	17.10	16.50	67.4	98	47.4	16.7	4373	3.71	6.7	12.4	0.5	3.5	54.2	0.82	0.39	0.27	63	0.47	0.086
SS1445452	Silt	13.56	20.46	29.48	92.9	202	83.0	49.5	>10000	14.55	23.9	25.5	39.9	14.5	51.0	0.99	0.61	0.16	103	0.66	0.081
SS1445201	Silt	3.42	14.65	9.87	35.7	62	29.7	11.2	1703	3.74	7.3	3.2	0.5	2.8	28.6	0.20	0.46	0.13	88	0.36	0.044
SS1445202	Silt	4.57	24.08	8.37	30.4	131	34.8	13.1	1222	4.43	2.5	3.2	1.2	0.2	55.7	0.41	0.28	0.08	133	0.93	0.099
SS1445203	Silt	1.08	3.83	7.17	19.3	46	12.7	5.7	425	1.04	8.1	7.7	<0.2	3.6	31.1	0.11	0.18	0.04	22	0.34	0.033
SS1445204	Silt	11.90	15.82	10.93	17.3	73	24.8	9.9	340	2.40	1.6	6.8	1.6	0.5	39.2	0.16	0.15	0.08	66	0.49	0.044
SS1445205	Silt	1.04	5.79	11.92	14.8	120	8.2	3.6	224	1.15	6.7	42.1	1.8	10.7	16.5	0.16	0.42	0.09	32	0.17	0.023
SS1445206	Silt	1.32	12.15	15.36	22.3	41	54.3	14.7	1745	4.43	2.8	0.9	0.4	1.0	23.2	0.14	0.25	0.15	117	0.30	0.026
SS1445207	Silt	2.89	17.63	22.39	22.5	75	30.2	13.3	1360	1.87	0.5	0.4	<0.2	<0.1	62.3	0.25	0.12	0.39	50	0.78	0.034
SS1445208	Silt	2.94	10.08	8.27	23.1	118	14.3	5.4	374	1.24	2.3	20.7	1.4	1.9	54.4	0.17	0.30	0.13	25	0.51	0.081



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 Vancouver BC V6C 2T8 CANADA

Project: Smoke
 Report Date: July 19, 2013

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI13000072.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
SS1445451	Silt	15.1	50.2	0.56	438.3	0.021	<1	0.95	0.014	0.08	0.2	3.6	0.06	<0.02	55	<0.1	0.08	2.7
SS1445452	Silt	91.5	78.0	0.35	1067	0.022	2	1.20	0.009	0.04	0.4	12.7	0.46	0.04	114	0.2	0.02	2.7
SS1445201	Silt	10.6	79.0	0.35	242.9	0.029	2	0.64	0.013	0.05	0.3	3.3	0.04	<0.02	1278	<0.1	0.03	2.0
SS1445202	Silt	4.1	93.0	0.44	192.4	0.040	2	0.72	0.018	0.04	<0.1	3.9	0.05	0.05	1647	0.2	0.04	2.3
SS1445203	Silt	13.2	37.9	0.31	95.1	0.031	<1	0.50	0.015	0.03	0.2	3.2	0.05	0.02	154	0.2	<0.02	1.9
SS1445204	Silt	3.0	81.9	0.44	108.0	0.042	2	0.49	0.019	0.03	<0.1	4.3	0.03	0.02	70	<0.1	0.03	2.1
SS1445205	Silt	23.4	38.6	0.15	43.5	0.021	<1	0.29	0.007	0.03	0.5	2.8	<0.02	<0.02	298	0.3	<0.02	1.1
SS1445206	Silt	3.3	168.7	0.57	178.1	0.066	<1	0.41	0.009	0.04	0.1	2.2	0.03	<0.02	39	0.3	0.05	1.8
SS1445207	Silt	1.2	91.7	0.57	252.6	0.035	<1	0.44	0.014	0.05	<0.1	3.3	0.46	0.04	147	0.9	0.06	1.7
SS1445208	Silt	20.0	38.4	0.25	441.2	0.013	1	0.59	0.007	0.05	0.4	2.5	0.04	0.04	87	0.3	0.02	1.6



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Project: Smoke
 Report Date: July 19, 2013

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QUALITY CONTROL REPORT

SMI13000072.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
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																						
SS1445204	Silt	11.90	15.82	10.93	17.3	73	24.8	9.9	340	2.40	1.6	6.8	1.6	0.5	39.2	0.16	0.15	0.08	66	0.49	0.044	
REP SS1445204	QC	11.79	15.88	10.83	16.1	79	23.4	9.2	315	2.36	1.6	6.4	1.3	0.8	38.6	0.12	0.13	0.08	68	0.47	0.045	
Reference Materials																						
STD DS9	Standard	13.07	107.0	126.2	289.2	1722	40.5	7.5	568	2.36	24.4	2.8	117.9	6.8	71.1	2.27	5.46	6.33	40	0.78	0.080	
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	<0.01	<0.1	4	<0.1	<0.1	<1	<0.01	<0.1	<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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Project: Smoke
 Report Date: July 19, 2013

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QUALITY CONTROL REPORT

SMI13000072.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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	
Pulp Duplicates																		
SS1445204	Silt	3.0	81.9	0.44	108.0	0.042	2	0.49	0.019	0.03	<0.1	4.3	0.03	0.02	70	<0.1	0.03	2.1
REP SS1445204	QC	3.0	79.3	0.43	106.8	0.041	2	0.48	0.018	0.03	<0.1	4.2	0.03	0.02	68	<0.1	<0.02	2.0
Reference Materials																		
STD DS9	Standard	15.5	113.2	0.62	311.4	0.117	1	1.07	0.088	0.44	3.0	2.6	5.02	0.16	206	4.8	4.87	4.9
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
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	7	<0.1	<0.02	0.1



