

BC Geological Survey
Assessment Report
33159



SERENGETI
RESOURCES INC.

ASSESSMENT REPORT
Geochemical Soil Sampling
on the
VALLEAU PROPERTY

OMINECA MINING DIVISION,
British Columbia
NTS: 93N/055
Latitude 55°28' N, Longitude 125°1' W

Prepared for Operators:
SERENGETI RESOURCES INC
1700-750 West Pender Street
Vancouver, BC, Canada V6C 2T8

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16 April, 2012
Vancouver, B.C.

Table of Contents

List of Tables	1
List of Figures	1
List of Appendix.....	1
(1) Introduction.....	2
(2) Property Description and Location.....	2
(3) Accessibility, Local Resources, Infrastructure, Climate and Physiography	7
(4) History.....	7
(5) Geology	8
(6) Results and Discussion	9
(7) Summary and Recommendations.....	16
(8) References	17

List of Tables

Table 1 – Detailed Claim Information

List of Figures

Figure 1 – Property Location
Figure 2 – Valteau Property Claim Details
Figure 3 – Compilation of Historical Work and Target Areas
Figure 4 – 2011 Rock and Soil Sample Locations
Figure 5 – Current Target Areas
Figure 6 – Copper in Ah Soils Result Plot
Figure 7 – Gold in Ah Soils Result Plot
Figure 8 – Mo in Ah Soils Result Plot
Figure 9 – Eastern Ah Soil Target Compilation

List of Appendix

Appendix A - Expenditure Statement
Appendix B - Geologist's Certificate
Appendix C – Field Notes and Selected Element Assay Results
Appendix D – Maps of Sample Locations and Results
Appendix E – Analytical Certificates

(1) Introduction

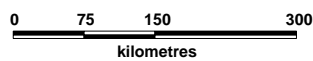
Serengeti Resources Inc. (Serengeti) acquired the Valleau claims by staking in January of 2005. The property lies in the prospective Quesnel Trough, 75 km northwest of the Mt. Milligan deposit and 18 km east of the Kwanika deposit. In order to further refine Cu+/-Au porphyry targets on the property, Serengeti financed a \$15,381 geochemical reconnaissance program (Appendix A). From August 10th and 12th, 2011, a field crew working for Serengeti visited the Valleau property and collected 145 Ah horizon soil samples and 7 rock samples.

(2) Property Description and Location

The Valleau property is 100% owned by Serengeti Resources Inc. It is located in the Omineca Mining Division of north-central British Columbia, Canada, 130 km NNW of Fort St James, at 55° 28' north latitude and 125° 1' west longitude (Figure 1). The 15 contiguous mineral claims which comprise the Valleau property cover an area of 5,886 hectares (Figure 2). Additional information regarding the individual claims can be referenced in Table 1.

Table 1: Valleau 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>
VALLEAU	501134	VAL 6	458.39	12-Jan-14	093N046	12-Jan-05	OMENICA
VALLEAU	501250	VAL 7	458.38	12-Jan-14	093N046	12-Jan-05	OMENICA
VALLEAU	501521	VAL 8	440.23	12-Jan-14	093N046	12-Jan-05	OMENICA
VALLEAU	502038	VAL 11	183.35	12-Jan-14	093N046	12-Jan-05	OMENICA
VALLEAU	502129	VAL 12	458.44	12-Jan-14	093N045	12-Jan-05	OMENICA
VALLEAU	502168	VAL 13	440.38	12-Jan-14	093N046	12-Jan-05	OMENICA
VALLEAU	502196	VAL 14	293.51	12-Jan-14	093N045	12-Jan-05	OMENICA
VALLEAU	502227	VAL 15	275.23	12-Jan-14	093N045	12-Jan-05	OMENICA
VALLEAU	514447		458.39	19-Dec-13	093N045	15-Nov-04	OMENICA
VALLEAU	514448		458.39	19-Dec-13	093N045	15-Nov-04	OMENICA
VALLEAU	514449		274.94	19-Dec-13	093N045	15-Nov-04	OMENICA
VALLEAU	514450		458.06	19-Dec-13	093N045/055	19-Nov-04	OMENICA
VALLEAU	514451		513.05	19-Dec-13	093N045/055	18-Nov-04	OMENICA
VALLEAU	959209	VAL 16	385.26	12-Mar-13	093N	12-Mar-12	OMENICA
VALLEAU	959229	VAL 17	330.35	12-Mar-13	093N	12-Mar-12	OMENICA
15 claims			5886.33				

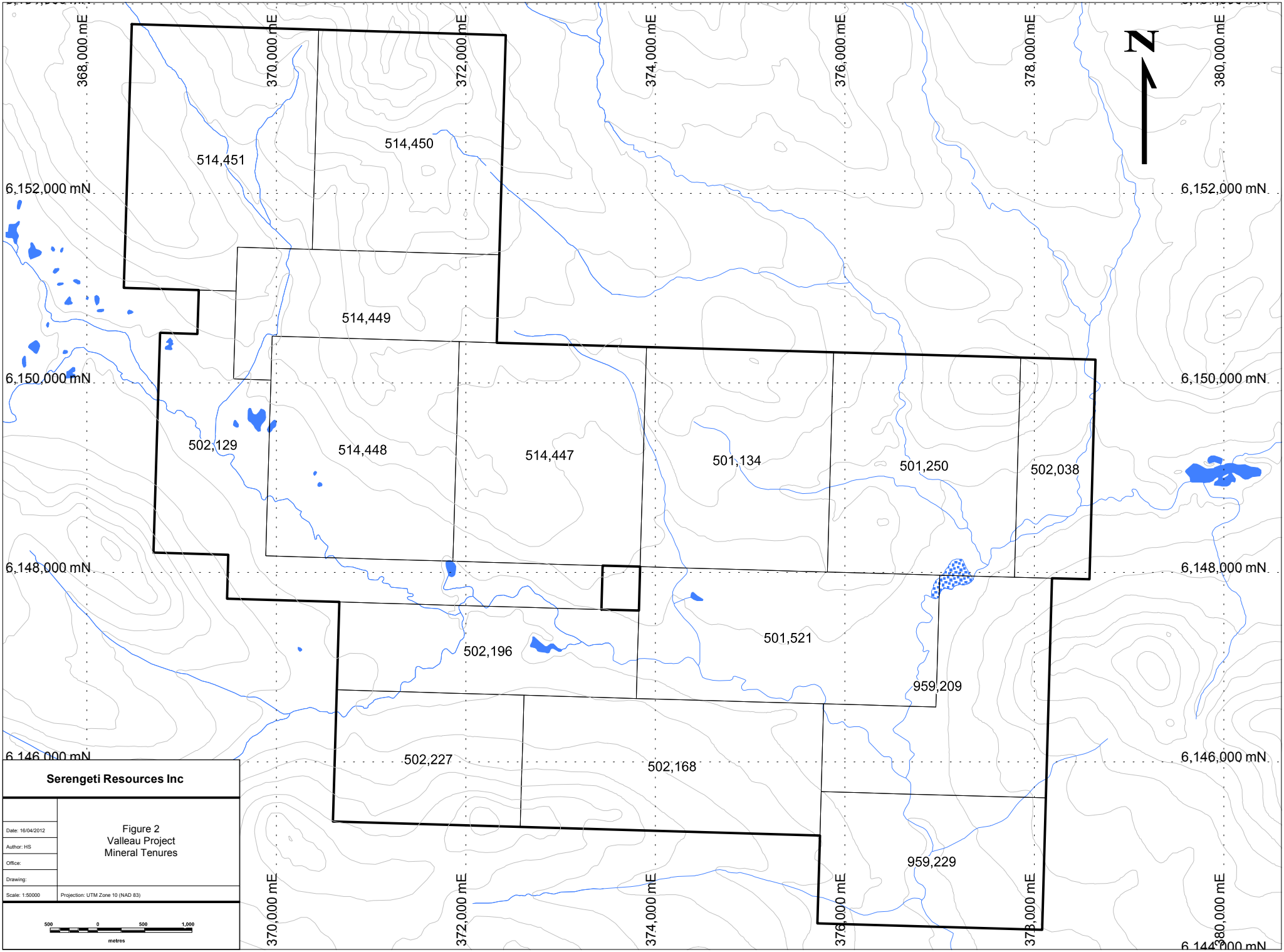


SERENGETI RESOURCES INC.