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Client: **Serengeti Resources**
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Submitted By: Hilary Clarke and Dave Moore
Receiving Lab: Canada-Smithers
Received: July 07, 2013
Report Date: July 19, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000073.1

CLIENT JOB INFORMATION

Project: KE
Shipment ID: KE2013-2
P.O. Number
Number of Samples: 10

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: Serengeti Resources
1700 - 750 W. Pender Street
Vancouver BC V6C 2T8
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	10	Dry at 60C			SMI
SS80	10	Dry at 60C sieve 100g to -80 mesh			SMI
1F02	10	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

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: KE
 Report Date: July 19, 2013

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CERTIFICATE OF ANALYSIS

SMI13000073.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	ppb	ppm	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	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
SS1445453	Silt	4.06	13.45	5.88	25.7	64	23.5	9.4	1444	3.00	3.2	3.0	5.5	2.7	33.2	0.18	0.35	0.07	62	0.36	0.060	
SS1445454	Silt	3.64	11.02	4.91	19.2	52	24.2	9.0	787	4.61	3.0	3.1	0.5	1.8	32.7	0.11	0.26	0.07	123	0.41	0.068	
SS1445209	Silt	3.73	14.16	6.16	22.8	74	22.1	7.4	802	2.48	3.0	3.8	2.7	2.1	34.4	0.13	0.30	0.08	51	0.37	0.055	
SS1445210	Silt	2.31	12.87	5.77	20.0	112	17.1	6.8	565	2.34	2.2	2.7	80.6	1.6	31.3	0.11	0.24	0.08	49	0.40	0.055	
SS1445211	Silt	1.26	59.59	5.41	15.9	244	18.0	5.5	917	1.97	2.0	1.8	0.8	0.8	63.3	0.24	0.35	0.08	45	0.88	0.065	
SS1445212	Silt	1.33	13.21	4.30	18.0	74	18.9	6.1	247	1.96	1.6	3.1	0.6	1.7	33.2	0.11	0.28	0.05	54	0.51	0.075	
SS1445213	Silt	1.42	10.56	4.60	19.8	55	20.1	6.8	378	2.74	2.1	1.4	<0.2	1.4	25.3	0.10	0.29	0.05	70	0.36	0.055	
SS1445214	Silt	1.50	88.41	5.24	18.9	259	19.8	6.5	1705	2.41	2.4	2.0	2.9	0.6	78.4	0.27	0.39	0.08	48	1.16	0.074	
SS1445215	Silt	1.80	13.74	3.36	9.0	55	23.1	10.9	1616	4.65	1.4	1.0	0.4	1.0	35.1	0.12	0.27	0.04	88	0.57	0.041	
SS1445457	Silt	1.61	14.15	6.14	30.8	65	30.9	10.3	986	3.34	2.6	1.0	9.9	1.2	31.0	0.18	0.28	0.09	84	0.41	0.044	



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Project: KE
 Report Date: July 19, 2013

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CERTIFICATE OF ANALYSIS

SMI13000073.1

	Method	1F15																	
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
SS1445453	Silt	9.7	69.4	0.34	320.4	0.021	<1	0.60	0.012	0.06	0.6	2.3	0.03	<0.02	29	0.1	0.09	2.0	
SS1445454	Silt	9.1	98.5	0.25	244.0	0.029	<1	0.43	0.010	0.04	0.7	2.1	<0.02	<0.02	143	0.3	0.03	1.6	
SS1445209	Silt	10.5	66.0	0.34	291.8	0.019	<1	0.64	0.011	0.06	0.4	2.4	0.03	<0.02	40	0.1	0.06	2.1	
SS1445210	Silt	12.1	63.6	0.29	226.6	0.013	<1	0.62	0.010	0.06	0.5	2.3	0.02	0.02	458	0.2	0.06	1.8	
SS1445211	Silt	19.8	47.8	0.24	427.1	0.008	<1	0.55	0.009	0.05	0.3	4.8	0.04	0.05	114	1.1	<0.02	1.7	
SS1445212	Silt	9.7	68.7	0.33	197.4	0.041	<1	0.52	0.009	0.04	0.3	2.6	<0.02	0.02	103	0.1	0.03	2.0	
SS1445213	Silt	8.6	66.1	0.31	167.4	0.027	<1	0.49	0.011	0.05	0.6	2.0	<0.02	<0.02	35	<0.1	0.04	1.8	
SS1445214	Silt	15.6	48.9	0.25	641.1	0.009	<1	0.66	0.007	0.05	0.3	5.8	0.04	0.07	187	1.4	<0.02	1.9	
SS1445215	Silt	5.4	81.0	0.21	671.1	0.025	1	0.31	0.007	0.03	0.5	1.7	<0.02	0.03	209	0.2	0.02	1.5	
SS1445457	Silt	7.1	77.7	0.38	246.2	0.044	<1	0.67	0.012	0.04	0.5	2.6	<0.02	<0.02	81	0.2	0.03	2.0	



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QUALITY CONTROL REPORT

SMI13000073.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
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		
Reference Materials																						
STD DS9	Standard	13.07	107.0	126.2	289.2	1722	40.5	7.5	568	2.36	24.4	2.8	117.9	6.8	71.1	2.27	5.46	6.33	40	0.78	0.080	
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	<0.01	<0.1	4	<0.1	<0.1	<1	<0.01	<0.1	<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

SMI1300073.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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	
Reference Materials																		
STD DS9	Standard	15.5	113.2	0.62	311.4	0.117	1	1.07	0.088	0.44	3.0	2.6	5.02	0.16	206	4.8	4.87	4.9
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
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	7	<0.1	<0.02	0.1