VALLEAU PROPERTY

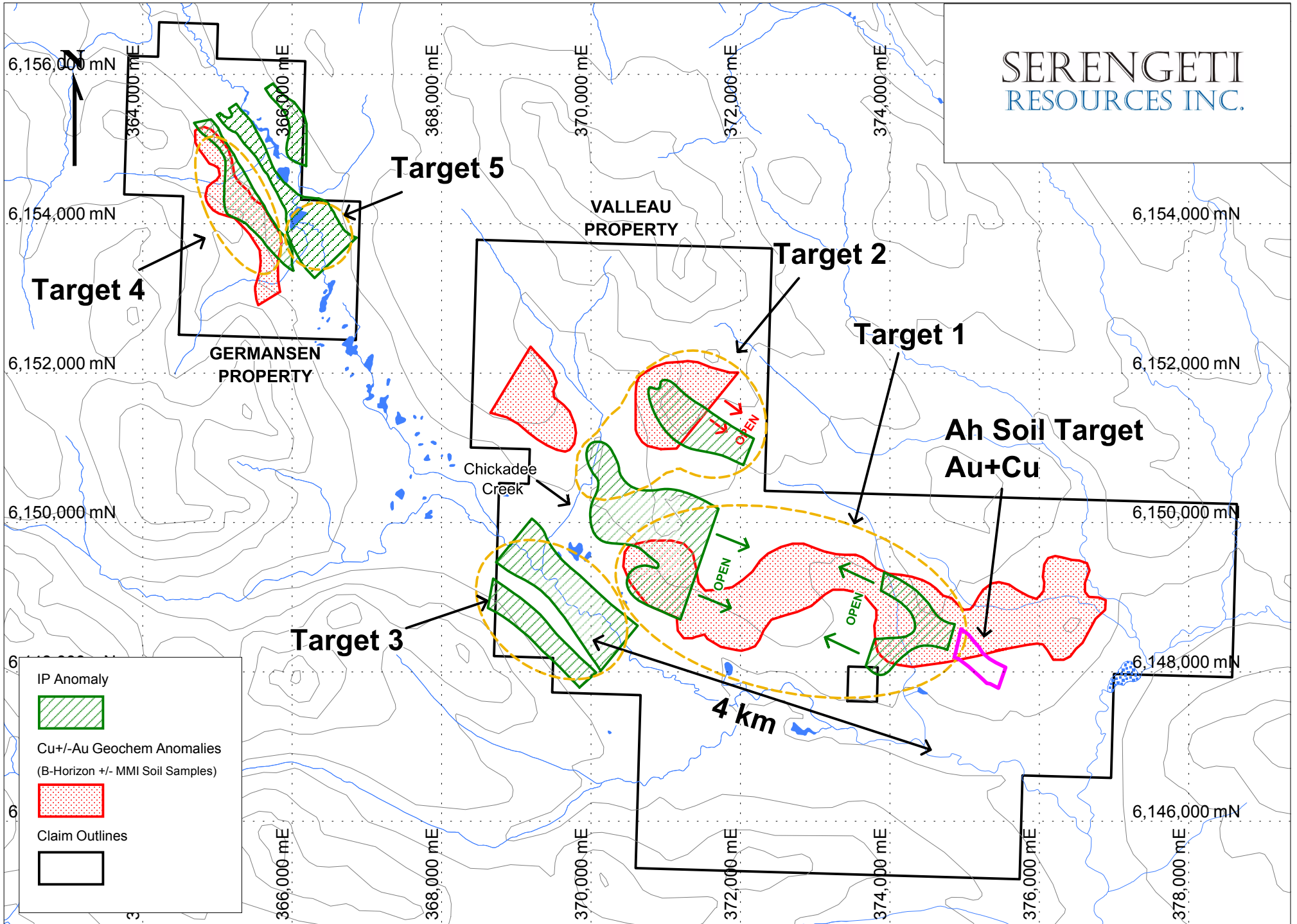
Location Map

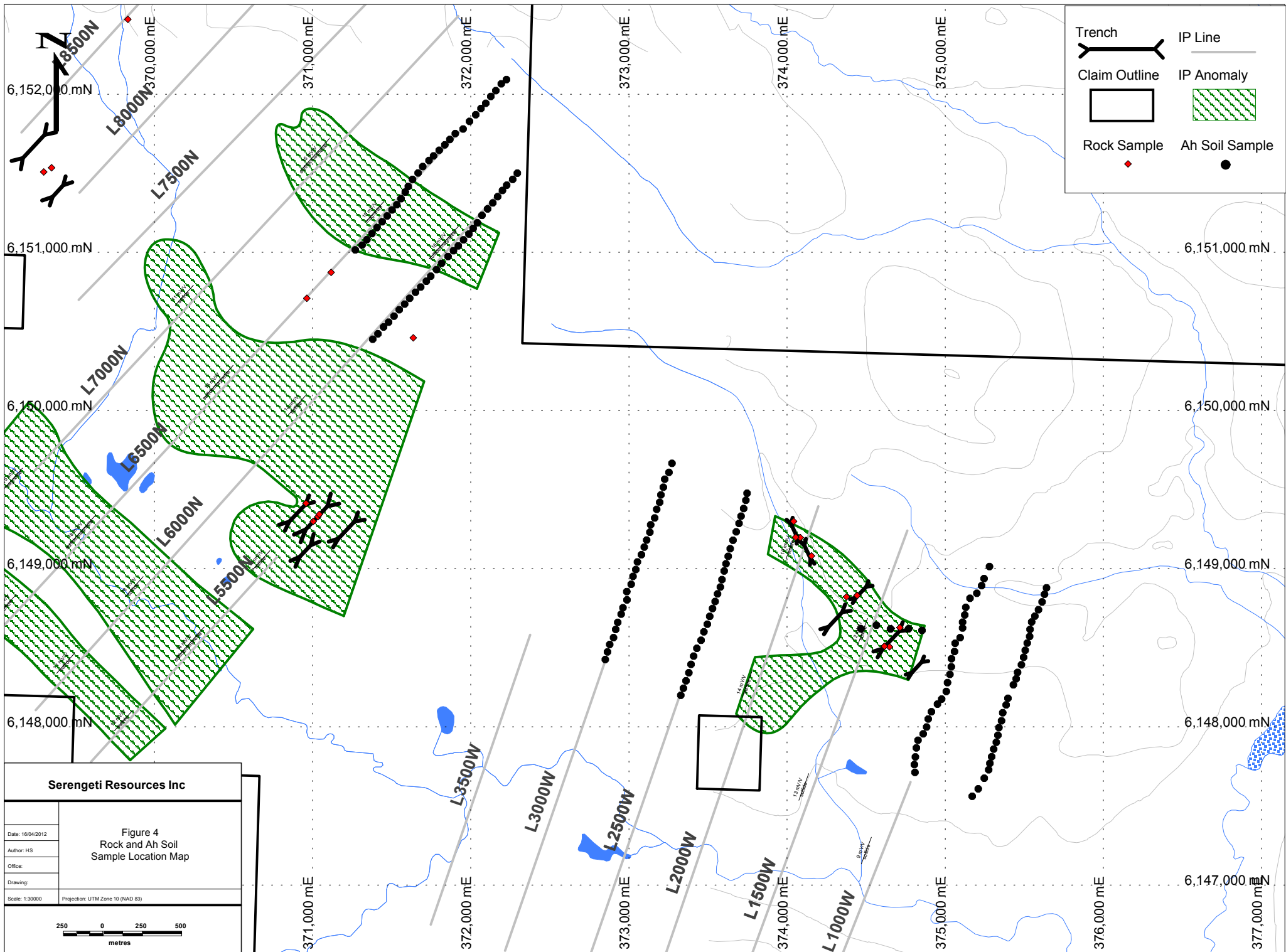
Date	Jan 27, 2006	Scale	1:8,000,000	Plate	1
Projection	UTM - NAD83	State/Province	BC		
Author	MO	File	ValLoc		



Serengeti Resources Inc	
Date: 16/04/2012	<p align="center">Figure 2 Valleau Project Mineral Tenures</p>
Author: HS	
Office:	
Drawing:	
Scale: 1:50000	Projection: UTM Zone 10 (NAD 83)

Germansen-Valleau Project - Target Areas - Figure 3





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

The property is located approximately 75 km northwest of the Mt. Milligan deposit, owned by Terrane Metals and 18 km east of Serengeti's Kwanika deposit. Access to the Valleau property can be obtained via helicopter from Fort St James (130 km to the south) or from Kwanika Camp.

The climate of region is typical of middle latitudes in Canada as the winters are cold (-5 to -25 deg 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 1,250 m to 1700 m. It is everywhere forested except for meadows in the valleys and upland creeks. The vegetation on the property is best characterized by the presence of pine and fir forests with swampy grasslands occurring in low-lying areas.

(4) History

The results of previous work on the Valleau property has identified three primary targets consisting of anomalous gold and copper values in stream sediment and soils, co-incident with open ended Induced Polarization (IP) chargeability anomalies (Figure 3 – compilation map of targets on the Germansen-Valleau trend).

Target 1 consists of an approximately 6,000 m long by 200 m to 800 m wide east/west trending gold soil anomaly with three areas of strongly elevated gold values. This work showed an 800 m long by 300 m wide zone of greater than 100 ppb Au with trenches reportedly encountering propylitically and iron-carbonate altered monzonite and diorite with minor pyrite and chalcopyrite. Six trenches were completed by prior operators with the best gold grade 1,080 ppb/10 m. IP surveying completed by Serengeti identified open ended chargeability anomalies at either end of the Au in-soil anomalies, leaving an obvious gap for follow up testing. If the IP anomalies coalesce, the target would measure 5 km x 2.5 km, consisting of co-incident geochemical anomalies and high chargeability. Interestingly, the gap in the IP anomaly is coincident with a roughly circular magnetic low, possibly representing a magnetite destructive alteration zone.

Target 2 consists of anomalous gold values (16 ppb to 640 ppb) and moderately anomalous copper values (81 ppm to 124 ppm) in stream sediment samples in an area 2,500 m by 1,000 m. Follow-up soil sampling identified an area measuring +2,200 m by 1,000 m of anomalous copper values (81 ppm to 969 ppm) with patchy anomalous gold values. Outcrop is poor but pyritic andesite with minor chalcopyrite is noted in outcrops along Robin Creek, a tributary of Chickadee Creek. **Of significance is that coarse, angular grains of gold have been panned from Chickadee Creek suggesting a nearby source.** This target occurs at the edge of a

strong aeromagnetic anomaly and is coincident in part with a northwest trending chargeability high.

Target 3 is a +2 km x 2.5 km, valley bottom (ie. covered) IP anomaly. This anomaly is open to the northwest and may coalesce with Target 5 on the Germansen property.

(5) Geology

Regional Geology

The Germansen 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 Germansen-Valleau area (Kemess mine and the Mt. Milligan, Kwanika and Lorraine deposits) are associated with strong, airborne magnetic anomalies, especially northwest cross trends, and large copper/gold stream sediment anomalies with both of these features present at the Valleau property.

In the Valleau project area, the geology consists of Upper Triassic and Lower Jurassic island arc volcanic and sedimentary units of the Takla Group, and the Chuchi Lake and Twin Creek successions. These units have been extensively affected by intrusions of the Hogem plutonic suite, comprised of late Triassic and early Jurassic composite plutons – the intrusive equivalent of the island arc volcanic units, and the Valleau Creek intrusive suite -diorite, gabbro, pyroxenite and hornlendite rocks – which occurs along the eastern margin of the Hogem Batholith.

Property Geology

Outcrop exposures on the Valleau property are limited to higher elevations on the north eastern portion of the property. The vast majority of the property geology is obscured by glacial till. Glacial features such as eskers, drumlins, erratics and hummocks occupy the low lands adjacent to the wide creek traversing the middle of the property. Small outcrops of propylitically and potassically altered diorite and monzonite with pyrite, chalcopyrite and malachite have been reported in the areas associated with large soil anomalies for copper and gold.

An excavated trail and several trenches exist on the northern side of the valley. Rocks observed from the trenches are predominantly very fine grained andesite and diorite. The country rocks have been locally intruded by a strongly iron-carbonate altered felsic intrusive

(monzonite?). This unit is uncovered in the easternmost trenches and is believed to be the host of the reported 1,080 ppb of gold over 10 m. The majority of rocks observed on the Valleau property by Serengeti staff in 2009 and 2011 were and fresh to weakly altered dioritic intrusives. Andesite porphyry volcanic rock occurs locally in some of the old trenches and scattered outcrops in the northwest portion of the property. Due to the extensive glacial cover, a coherent geological picture has been difficult to obtain. Importantly, in the area of interest at the eastern edge of the historical trenches, the bedrock is completely covered by soil and glacial till.

(6) Results and Discussion

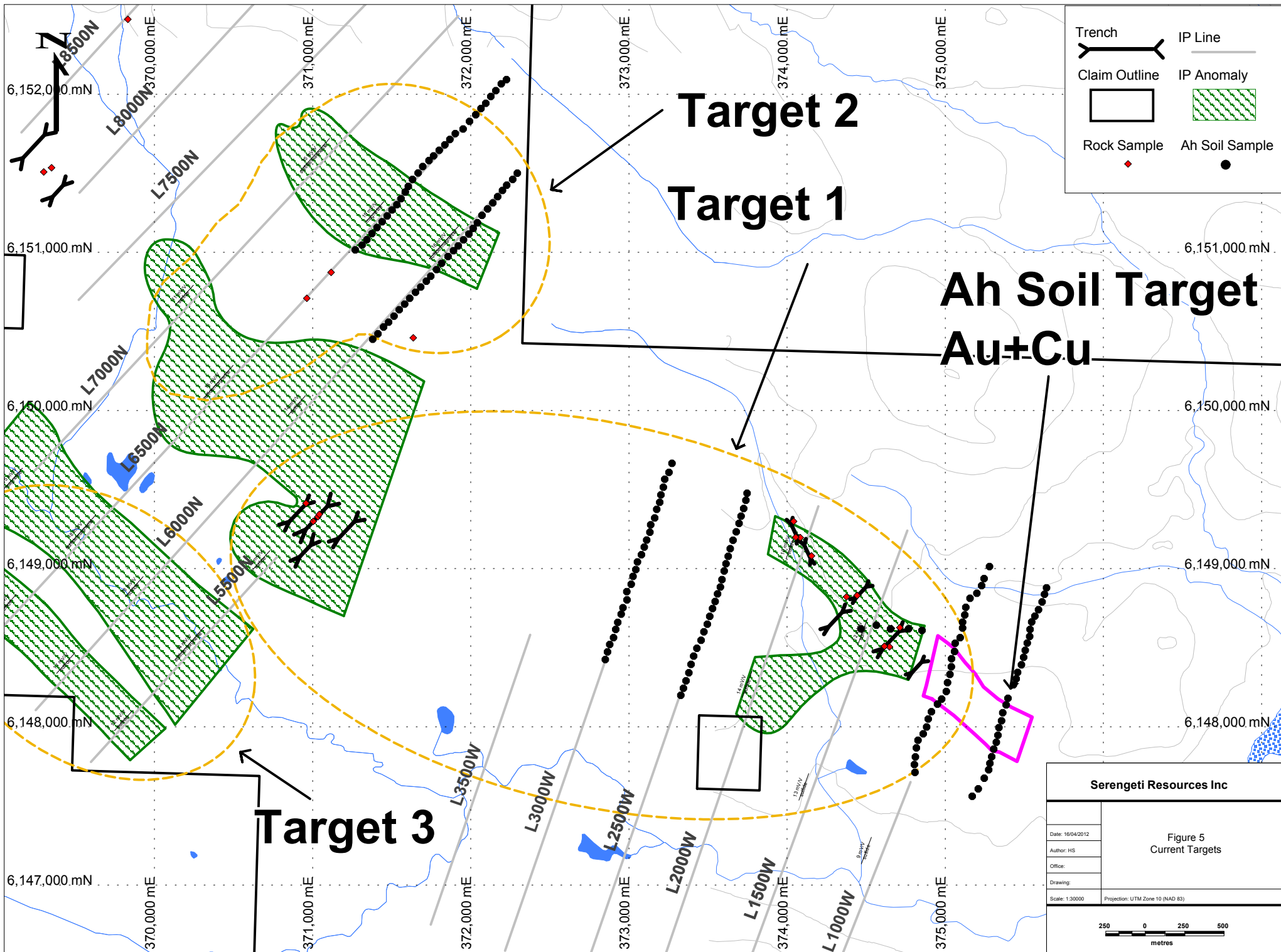
Sample Collection and Analysis*

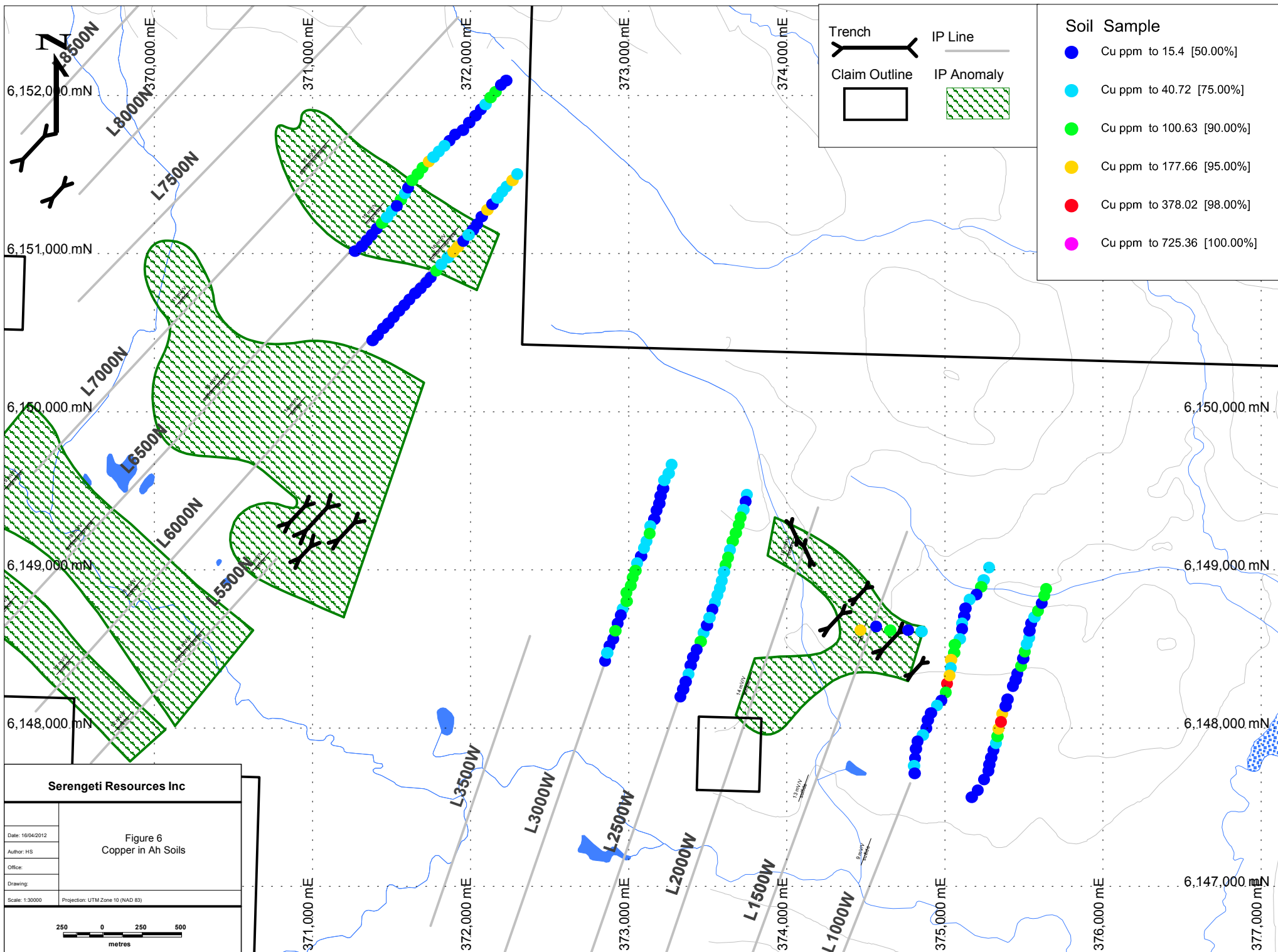
A total of 145 soil samples and 7 rock samples were collected and analyzed (Figure 4). The crew collected the soil samples from the Ah soil horizon and the samples were analyzed using Acme labs ultra-trace ICP digestion and analysis technique. In order to determine the variability of results for different sample sizes, each Ah soil sample was analyzed using both a 0.5 gram aliquot (code 1F04) and a 15 gram aliquot (code 1F05). The rock samples were analyzed by Acme using an ICP-MS scan. See Appendix E for full sample preparation procedures, Acme Laboratory analytical codes, and a complete list of results for each sample. In Appendix C, there is a table with complete lists of Ah soil and rock samples collected and analyzed in 2011 including; sample IDs, sample locations, and significant element assay results. These tables will allow any reader to easily plot locations and significant assay results for all Ah soil samples and rock samples collected by Serengeti on the property in 2011.

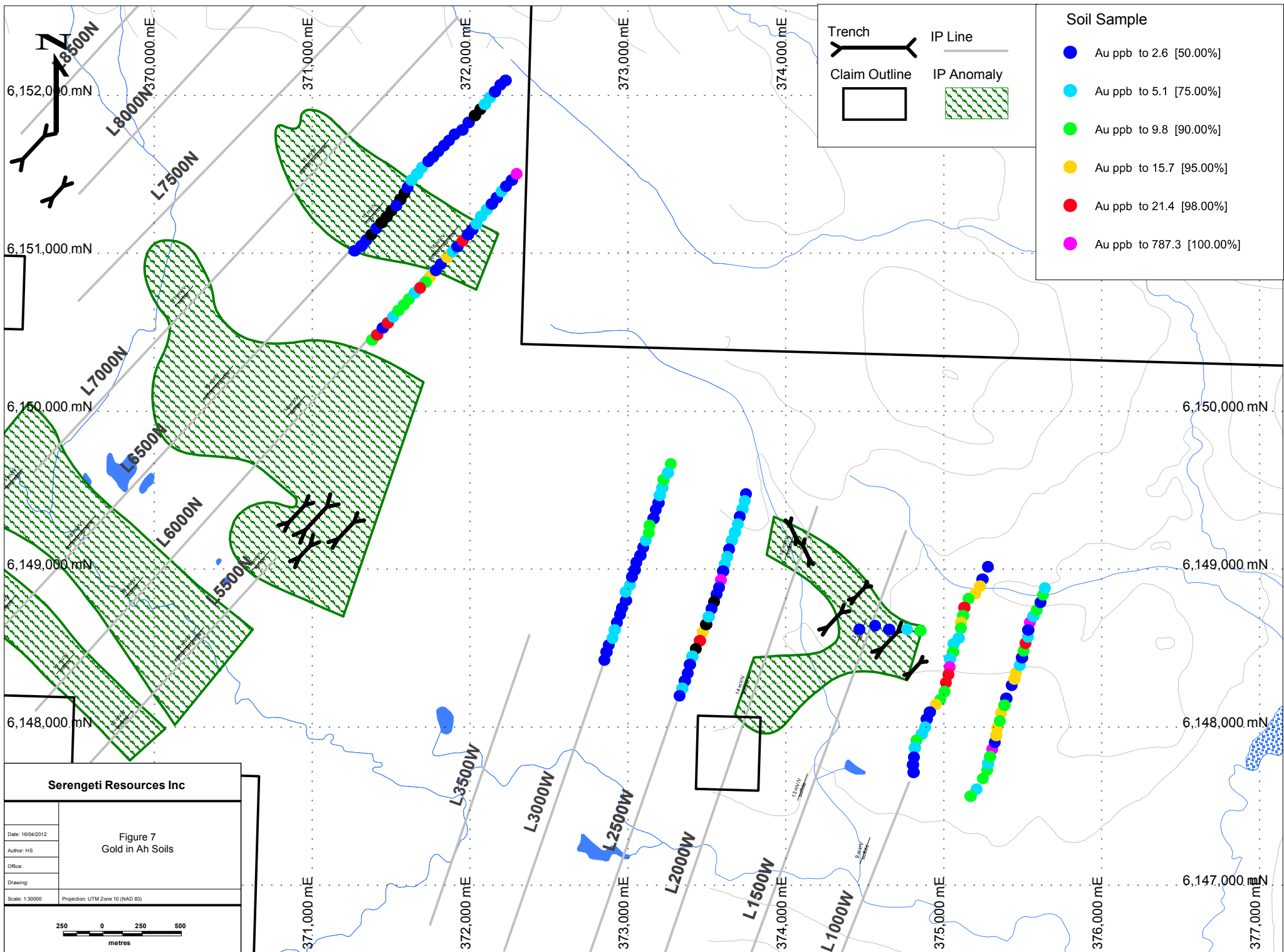
**(Note: See Appendix D for 1:6,000 scale plots showing important details and results for all Ah soil and rock samples collected in 2011. The plots include maps showing: sample ID's, absolute value Cu and Au assay results for rock samples, and absolute value Cu, Au, and Mo, assay results for Ah soil samples.)*

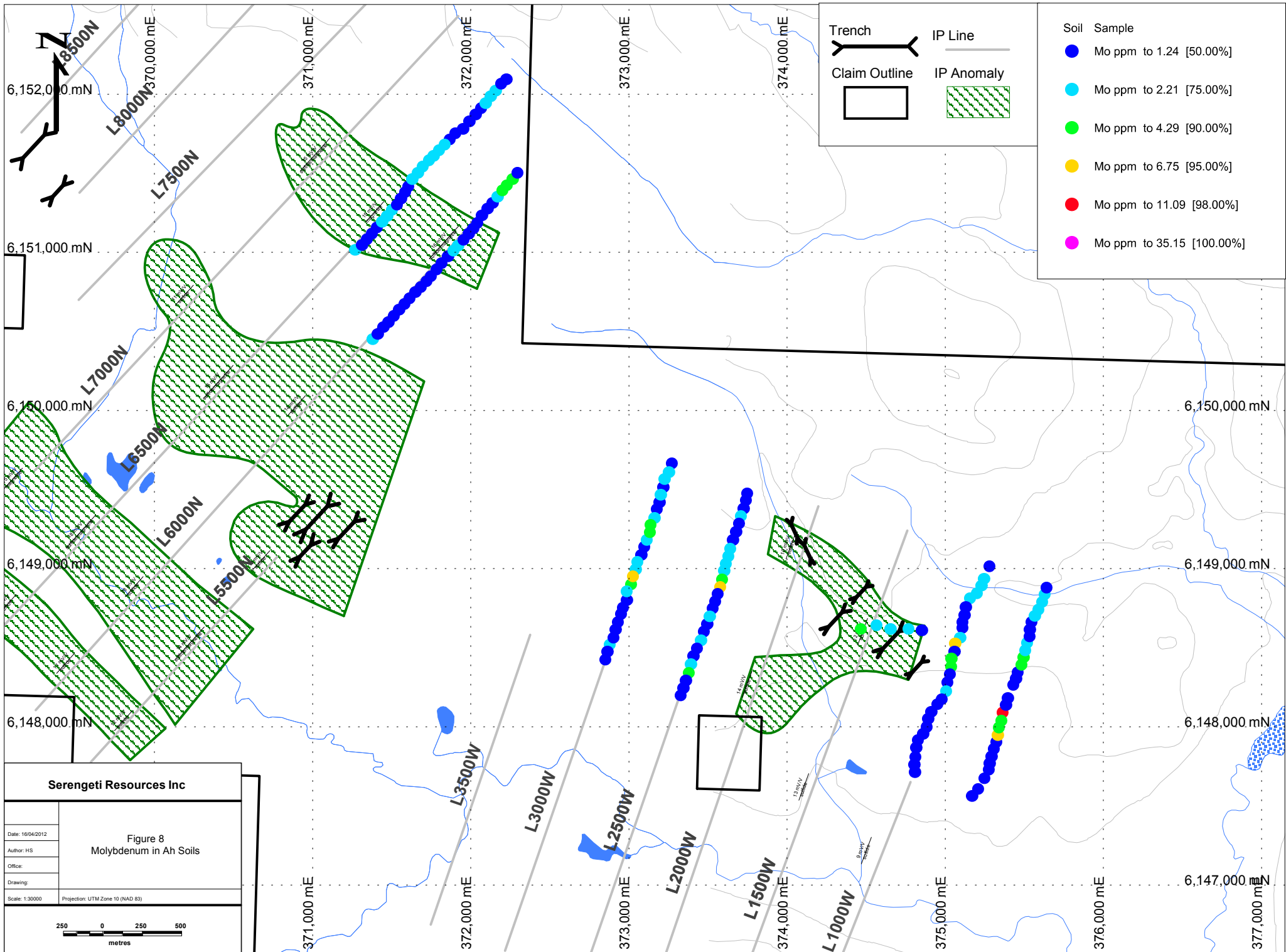
Rock Sampling and Geological Reconnaissance Results*

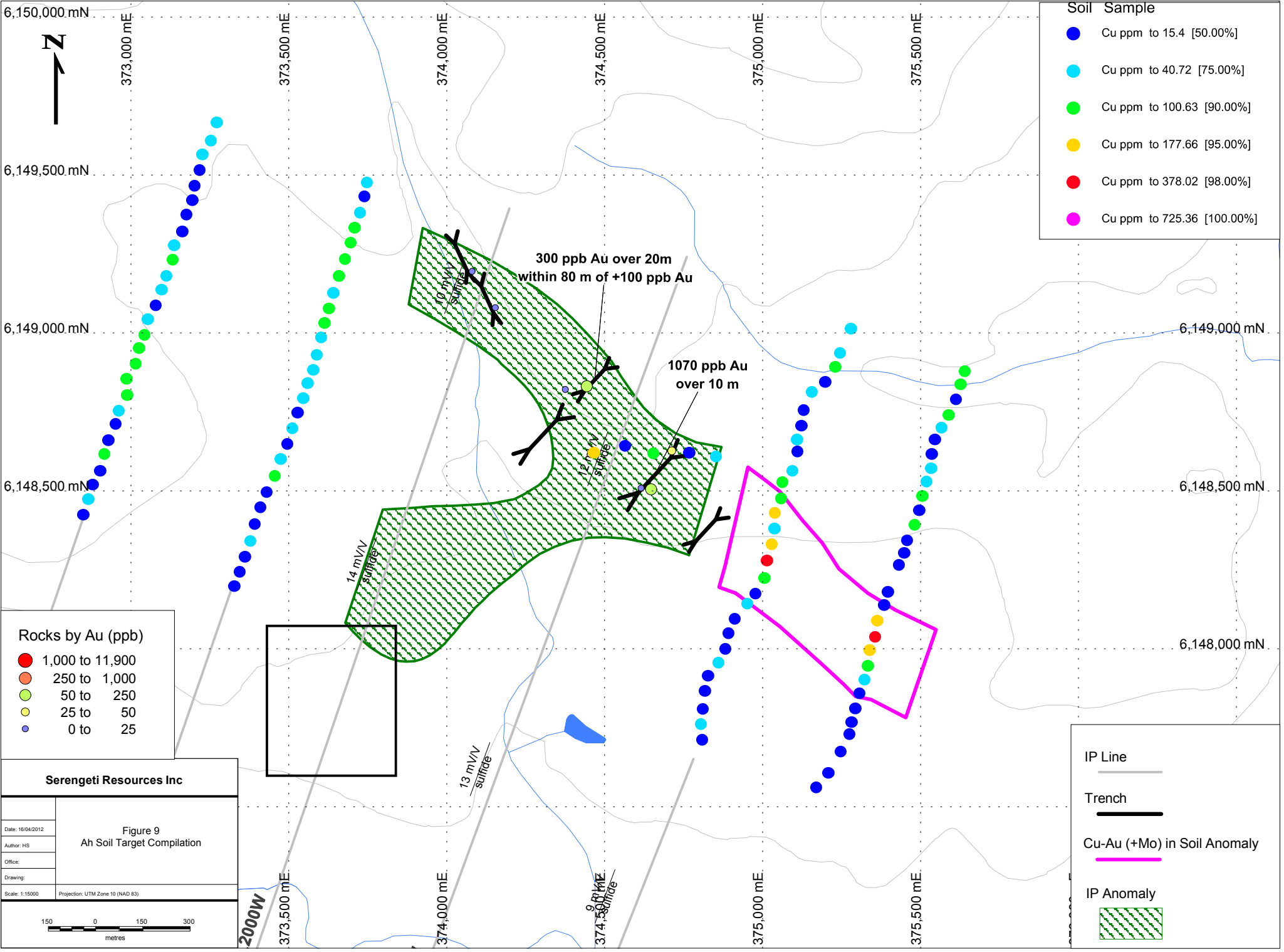
A general geological reconnaissance was completed over two days by a Serengeti geologist. The goal of this survey was primarily to investigate the reported assay results of the old trenches located in the central and eastern portion of the property. The old trenches had been filled in and it was therefore difficult to confirm the reported historical assay results, including 1,080 ppb Au over 10 m in the easternmost trench; however, prospective looking iron-carbonate altered alkalic intrusives were observed in the vicinity of these trenches. The best result of the limited rock sampling returned 130 ppb Au, occurring in an outcropping syenite dyke (sample 540958). This sample was located within an old trench in the central to western portion of the property. Much of the target areas are covered by soils and some tills, covering potentially prospective ground.











Soil Sample

- Cu ppm to 15.4 [50.00%]
- Cu ppm to 40.72 [75.00%]
- Cu ppm to 100.63 [90.00%]
- Cu ppm to 177.66 [95.00%]
- Cu ppm to 378.02 [98.00%]
- Cu ppm to 725.36 [100.00%]

Rocks by Au (ppb)

- 1,000 to 11,900
- 250 to 1,000
- 50 to 250
- 25 to 50
- 0 to 25

Serengeti Resources Inc

Figure 9
Ah Soil Target Compilation

Date: 16/04/2012
 Author: HS
 Office:
 Drawing:
 Scale: 1:15000
 Projection: UTM Zone 10 (NAD 83)

150 0 150 300
metres

IP Line
—

Trench
—

Cu-Au (+Mo) in Soil Anomaly
—

IP Anomaly
▨

*Ah Soil Sampling Results**

Thematic maps of the Ah soil assay results for Copper, Gold, and Molybdenum are shown in Figures 6 to 8. The thematic maps of the soil sampling results were created using ioGAS software and are colored based on percentile rank of the results within the total sample population (ie. 551 samples in this case). For example, the *magenta* points show the >98th percentile results within the sample population, the *red* points show the 95th to 98th percentile results within the sample population, and the *yellow* points show the 90th to 95th percentile results within the sample population. In the author's experience in interpretation of Ah soil sample results over the past three years, samples with responses that are 95th percentile or greater are considered strongly anomalous (ie. red or magenta color). Note that those result responses that are 90th percentile or greater (ie. yellow) may be considered anomalous, depending on the density of survey. In this case, the author believes that 90th percentile samples are considered strongly anomalous if they are clustered with several samples in the 95th to 98th percentile.

Copper – there is a strongly anomalous, coherent area of copper anomalism observed on the two easternmost lines in the survey. The anomaly is defined seven (7) samples assaying greater than 100 ppm Cu, including a maximum result of 191.7 ppm Cu. The anomaly is open to the east. Lower magnitude but still strongly anomalous Cu results (green dots in thematic maps) occur to the north of the main anomaly. This anomalous area occurs immediately east and southeast of an open ended IP-chargeability anomaly identified by Serengeti in a 2007 survey. In addition, the soil anomaly is also located immediately east of historical trenches that encountered up to 1,070 ppb Au over 10 m within strongly iron-carbonate altered felsic intrusives. A 2007 IP survey identified a chargeability anomaly associated with the trenches. The IP anomaly is open to the east, towards the Cu+Au Ah soil anomaly. Figure 6 shows the Cu results and the location of the 2007 IP lines and IP anomalies. Figure 9 shows a compilation of this “Ah soil target area”, and includes the location of the historic trenches, reported results, and Serengeti rock samples.

Gold – several strongly anomalous gold results also occur on the two easternmost lines in the survey, coincident with the Cu anomaly. The Au anomaly is defined eight (8) samples assaying greater than 10 ppb Au, including samples assaying 77.1 and 787.3 ppb Au. As with the copper, the anomaly is open to the east and lower magnitude but still strongly anomalous Au results (>10 ppb Au) occur to the north of the main anomaly. This anomalous area occurs immediately east and southeast of an open ended IP-chargeability anomaly identified by Serengeti and the historical trenches, which encountered up to 1,070 ppb Au over 10 m within strongly iron-carbonate altered felsic intrusives. Figure 7 shows the Au results and the location of the 2007 IP lines and IP anomalies. Figure 9 shows a compilation of this “Ah soil target area”, and includes the location of the historic trenches, reported results, and Serengeti rock samples.

There are also several strongly anomalous Au results observed on the soil sample line collected along IP L6000N. Results include 6 samples assaying 10 to 22 ppb Au, which are considered strongly anomalous based on the author's experience with Ah soil sampling. This anomalism occurs within Target #2 (see Figure 3), which consist of a strong aeromagnetic high, a northwest trending chargeability anomaly, and strongly anomalous Au in stream sediments.

Molybdenum – there are three strongly anomalous Mo samples that are roughly coincident with the Ah soil target in the eastern portion of the property. The anomalous samples assayed 5.6, 5.2, and 11.1 ppm Mo. While the absolute values of the results are low, they are considered

significant as the background Mo results is clearly less than 1 ppm (0.50 to 0.75 ppm Mo). This low background is consistent with the authors observations from other Ah soil surveys, and therefore, the anomalies should be considered valid. Figure 8 shows the Mo results and the location of the 2007 IP lines and IP anomalies.

(7) Summary and Recommendations

Work completed by previous operators and by Serengeti from 2007 to 2011 has identified four target areas; Targets 1, 2, and 3, and the Ah soil target. The 2011 exploration program identified a robust multi-line, coincident Cu+Au (+some Mo) soil geochemical anomaly, which is open to the east. This anomaly occurs immediately east of historical trenches that encountered up to 1,070 ppb Au over 10 m within strongly iron-carbonate altered felsic intrusives. IP surveying completed by Serengeti in 2007 identified an IP anomaly associated with these trenches. The IP anomaly is open to the east, towards the Cu+Au Ah soil anomaly.

Therefore, it is recommended that:

- i) Infill Ah soil sampling be completed in the area of the Cu+Au (+Mo) Ah soil anomaly to confirm results and refine targets.
- ii) Extend the existing soil grid to the east and to the west to define the extents of the anomaly
- iii) Extend the existing IP survey grid to the east of L1500 W. This will test for a potential sulphide source underlying the Ah soil anomaly, in addition to testing for an eastern extension of the existing chargeability anomaly.
- iv) Pending positive results of the IP and Ah geochem sampling, reconnaissance diamond drilling should be completed in the target areas.

(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, and 31736.

McMillan, W.J., 1991: Porphyry Deposits in the Canadian Cordillera; in Ore Deposits, Tectonics and Metallogeny in the Canadian Cordillera, B. C. Ministry of Energy, Mines and Petroleum Resources, Paper 1991-4, pages 253-276.

Appendix A – Expenditure Statement

Valleau Project Cost Statement

Dates: Aug 10th to 12th, 2011

Claims Worked: 514448, 514447, 504129, 502196, 501521, 501134

Soil Geochemistry Survey and Prospecting

1) Staff

Senior Geologist - 3 days @ \$450/day	\$	1,350.00
Geologist - 2 days @ \$325/day	\$	650.00
Sampler 1 - 3 days @ \$250/day	\$	750.00
Sampler 2 - 2 days @ \$250/day	\$	500.00

2) Analysis

Analysis of 145 Ah Soil Samples @\$42.74/sample <i>(note: completed 0.5 gram and 15 gram analysis)</i>	\$	6,197.81
Analysis of 7 Rock Samples @\$25/sample	\$	175.00

3) Transport

Helicopter	\$	1,765.95
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4) Other

Freight	\$	344.48
Groceries and Supplies	\$	640.00
Accomadation - 10 man days@\$80/day	\$	800.00
Truck - 3 days@\$120/day	\$	360.00

5) Report

Assessment Report - 1 day @ \$450/day	\$	450.00
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Sub-Total \$ 13,983.24

Admin (10%) \$ 1,398.32

Total Expenditure \$ 15,381.56

Pac (30%) \$ 4,614.47

Total to File \$ 19,996.03

Appendix B – Geologist's Certificate

GEOLOGIST'S CERTIFICATE

I, Hugh R. Samson of #205-1585 West 13th Avenue, 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 2005 graduate of Dalhousie University with an Honours BSc.
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 August 10th to 12th, 2011, by the Author, staff of Serengeti Resources Inc., and contractors on behalf of Serengeti Resources Inc. This work was supervised by the Author.
5. THAT I am Professional Geoscientist (P. Geo) registered and in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (#37001).

DATED at Vancouver, British Columbia this 16th day of April, 2012.

Hugh R. Samson, P. Geo



Appendix C – Field Notes and Selected Element Assay Results

Sample Type	Sample #	Zone	Easting (NAD83)	Northing (NAD83)	Elevation	Date	Lithology	Sampler	Notes	Type of Sample (Outcrop, subcrop, float, talus)	ACME Job #
Rock	OR-5a	10	370959	6149413		01-Jul-05		MJO	syenite dyke, FeCO3 in fracture, rusty	outcrop	
Rock	OR-6	10	374042	6149299		01-Jul-05		MJO	silicified sediment, qtz. veinlets with FeCO3, minor pyrite	outcrop	
Rock	OR-17	10	374615	6148509		01-Jul-05		MJO	monzonite/syenite, qtz. veinlets with pyrite and specularite	outcrop	
Rock	OR-29	10	374615	6148509		01-Jul-05		MJO	syenite dyke, K-feldspathized, qtz. veinlets with pyrite, specularite	outcrop	
Rock	MR-5	10	364480	6154586		01-Jul-05		MJO	andesite, albitized/epidotized, 1-2%pyrite	outcrop	
Rock	MR-8	10	371042	6149343		01-Jul-05		MJO	syenite dyke, qtz./FeCO3 veinlets, 1%pyrite, rusty	outcrop	
Rock	MR-9	10	371004	6149299		01-Jul-05		MJO	diorite, epidotized, specularite and malachite on fracture	outcrop	
Rock	MR-18	10	374083	6149196		01-Jul-05		MJO	monzonite, qtz. veinlets with pyrite, FeCO3 and specularite	outcrop	
Rock	MR-20	10	369300	6151508		01-Jul-05		MJO	monzonite, chloritized, epidotized, magnetite, FeCO3	outcrop	
Rock	MR-21	10	374054	6149199		01-Jul-05		MJO	monzonite, FeCO3, trace pyrite. 10 m chip	outcrop	
Rock	MR-22A	10	374443	6148831		01-Jul-05		MJO	K-feldspathized monzonite, trace pyrite, chalcopryrite	outcrop	
Rock	MR-22B	10	374443	6148831		01-Jul-05		MJO	silicified rock, 5-10%pyrite, FeCO3	outcrop	
Rock	GG VR 01	10	369350	6151535		04-Aug-09	granite	GG	granite, moderately magnetic, trace Py and Cp. old trench exposing granite on south side of trench, sulphides are fine grained disseminated, not on fractures or veinlets	outcrop	V09-0242R
Rock	GG VR 02	10	369833	6152473		04-Aug-09	andesite	GG	andesite or possibly monzonite. southwest facing slope with subcrop of very fine grained light green andesite or monzonite, 3 to 5% disseminated Py throughout	float	V09-0242R
Rock	GG VR 03	10	370808	6153109		04-Aug-09	andesite	GG	andesite or hornblende porphyry. rock is either strongly hornfelsed andesite or a very fine grained hornblende porphyry, non to weakly magnetic	outcrop	V09-0242R
Rock	GG VR 04	10	371307	6153285		04-Aug-09	granite	GG	grante - weakly propylitic, non to weakly magnetic. rare trace chalcopryrite	outcrop	V09-0242R
Rock	GG VR 05	10	371637	6150460		05-Aug-09	diorite	GG	diorite rubble, very fine grained, up to 20% fine grained pyrite	outcrop	V09-0242R
Rock	GG VR 06	10	371117	6150874		05-Aug-09	andesite	GG	non magnetic andesite. dark green, medium grained, non magnetic, 1 to 3% pyrite	outcrop	V09-0242R
Rock	GG VR 07	10	370964	6150710		05-Aug-09	quartz	GG	quartz - large 1 to 2 m sq angular blocks of bull white quartz with minor oxide stain. abundant small outcrops of andesite nearby	outcrop	V09-0242R
Rock	GG VR 08	10	374647	6148505		05-Aug-09	granite	GG	fine grained intrusive? With 5% pyrite on fractures	outcrop	V09-0242R
Rock	537959	10	374713	6148627		01/08/2011	monzonite	DP	7m comp grab over (strike) NW trending monzonite intrusive. Qtz and ankerite veinlets and ank on fractures. Ser? Alteration. Beside OR-29???	s/c	SMI11000342
Rock	540958	10	371034	6149328	1328 m	10/08/2011	Syenite	HS	Comp grab of 2 x 2 m of a syenite dyek. Specularite, no sulfides, weak limonite or iron-carb stain.	outcrop	SMI11000342
Rock	537955	10	374080	6149195	1302 m	11/08/2011	Mzdio	HS	Composite grab over 2 m of limonite stained, weakly iron-carb altered qtz monzodiorite	trench	SMI11000342
Rock	537956	10	374154	6149080	1313 m	11/08/2011	Mzdio	HS	Composite grab over 4 m of weakly iron-carb altd mzdio along road cut	outcrop	SMI11000342
Rock	537957	10	374375	6148821	1331 m	11/08/2011	Mzgabbro	HS	Comp grab over 10 m at south end of trench # 5, poor exposure, iron-carb + local hem altd monzodiorite to monzogabbro. Mg intrusive, iron-carb +sulfide (py+tr cpy) along fracture planes. Weak to mod magnetic	trench	SMI11000342
Rock	537958	10	374660	6148622	1316 m	11/08/2011	Mon to Mzgabbro	HS	comp grab of strongly iron-carb +ser (?) altd, mg monzonite to monzogabbroic intrusive, along road bank, no sulfides	outcrop	SMI11000342

Sample Type	Sample #	Date	ACME Job #	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	As (ppm)	Au (ppb)
Rock	OR-5a	01-Jul-05		<2	46	<4	98	<.4					40
Rock	OR-6	01-Jul-05		<2	82	<4	84	<.4					<10
Rock	OR-17	01-Jul-05		<2	38	<4	34	<.4					20
Rock	OR-29	01-Jul-05		<2	98	<4	23	<.4					<10
Rock	MR-5	01-Jul-05		<2	84	<4	23	<.4					<10
Rock	MR-8	01-Jul-05		<2	50	<4	13	<.4					118
Rock	MR-9	01-Jul-05		<2	369	<4	24	<.4					<10
Rock	MR-18	01-Jul-05		<2	283	<4	46	<.4					<10
Rock	MR-20	01-Jul-05		<2	147	<4	76	<.4					<10
Rock	MR-21	01-Jul-05		<2	95	5	51	<.4					<10
Rock	MR-22A	01-Jul-05		<2	368	<4	17	<.4					70
Rock	MR-22B	01-Jul-05		<2	12	4	28	<.4					182
Rock	GG VR 01	04-Aug-09	V09-0242R	<2	247	23	156	<0.4	13	34	2366	<2	<10
Rock	GG VR 02	04-Aug-09	V09-0242R	<2	30	21	51	<0.4	37	24	659	7	<10
Rock	GG VR 03	04-Aug-09	V09-0242R	<2	127	17	77	<0.4	33	28	714	3	<10
Rock	GG VR 04	04-Aug-09	V09-0242R	<2	35	16	71	<0.4	8	16	966	<2	<10
Rock	GG VR 05	05-Aug-09	V09-0242R	<2	13	15	28	<0.4	30	122	333	<2	20
Rock	GG VR 06	05-Aug-09	V09-0242R	<2	178	8	8	<0.4	7	27	194	<2	<10
Rock	GG VR 07	05-Aug-09	V09-0242R	<2	3	<4	3	<0.4	3	1	70	<2	<10
Rock	GG VR 08	05-Aug-09	V09-0242R	5	32	19	32	<0.4	29	102	546	6	60
Rock	537959	01/08/2011	SMI11000342	2.7	89.3	2.3	15	0.2	2.4	4.0	633	2.4	42.0
Rock	540958	10/08/2011	SMI11000342	1.5	51.7	2.2	14	<0.1	3.2	6.1	352	<0.5	130.1
Rock	537955	11/08/2011	SMI11000342	1.1	85.5	3.3	36	0.1	6.9	14.8	1017	1.3	3.1
Rock	537956	11/08/2011	SMI11000342	0.9	9.8	2.2	37	<0.1	5.4	10.3	641	0.6	10.7
Rock	537957	11/08/2011	SMI11000342	2.3	85.3	2.5	30	0.2	4.0	10.3	608	2.4	14.1
Rock	537958	11/08/2011	SMI11000342	2.8	70.0	3.0	28	0.1	3.0	9.5	988	3.3	9.2

Sample Type	Sample #	Line	Station	Zone	Easting (NAD83)	Northing (NAD83)	Date	Sampler	Certificate #
Ah Soil	537987	500	100	10	375247	6147675	01/08/2011	DP	SMI11000354
Ah Soil	537986	500	150	10	375275	6147729	01/08/2011	DP	SMI11000354
Ah Soil	537985	500	200	10	375282	6147769	01/08/2011	DP	SMI11000354
Ah Soil	537984	500	250	10	375294	6147811	01/08/2011	DP	SMI11000354
Ah Soil	537983	500	300	10	375307	6147860	01/08/2011	DP	SMI11000354
Ah Soil	537982	500	350	10	375323	6147903	01/08/2011	DP	SMI11000354
Ah Soil	537980	500	400	10	375333	6147947	01/08/2011	DP	SMI11000354
Ah Soil	537979	500	450	10	375340	6147995	01/08/2011	DP	SMI11000354
Ah Soil	537978	500	500	10	375356	6148038	01/08/2011	DP	SMI11000354
Ah Soil	537977	500	550	10	375363	6148089	01/08/2011	DP	SMI11000354
Ah Soil	537976	500	600	10	375385	6148139	01/08/2011	DP	SMI11000354
Ah Soil	537975	500	650	10	375397	6148180	01/08/2011	DP	SMI11000354
Ah Soil	537974	500	750	10	375431	6148266	01/08/2011	DP	SMI11000354
Ah Soil	537973	500	800	10	375449	6148304	01/08/2011	DP	SMI11000354
Ah Soil	537972	500	850	10	375458	6148344	01/08/2011	DP	SMI11000354
Ah Soil	537971	500	900	10	375481	6148392	01/08/2011	DP	SMI11000354
Ah Soil	537970	500	950	10	375496	6148439	01/08/2011	DP	SMI11000354
Ah Soil	537969	500	1000	10	375506	6148484	01/08/2011	DP	SMI11000354
Ah Soil	537968	500	1050	10	375519	6148529	01/08/2011	DP	SMI11000354
Ah Soil	537967	500	1100	10	375534	6148572	01/08/2011	DP	SMI11000354
Ah Soil	537966	500	1150	10	375536	6148616	01/08/2011	DP	SMI11000354
Ah Soil	537965	500	1200	10	375546	6148663	01/08/2011	DP	SMI11000354
Ah Soil	537964	500	1250	10	375567	6148699	01/08/2011	DP	SMI11000354
Ah Soil	537963	500	1300	10	375589	6148740	01/08/2011	DP	SMI11000354
Ah Soil	537962	500	1350	10	375612	6148790	01/08/2011	DP	SMI11000354
Ah Soil	537961	500	1400	10	375627	6148838	01/08/2011	DP	SMI11000354
Ah Soil	537960	500	1450	10	375640	6148879	01/08/2011	DP	SMI11000354
Ah Soil	537988	500		10	375208	6147608	01/08/2011	DP	SMI11000354
Ah Soil	537989	500		10	375170	6147561	01/08/2011	DP	SMI11000354
Ah Soil	540959	2500	0	10	373748	6149477	11/08/2011	LF	SMI11000354
Ah Soil	540960	2500	50	10	373739	6149432	11/08/2011	LF	SMI11000354
Ah Soil	540961	2500	100	10	373726	6149381	11/08/2011	LF	SMI11000354
Ah Soil	540962	2500	150	10	373709	6149332	11/08/2011	LF	SMI11000354
Ah Soil	540963	2500	200	10	373696	6149286	11/08/2011	LF	SMI11000354
Ah Soil	540964	2500	250	10	373678	6149233	11/08/2011	LF	SMI11000354
Ah Soil	540965	2500	300	10	373658	6149180	11/08/2011	LF	SMI11000354
Ah Soil	540966	2500	350	10	373641	6149127	11/08/2011	LF	SMI11000354
Ah Soil	540967	2500	400	10	373628	6149078	11/08/2011	LF	SMI11000354
Ah Soil	540968	2500	450	10	373613	6149031	11/08/2011	LF	SMI11000354
Ah Soil	540969	2500	500	10	373602	6148985	11/08/2011	LF	SMI11000354
Ah Soil	540970	2500	550	10	373588	6148931	11/08/2011	LF	SMI11000354
Ah Soil	540971	2500	600	10	373578	6148883	11/08/2011	LF	SMI11000354
Ah Soil	540972	2500	650	10	373560	6148840	11/08/2011	LF	SMI11000354
Ah Soil	540973	2500	700	10	373545	6148793	11/08/2011	LF	SMI11000354
Ah Soil	540974	2500	750	10	373529	6148747	11/08/2011	LF	SMI11000354

Sample Type	Sample #	Line	Station	Zone	Easting (NAD83)	Northing (NAD83)	Date	Sampler	Certificate #
Ah Soil	540975	2500	800	10	373511	6148698	11/08/2011	LF	SMI11000354
Ah Soil	540976	2500	850	10	373495	6148649	11/08/2011	LF	SMI11000354
Ah Soil	540977	2500	900	10	373475	6148600	11/08/2011	LF	SMI11000354
Ah Soil	540978	2500	950	10	373456	6148547	11/08/2011	LF	SMI11000354
Ah Soil	540979	2500	1000	10	373430	6148497	11/08/2011	LF	SMI11000354
Ah Soil	540980	2500	1050	10	373410	6148447	11/08/2011	LF	SMI11000354
Ah Soil	540981	2500	1100	10	373393	6148395	11/08/2011	LF	SMI11000354
Ah Soil	540982	2500	1150	10	373378	6148342	11/08/2011	LF	SMI11000354
Ah Soil	540983	2500	1200	10	373361	6148291	11/08/2011	LF	SMI11000354
Ah Soil	540984	2500	1250	10	373345	6148244	11/08/2011	LF	SMI11000354
Ah Soil	540985	2500	1300	10	373328	6148199	11/08/2011	LF	SMI11000354
Ah Soil	540950	6500	8550	10	371270	6151016	10/08/2011	LF	SMI11000351
Ah Soil	540949	6500	8600	10	371313	6151046	10/08/2011	LF	SMI11000351
Ah Soil	540948	6500	8650	10	371344	6151081	10/08/2011	LF	SMI11000351
Ah Soil	540947	6500	8700	10	371375	6151119	10/08/2011	LF	SMI11000351
Ah Soil	540946	6500	8750	10	371407	6151156	10/08/2011	LF	SMI11000351
Ah Soil	540945	6500	8800	10	371440	6151193	10/08/2011	LF	SMI11000351
Ah Soil	540944	6500	8850	10	371471	6151231	10/08/2011	LF	SMI11000351
Ah Soil	540943	6500	8900	10	371502	6151268	10/08/2011	LF	SMI11000351
Ah Soil	540942	6500	8950	10	371533	6151302	10/08/2011	LF	SMI11000351
Ah Soil	540941	6500	9000	10	371560	6151340	10/08/2011	LF	SMI11000351
Ah Soil	540940	6500	9050	10	371585	6151381	10/08/2011	LF	SMI11000351
Ah Soil	540939	6500	9100	10	371606	6151417	10/08/2011	LF	SMI11000351
Ah Soil	540938	6500	9150	10	371632	6151462	10/08/2011	LF	SMI11000351
Ah Soil	540937	6500	9200	10	371667	6151502	10/08/2011	LF	SMI11000351
Ah Soil	540936	6500	9250	10	371697	6151543	10/08/2011	LF	SMI11000351
Ah Soil	540935	6500	9300	10	371735	6151581	10/08/2011	LF	SMI11000351
Ah Soil	540934	6500	9350	10	371765	6151610	10/08/2011	LF	SMI11000351
Ah Soil	540933	6500	9400	10	371800	6151646	10/08/2011	LF	SMI11000351
Ah Soil	540932	6500	9450	10	371837	6151680	10/08/2011	LF	SMI11000351
Ah Soil	540931	6500	9500	10	371868	6151713	10/08/2011	LF	SMI11000351
Ah Soil	540930	6500	9550	10	371902	6151751	10/08/2011	LF	SMI11000351
Ah Soil	540929	6500	9600	10	371951	6151780	10/08/2011	LF	SMI11000351
Ah Soil	540928	6500	9650	10	371993	6151828	10/08/2011	LF	SMI11000351
Ah Soil	540927	6500	9700	10	372031	6151870	10/08/2011	LF	SMI11000351
Ah Soil	540926	6500	9750	10	372065	6151909	10/08/2011	LF	SMI11000351
Ah Soil	540925	6500	9800	10	372095	6151943	10/08/2011	LF	SMI11000351
Ah Soil	540924	6500	9850	10	372127	6151985	10/08/2011	LF	SMI11000351
Ah Soil	540923	6500	9900	10	372159	6152023	10/08/2011	LF	SMI11000351
Ah Soil	540922	6500	9950	10	372192	6152066	10/08/2011	LF	SMI11000351
Ah Soil	540921	6500	10000	10	372226	6152092	10/08/2011	LF	SMI11000351
Ah Soil	1115096	1000E	0	10	375280	6149013	11/08/2011	HS	SMI11000354
Ah Soil	1115097	1000E	100	10	375245	6148937	11/08/2011	HS	SMI11000354
Ah Soil	1115098	1000E	150	10	375230	6148893	11/08/2011	HS	SMI11000354
Ah Soil	1115099	1000E	200	10	375199	6148845	11/08/2011	HS	SMI11000354

Sample Type	Sample #	Line	Station	Zone	Easting (NAD83)	Northing (NAD83)	Date	Sampler	Certificate #
Ah Soil	1115100	1000E	250	10	375156	6148813	11/08/2011	HS	SMI11000354
Ah Soil	540501	1000E	300	10	375130	6148755	11/08/2011	HS	SMI11000476
Ah Soil	540502	1000E	350	10	375123	6148707	11/08/2011	HS	SMI11000476
Ah Soil	540503	1000E	400	10	375109	6148662	11/08/2011	HS	SMI11000476
Ah Soil	540504	1000E	450	10	375110	6148625	11/08/2011	HS	SMI11000476
Ah Soil	540505	1000E	500	10	375094	6148564	11/08/2011	HS	SMI11000476
Ah Soil	540506	1000E	550	10	375063	6148528	11/08/2011	HS	SMI11000476
Ah Soil	540507	1000E	600	10	375059	6148476	11/08/2011	HS	SMI11000476
Ah Soil	540508	1000E	650	10	375039	6148430	11/08/2011	HS	SMI11000476
Ah Soil	540509	1000E	700	10	375038	6148380	11/08/2011	HS	SMI11000476
Ah Soil	540510	1000E	750	10	375029	6148331	11/08/2011	HS	SMI11000476
Ah Soil	540511	1000E	800	10	375014	6148279	11/08/2011	HS	SMI11000476
Ah Soil	540512	1000E	850	10	375006	6148223	11/08/2011	HS	SMI11000476
Ah Soil	540513	1000E	900	10	374978	6148175	11/08/2011	HS	SMI11000476
Ah Soil	540514	1000E	950	10	374951	6148143	11/08/2011	HS	SMI11000476
Ah Soil	540515	1000E	1000	10	374912	6148095	11/08/2011	HS	SMI11000476
Ah Soil	540516	1000E	1050	10	374892	6148049	11/08/2011	HS	SMI11000476
Ah Soil	540517	1000E	1100	10	374882	6147999	11/08/2011	HS	SMI11000476
Ah Soil	540518	1000E	1150	10	374860	6147955	11/08/2011	HS	SMI11000476
Ah Soil	540519	1000E	1200	10	374827	6147915	11/08/2011	HS	SMI11000476
Ah Soil	540520	1000E	1250	10	374818	6147867	11/08/2011	HS	SMI11000476
Ah Soil	540521	1000E	1300	10	374811	6147810	11/08/2011	HS	SMI11000476
Ah Soil	540522	1000E	1350	10	374805	6147761	11/08/2011	HS	SMI11000476
Ah Soil	540523	1000E	1400	10	374808	6147712	11/08/2011	HS	SMI11000476
Ah Soil	1115095	6000N	8200	10	371380	6150450	10/08/2011	HS	SMI11000351
Ah Soil	1115094	6000N	8250	10	371413	6150485	10/08/2011	HS	SMI11000351
Ah Soil	1115093	6000N	8300	10	371449	6150528	10/08/2011	HS	SMI11000351
Ah Soil	1115092	6000N	8350	10	371480	6150559	10/08/2011	HS	SMI11000351
Ah Soil	1115091	6000N	8400	10	371515	6150597	10/08/2011	HS	SMI11000351
Ah Soil	1115090	6000N	8450	10	371548	6150637	10/08/2011	HS	SMI11000351
Ah Soil	1115089	6000N	8500	10	371582	6150673	10/08/2011	HS	SMI11000351
Ah Soil	1115088	6000N	8550	10	371614	6150709	10/08/2011	HS	SMI11000351
Ah Soil	1115087	6000N	8600	10	371651	6150748	10/08/2011	HS	SMI11000351
Ah Soil	1115086	6000N	8650	10	371684	6150781	10/08/2011	HS	SMI11000351
Ah Soil	1115085	6000N	8700	10	371719	6150817	10/08/2011	HS	SMI11000351
Ah Soil	1115084	6000N	8750	10	371747	6150849	10/08/2011	HS	SMI11000351
Ah Soil	1115083	6000N	8800	10	371784	6150891	10/08/2011	HS	SMI11000351
Ah Soil	1115082	6000N	8850	10	371816	6150930	10/08/2011	HS	SMI11000351
Ah Soil	1115081	6000N	8900	10	371856	6150974	10/08/2011	HS	SMI11000351
Ah Soil	1115080	6000N	8950	10	371891	6151010	10/08/2011	HS	SMI11000351
Ah Soil	1115079	6000N	9000	10	371921	6151041	10/08/2011	HS	SMI11000351
Ah Soil	1115078	6000N	9050	10	371954	6151079	10/08/2011	HS	SMI11000351
Ah Soil	1115077	6000N	9100	10	371988	6151116	10/08/2011	HS	SMI11000351
Ah Soil	1115076	6000N	9150	10	372015	6151151	10/08/2011	HS	SMI11000351
Ah Soil	1115075	6000N	9200	10	372042	6151187	10/08/2011	HS	SMI11000351

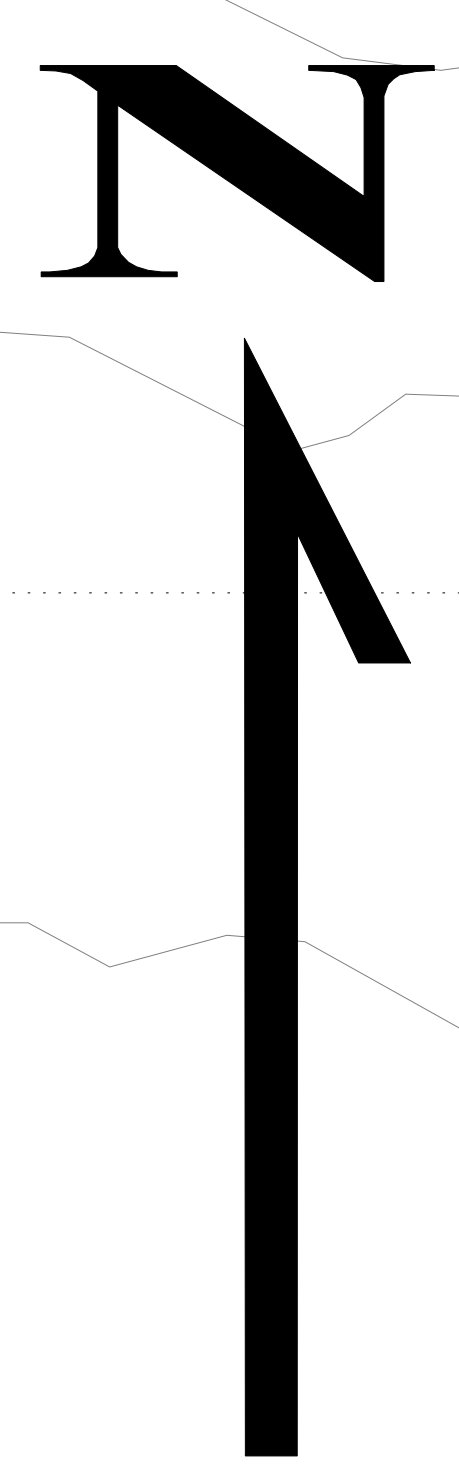
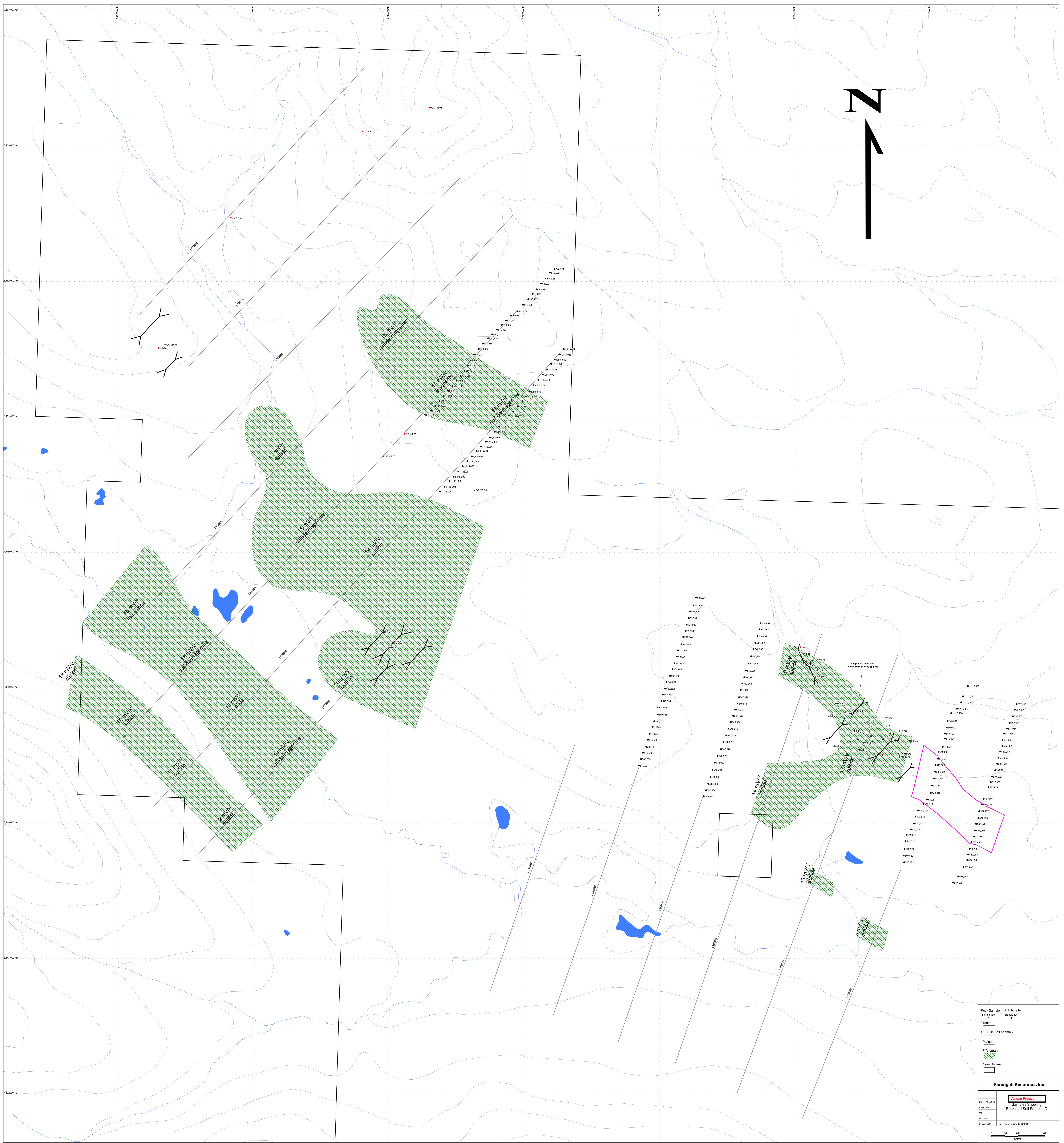
Sample Type	Sample #	Line	Station	Zone	Easting (NAD83)	Northing (NAD83)	Date	Sampler	Certificate #
Ah Soil	1115074	6000N	9250	10	372071	6151234	10/08/2011	HS	SMI11000351
Ah Soil	1115073	6000N	9300	10	372106	6151275	10/08/2011	HS	SMI11000351
Ah Soil	1115072	6000N	9350	10	372139	6151313	10/08/2011	HS	SMI11000351
Ah Soil	1115071	6000N	9400	10	372170	6151352	10/08/2011	HS	SMI11000351
Ah Soil	1115070	6000N	9450	10	372200	6151392	10/08/2011	HS	SMI11000351
Ah Soil	1115069	6000N	9500	10	372227	6151424	10/08/2011	HS	SMI11000351
Ah Soil	1115068	6000N	9550	10	372265	6151461	10/08/2011	HS	SMI11000351
Ah Soil	1115067	6000N	9600	10	372294	6151501	10/08/2011	HS	SMI11000351
Ah Soil	540987	Y	-100	10	374564	6148643	11/08/2011	LF	SMI11000354
Ah Soil	540988	Y	100	10	374768	6148620	11/08/2011	LF	SMI11000354

Sample Type	Sample #	Certificate #	IS-0.5 g Analysis	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	As (ppm)	Au (ppb)
Ah Soil	537987	SMI11000354	N	1.19	9.67	10.51	36.1	305	6.0	2.6	361	0.2	6.4
Ah Soil	537986	SMI11000354	N	0.70	14.75	10.36	41.4	145	5.7	3.8	1241	0.3	7.4
Ah Soil	537985	SMI11000354	N	0.82	13.43	7.57	20.8	452	6.1	3.3	212	0.4	2.7
Ah Soil	537984	SMI11000354	N	0.91	14.92	11.43	33.8	1210	6.9	2.8	208	<0.1	6.0
Ah Soil	537983	SMI11000354	N	0.82	11.89	5.00	40.8	242	3.8	2.3	520	<0.1	787.3
Ah Soil	537982	SMI11000354	N	0.77	15.61	8.26	43.1	243	7.2	4.2	768	<0.1	2.6
Ah Soil	537980	SMI11000354	Y	4.68	48.07	2.74	18.4	386	8.0	6.7	244	0.7	14.8
Ah Soil	537979	SMI11000354	N	3.84	106.76	3.07	34.4	491	12.5	14.6	1901	1.1	14.7
Ah Soil	537978	SMI11000354	N	2.54	187.10	8.58	34.4	750	29.1	42.8	1342	2.1	8.0
Ah Soil	537977	SMI11000354	Y	11.09	124.30	4.37	16.9	2137	14.5	15.4	513	2.2	11.1
Ah Soil	537976	SMI11000354	N	0.85	14.68	5.38	20.6	267	6.5	5.4	1119	0.2	8.0
Ah Soil	537975	SMI11000354	Y	0.84	6.21	6.31	21.1	419	2.8	1.9	551	2.4	1.0
Ah Soil	537974	SMI11000354	Y	0.67	6.51	4.84	26.9	616	3.7	1.1	380	1.5	1.5
Ah Soil	537973	SMI11000354	N	0.81	12.21	6.26	22.9	138	5.0	3.5	354	0.7	12.7
Ah Soil	537972	SMI11000354	Y	0.59	5.90	3.36	20.2	351	3.7	1.4	75	<0.1	11.3
Ah Soil	537971	SMI11000354	Y	3.04	61.57	3.56	18.0	474	4.2	4.8	4032	<0.1	4.3
Ah Soil	537970	SMI11000354	Y	2.59	13.57	3.26	14.8	168	1.6	1.8	420	<0.1	2.4
Ah Soil	537969	SMI11000354	Y	1.61	45.45	2.34	18.8	509	3.5	15.4	2153	0.6	8.0
Ah Soil	537968	SMI11000354	N	1.47	15.94	9.31	69.6	1045	6.1	4.6	4152	2.0	19.9
Ah Soil	537967	SMI11000354	Y	1.11	31.63	3.83	17.4	605	6.0	3.1	53	0.3	4.3
Ah Soil	537966	SMI11000354	Y	1.08	14.58	4.67	13.9	268	3.7	5.4	60	1.4	1.6
Ah Soil	537965	SMI11000354	Y	0.73	8.78	6.46	23.9	281	3.8	2.0	169	1.6	34.0
Ah Soil	537964	SMI11000354	Y	1.82	26.46	5.70	20.7	867	6.8	8.1	507	0.6	3.8
Ah Soil	537963	SMI11000354	Y	1.25	49.83	1.97	12.2	703	7.7	4.6	38	0.3	5.8
Ah Soil	537962	SMI11000354	Y	1.28	9.17	8.70	25.9	592	4.8	6.0	84	0.4	1.8
Ah Soil	537961	SMI11000354	Y	1.59	71.67	5.66	26.9	910	13.2	7.9	1076	2.0	5.3
Ah Soil	537960	SMI11000354	N	0.83	58.83	3.82	13.9	848	7.2	4.5	103	<0.1	4.0
Ah Soil	537988	SMI11000354	N	1.02	12.71	7.10	17.4	325	8.9	8.7	134	<0.1	2.8
Ah Soil	537989	SMI11000354	N	0.84	13.93	7.04	45.7	773	6.1	4.5	692	0.3	8.4
Ah Soil	540959	SMI11000354	Y	0.95	24.41	7.67	21.5	889	5.2	4.1	128	0.2	2.1
Ah Soil	540960	SMI11000354	Y	1.01	11.79	5.75	26.0	512	5.1	3.5	123	<0.1	4.1
Ah Soil	540961	SMI11000354	Y	0.78	26.03	4.16	20.4	837	8.1	4.3	148	0.4	3.2
Ah Soil	540962	SMI11000354	Y	1.33	51.11	8.47	27.0	1131	9.9	24.8	2417	0.2	1.7
Ah Soil	540963	SMI11000354	Y	0.99	45.80	2.44	18.4	767	8.7	5.8	162	<0.1	3.3
Ah Soil	540964	SMI11000354	Y	1.02	47.20	4.14	21.4	365	9.4	18.5	308	0.4	4.5
Ah Soil	540965	SMI11000354	N	1.03	53.01	10.23	36.2	850	23.1	71.8	2095	0.3	3.1
Ah Soil	540966	SMI11000354	Y	1.33	19.08	3.82	21.0	325	5.3	4.5	158	<0.1	2.5
Ah Soil	540967	SMI11000354	N	1.28	67.45	5.11	21.7	453	13.9	18.2	3363	<0.1	2.9
Ah Soil	540968	SMI11000354	Y	1.63	62.93	1.92	11.5	431	9.7	2.9	656	0.4	3.5
Ah Soil	540969	SMI11000354	N	2.09	18.50	5.91	14.8	330	5.6	6.2	745	0.3	1.5
Ah Soil	540970	SMI11000354	Y	2.75	28.67	3.63	22.0	264	6.1	21.5	3597	1.7	27.4
Ah Soil	540971	SMI11000354	Y	4.66	26.58	2.87	32.6	82	2.0	7.6	8310	1.2	0.9
Ah Soil	540972	SMI11000354	Y	1.19	15.96	5.37	22.8	54	2.8	2.0	82	0.9	1.8
Ah Soil	540973	SMI11000354	N	1.11	23.60	5.34	58.7	215	4.8	5.5	1007	0.2	<0.2
Ah Soil	540974	SMI11000354	N	0.88	8.98	8.44	44.5	161	3.7	2.5	205	<0.1	0.2
Ah Soil	540975	SMI11000354	Y	2.06	21.58	1.63	28.6	45	3.2	3.1	3394	1.3	3.1
Ah Soil	540976	SMI11000354	Y	0.89	8.02	8.15	26.7	302	4.3	2.6	286	1.1	<0.2
Ah Soil	540977	SMI11000354	Y	0.93	24.27	3.81	36.4	699	7.0	6.9	59	1.7	12.3
Ah Soil	540978	SMI11000354	Y	2.13	45.18	2.76	14.9	957	6.5	15.4	2470	2.0	16.3
Ah Soil	540979	SMI11000354	N	0.93	8.30	6.20	49.5	695	2.5	1.5	737	<0.1	<0.2
Ah Soil	540980	SMI11000354	Y	0.94	13.42	8.25	58.2	802	3.8	2.5	608	1.8	2.7
Ah Soil	540981	SMI11000354	N	1.58	8.00	7.23	12.9	149	2.2	1.6	203	0.3	2.5
Ah Soil	540982	SMI11000354	Y	2.39	23.11	2.76	11.9	248	4.6	39.0	3135	1.2	0.7
Ah Soil	540983	SMI11000354	N	0.72	4.11	6.82	47.4	1461	2.1	0.8	1475	<0.1	1.0
Ah Soil	540984	SMI11000354	N	0.87	6.01	6.75	51.8	1680	2.8	1.0	960	<0.1	3.4
Ah Soil	540985	SMI11000354	N	0.91	14.17	6.12	34.1	1235	5.6	26.0	655	<0.1	1.2
Ah Soil	540950	SMI11000351	N	1.35	14.38	9.38	25.8	303	4.9	6.2	228	0.5	0.2
Ah Soil	540949	SMI11000351	Y	0.71	7.46	4.84	29.2	264	1.4	0.8	415	0.4	1.8
Ah Soil	540948	SMI11000351	Y	0.65	10.53	12.24	43.3	85	4.3	5.2	235	0.5	2.1
Ah Soil	540947	SMI11000351	N	0.39	7.99	6.39	270.7	56	3.0	2.5	>10000	0.1	<0.2
Ah Soil	540946	SMI11000351	N	0.59	14.20	7.79	38.8	819	3.8	7.1	2041	3.2	1.1
Ah Soil	540945	SMI11000351	N	1.92	53.71	10.67	27.8	433	8.0	14.8	599	0.1	<0.2
Ah Soil	540944	SMI11000351	N	1.65	21.74	10.49	24.7	392	6.5	6.0	1042	<0.1	<0.2
Ah Soil	540943	SMI11000351	N	1.49	22.62	4.91	13.8	499	4.7	5.1	143	0.1	<0.2
Ah Soil	540942	SMI11000351	Y	0.40	5.03	4.93	51.7	487	2.0	1.2	2551	0.3	0.8
Ah Soil	540941	SMI11000351	Y	0.73	42.07	5.91	11.6	545	4.9	17.8	1459	0.6	<0.2

Sample Type	Sample #	Certificate #	IS-0.5 g Analysis	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	As (ppm)	Au (ppb)
Ah Soil	540940	SMI11000351	Y	0.48	29.50	3.89	18.8	853	7.7	16.0	1446	0.8	<0.2
Ah Soil	540939	SMI11000351	N	0.49	8.75	7.00	52.8	1009	3.0	4.5	894	<0.1	1.1
Ah Soil	540938	SMI11000351	Y	1.37	76.32	2.44	34.5	255	24.0	12.7	1633	0.7	3.9
Ah Soil	540937	SMI11000351	N	1.60	74.30	5.39	11.8	475	4.9	4.5	1067	<0.1	3.3
Ah Soil	540936	SMI11000351	N	1.39	45.16	8.61	21.8	354	9.9	7.9	1123	0.8	2.9
Ah Soil	540935	SMI11000351	N	1.40	135.93	17.22	38.3	421	25.1	15.7	2589	1.9	1.1
Ah Soil	540934	SMI11000351	N	1.37	23.33	10.43	33.5	347	11.5	10.0	1275	2.0	0.8
Ah Soil	540933	SMI11000351	N	1.99	19.75	11.15	31.1	233	8.8	7.0	808	0.8	1.8
Ah Soil	540932	SMI11000351	N	1.29	20.35	10.70	38.0	152	8.1	6.1	1569	0.2	1.0
Ah Soil	540931	SMI11000351	N	0.73	13.76	11.03	103.7	523	9.7	9.3	2657	0.4	1.7
Ah Soil	540930	SMI11000351	N	1.12	9.64	8.23	33.5	283	4.3	2.8	272	0.2	0.8
Ah Soil	540929	SMI11000351	N	1.00	14.02	16.84	50.9	501	10.1	7.0	3093	0.8	1.6
Ah Soil	540928	SMI11000351	N	0.80	6.51	9.78	44.8	374	3.9	2.4	394	0.4	0.9
Ah Soil	540927	SMI11000351	N	0.82	8.99	8.10	33.2	769	2.8	1.6	395	0.8	<0.2
Ah Soil	540926	SMI11000351	N	0.85	10.04	11.04	30.1	497	4.2	5.5	2466	<0.1	<0.2
Ah Soil	540925	SMI11000351	N	1.81	28.11	12.32	53.7	306	13.1	9.4	685	1.3	3.6
Ah Soil	540924	SMI11000351	N	1.82	61.87	6.18	28.4	366	13.8	9.9	1385	0.9	2.8
Ah Soil	540923	SMI11000351	N	1.58	47.94	5.40	27.0	259	7.0	10.2	1542	0.3	1.5
Ah Soil	540922	SMI11000351	N	0.84	6.22	10.27	69.6	262	4.4	3.5	212	1.1	0.7
Ah Soil	540921	SMI11000351	N	0.76	8.19	8.35	39.4	149	3.1	2.4	441	0.5	0.9
Ah Soil	1115096	SMI11000354	N	0.32	27.58	4.56	38.4	188	3.2	6.9	397	0.2	0.6
Ah Soil	1115097	SMI11000354	N	1.29	16.98	7.65	40.3	453	8.9	6.6	560	1.0	1.8
Ah Soil	1115098	SMI11000354	N	1.83	68.41	6.00	42.3	104	11.3	17.3	1941	1.4	14.6
Ah Soil	1115099	SMI11000354	N	1.27	14.58	5.97	21.5	679	6.8	8.7	164	0.3	15.7
Ah Soil	1115100	SMI11000354	N	1.59	25.42	8.55	44.6	1744	11.6	10.8	1856	0.8	8.3
Ah Soil	540501	SMI11000476	N	0.89	11.34	6.21	18.3	1016	4.0	3.7	134	1.1	18.0
Ah Soil	540502	SMI11000476	N	0.58	9.17	4.91	16.5	316	3.8	3.2	107	1.0	5.6
Ah Soil	540503	SMI11000476	N	0.88	15.49	5.98	30.7	694	6.2	5.7	327	1.8	13.0
Ah Soil	540504	SMI11000476	N	1.23	10.52	7.53	41.2	941	4.2	4.0	533	1.2	9.1
Ah Soil	540505	SMI11000476	N	1.55	24.87	4.48	17.3	1930	4.3	4.6	259	0.7	2.7
Ah Soil	540506	SMI11000476	N	5.24	60.21	4.61	11.7	704	3.4	3.1	69	0.9	3.4
Ah Soil	540507	SMI11000476	N	0.84	59.33	5.83	27.4	2420	7.4	10.3	450	0.9	5.7
Ah Soil	540508	SMI11000476	N	2.33	135.87	6.50	26.4	1721	11.7	6.8	903	0.8	3.2
Ah Soil	540509	SMI11000476	N	2.40	20.39	5.16	15.6	464	3.2	3.8	63	1.3	77.1
Ah Soil	540510	SMI11000476	Y	1.22	173.50	2.22	6.6	1756	6.6	1.0	201	0.5	15.8
Ah Soil	540511	SMI11000476	Y	1.14	191.72	2.06	7.0	2371	6.5	1.5	439	0.2	18.4
Ah Soil	540512	SMI11000476	N	1.32	100.63	5.51	33.3	1796	15.0	11.3	575	2.7	7.2
Ah Soil	540513	SMI11000476	Y	0.55	6.22	4.54	26.0	297	2.4	2.0	151	0.4	7.9
Ah Soil	540514	SMI11000476	N	0.95	21.59	4.65	22.2	580	4.9	6.0	241	0.5	12.1
Ah Soil	540515	SMI11000476	N	0.33	6.58	6.66	16.5	196	2.0	1.2	120	0.3	1.9
Ah Soil	540516	SMI11000476	N	0.29	6.95	6.12	17.9	50	3.9	1.7	62	0.2	1.9
Ah Soil	540517	SMI11000476	N	0.73	13.99	5.38	11.2	173	4.2	3.5	79	0.5	2.7
Ah Soil	540518	SMI11000476	N	0.58	22.76	3.85	10.4	1004	3.8	7.1	96	0.5	3.7
Ah Soil	540519	SMI11000476	Y	0.92	8.23	10.36	30.7	468	3.5	5.1	1067	0.4	5.8
Ah Soil	540520	SMI11000476	N	0.54	11.40	8.89	22.5	973	4.2	2.3	216	0.8	5.1
Ah Soil	540521	SMI11000476	N	0.72	8.24	7.03	39.6	746	3.5	3.0	1170	0.7	1.2
Ah Soil	540522	SMI11000476	N	0.75	17.16	7.68	47.7	553	6.7	4.6	935	0.5	0.7
Ah Soil	540523	SMI11000476	N	0.65	7.36	6.58	38.8	1363	2.5	1.9	396	0.7	0.5
Ah Soil	1115095	SMI11000351	N	1.67	9.36	5.23	23.7	90	6.1	6.2	973	0.9	7.0
Ah Soil	1115094	SMI11000351	N	0.48	7.42	6.26	20.0	148	5.1	3.9	350	0.7	21.4
Ah Soil	1115093	SMI11000351	N	0.42	7.36	10.17	36.0	616	4.5	2.3	351	0.3	1.9
Ah Soil	1115092	SMI11000351	N	0.28	5.89	6.39	13.2	340	4.5	3.6	94	0.6	16.6
Ah Soil	1115091	SMI11000351	N	0.41	11.43	7.64	27.8	359	6.4	4.6	840	0.5	3.2
Ah Soil	1115090	SMI11000351	N	0.33	7.64	7.52	14.3	1971	4.2	2.2	44	0.6	7.9
Ah Soil	1115089	SMI11000351	N	0.27	7.67	6.15	18.4	778	6.3	3.7	355	0.6	5.4
Ah Soil	1115088	SMI11000351	N	0.25	12.47	5.11	16.6	1246	10.8	5.1	62	0.8	7.2
Ah Soil	1115087	SMI11000351	N	0.21	12.51	5.82	16.8	349	9.1	5.1	96	0.3	4.0
Ah Soil	1115086	SMI11000351	N	0.23	12.11	7.63	18.3	471	6.0	4.9	60	<0.1	17.8
Ah Soil	1115085	SMI11000351	N	0.24	7.52	7.91	19.2	698	3.0	2.5	176	0.6	6.4
Ah Soil	1115084	SMI11000351	N	0.29	13.68	6.76	18.4	958	4.8	3.9	171	0.3	10.5
Ah Soil	1115083	SMI11000351	N	0.54	41.32	4.19	23.9	720	10.4	10.5	846	1.6	1.5
Ah Soil	1115082	SMI11000351	N	0.32	35.51	5.31	12.5	581	5.7	3.5	98	3.1	2.5
Ah Soil	1115081	SMI11000351	N	0.25	23.66	6.78	163.3	409	9.0	13.1	>10000	1.1	13.6
Ah Soil	1115080	SMI11000351	N	1.44	163.35	6.15	33.6	1033	26.4	14.7	1024	1.0	4.2
Ah Soil	1115079	SMI11000351	N	1.30	133.35	3.96	44.5	1655	23.1	17.8	758	2.8	2.2
Ah Soil	1115078	SMI11000351	N	0.51	12.05	5.74	21.9	224	6.4	8.3	136	2.7	16.7

Sample Type	Sample #	Certificate #	IS-0.5 g Analysis	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	As (ppm)	Au (ppb)
Ah Soil	1115077	SMI11000351	N	0.52	19.33	5.68	49.7	196	8.9	17.5	3478	2.5	2.0
Ah Soil	1115076	SMI11000351	N	0.21	15.12	8.01	25.9	421	5.2	4.0	130	3.1	1.5
Ah Soil	1115075	SMI11000351	N	0.31	12.88	6.28	21.7	200	6.8	5.4	526	3.1	4.6
Ah Soil	1115074	SMI11000351	N	0.43	14.64	7.26	31.7	620	6.6	6.0	230	3.0	3.0
Ah Soil	1115073	SMI11000351	N	1.00	177.66	3.55	66.5	694	25.2	19.7	837	3.3	3.8
Ah Soil	1115072	SMI11000351	N	0.97	10.67	6.06	24.3	280	8.2	6.5	186	2.3	2.5
Ah Soil	1115071	SMI11000351	N	1.80	31.74	5.98	33.7	307	14.3	10.9	461	3.0	0.8
Ah Soil	1115070	SMI11000351	N	2.34	23.69	7.53	41.1	279	29.8	16.6	343	2.8	2.9
Ah Soil	1115069	SMI11000351	N	2.67	34.13	11.32	46.7	847	21.7	16.8	2088	3.6	0.6
Ah Soil	1115068	SMI11000351	N	3.06	151.49	7.07	88.8	351	34.5	23.6	2276	3.9	1.2
Ah Soil	1115067	SMI11000351	N	0.77	22.32	8.52	50.0	811	9.9	11.5	443	3.7	160.6
Ah Soil	540987	SMI11000354	N	1.52	7.66	6.44	31.6	639	1.4	0.5	412	<0.1	0.3
Ah Soil	540988	SMI11000354	N	1.27	7.76	6.48	30.0	464	2.3	1.7	353	0.4	3.6

Appendix D – Maps of Sample Locations and Results



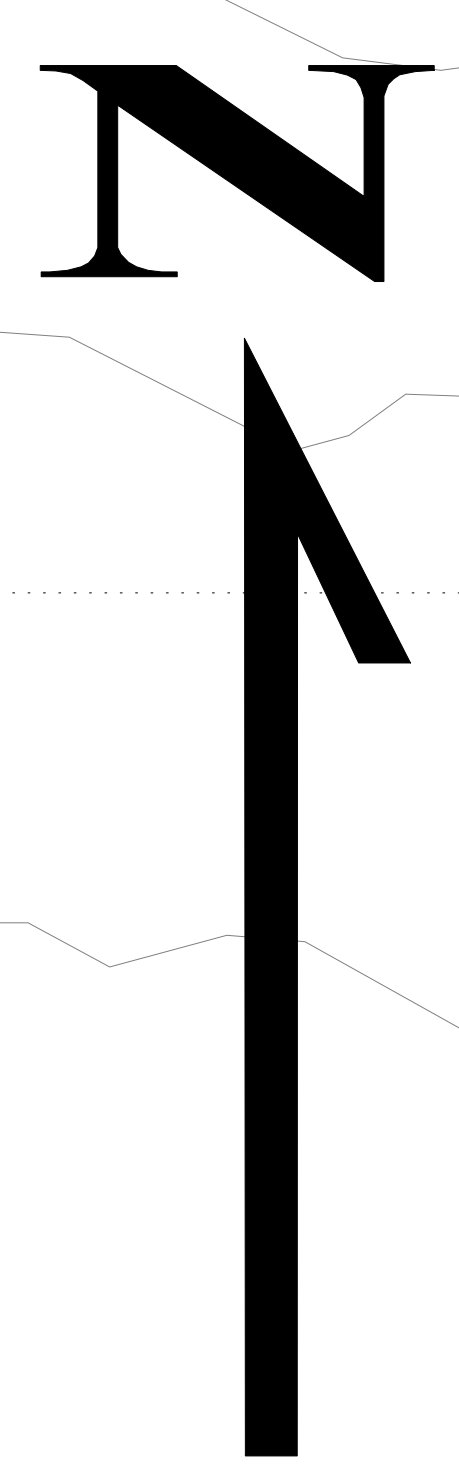
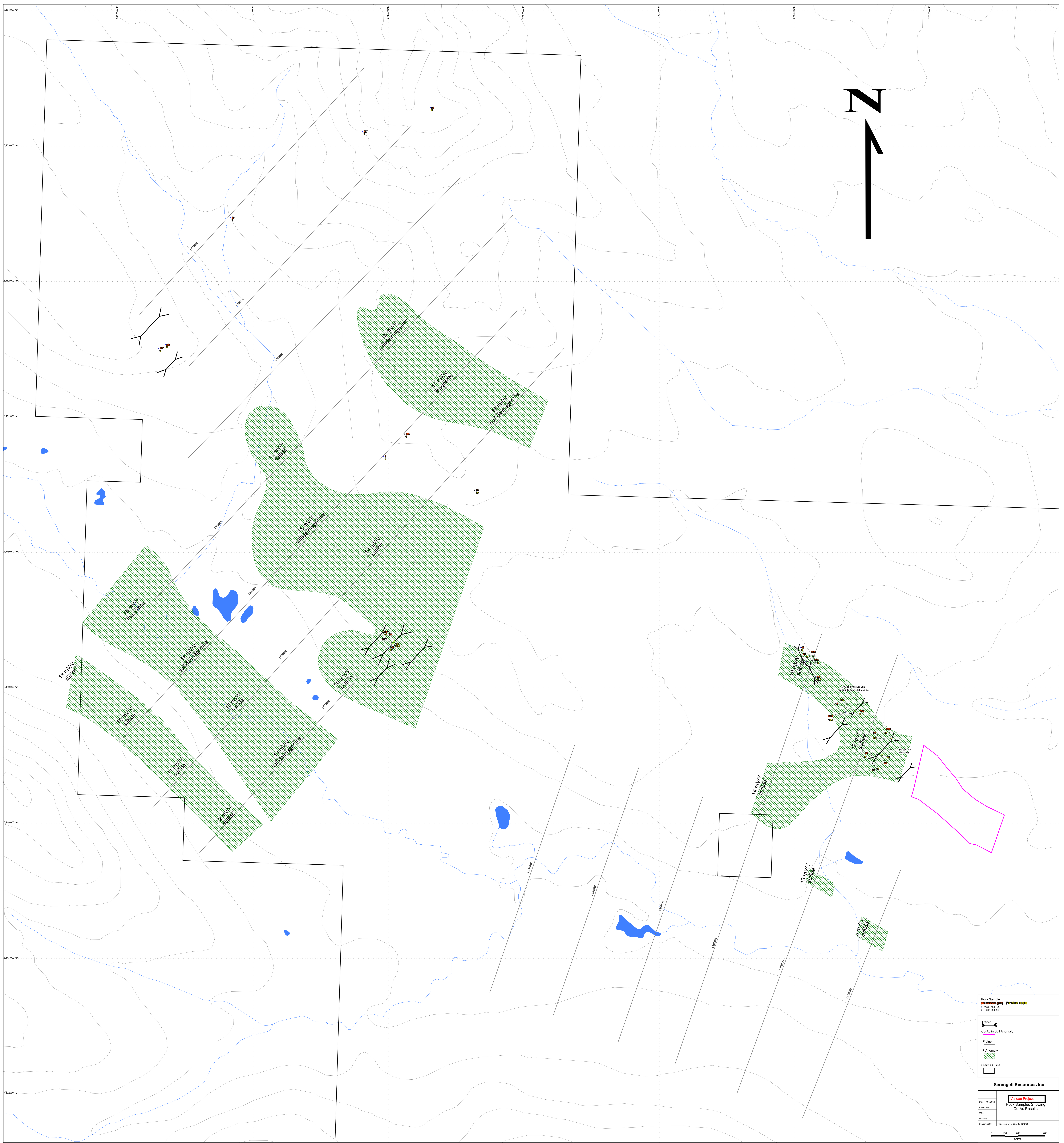
Rock Sample	Soil Sample
(Symbol)	(Symbol)
Trench	
Cu/Au in Soil Anomaly	
IP Line	
IP Anomaly	
Claim Outline	

Serengeti Resources Inc

Date: 11/19/2012
 Author: L.M.
 Title:
 Sheets:
 Scale: 1:5000
 Projection: UTM Zone 18 (SAD 83)

Yellow Project
 Samples Showing
 Rock and Soil Sample ID

0 100 200 400 meters



Rock Sample
 (Red square with black dot) (See notes to page)
 (Black square with black dot) (See notes to page)

Trench
 (Black line with perpendicular ticks)

Cu-Au in Soil Anomaly
 (Green hatched area)

IP Line
 (Red line)

IP Anomaly
 (Green hatched area)

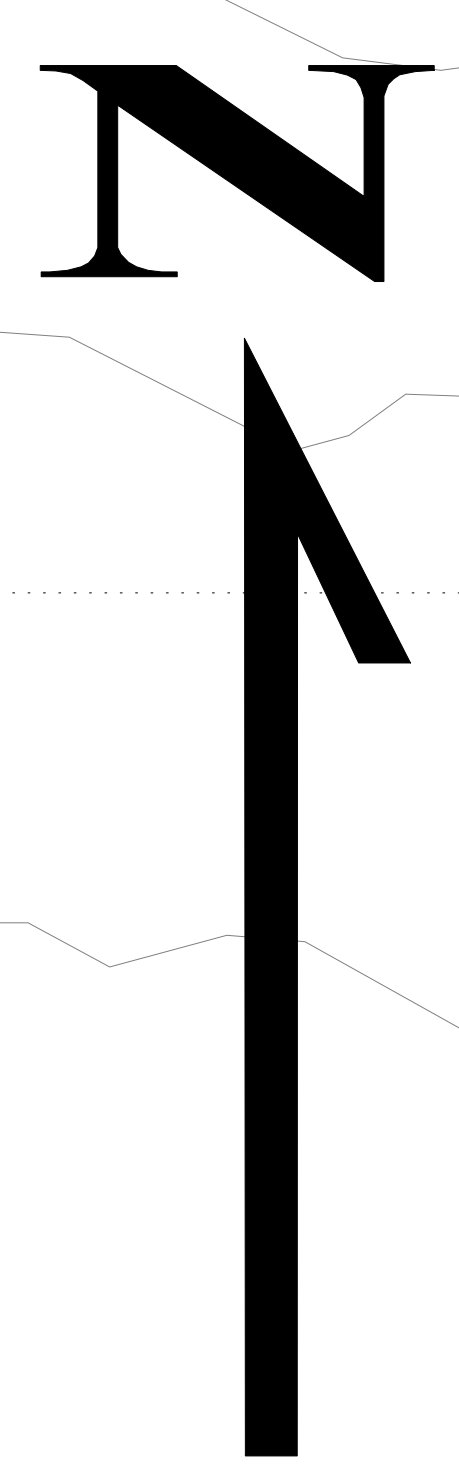
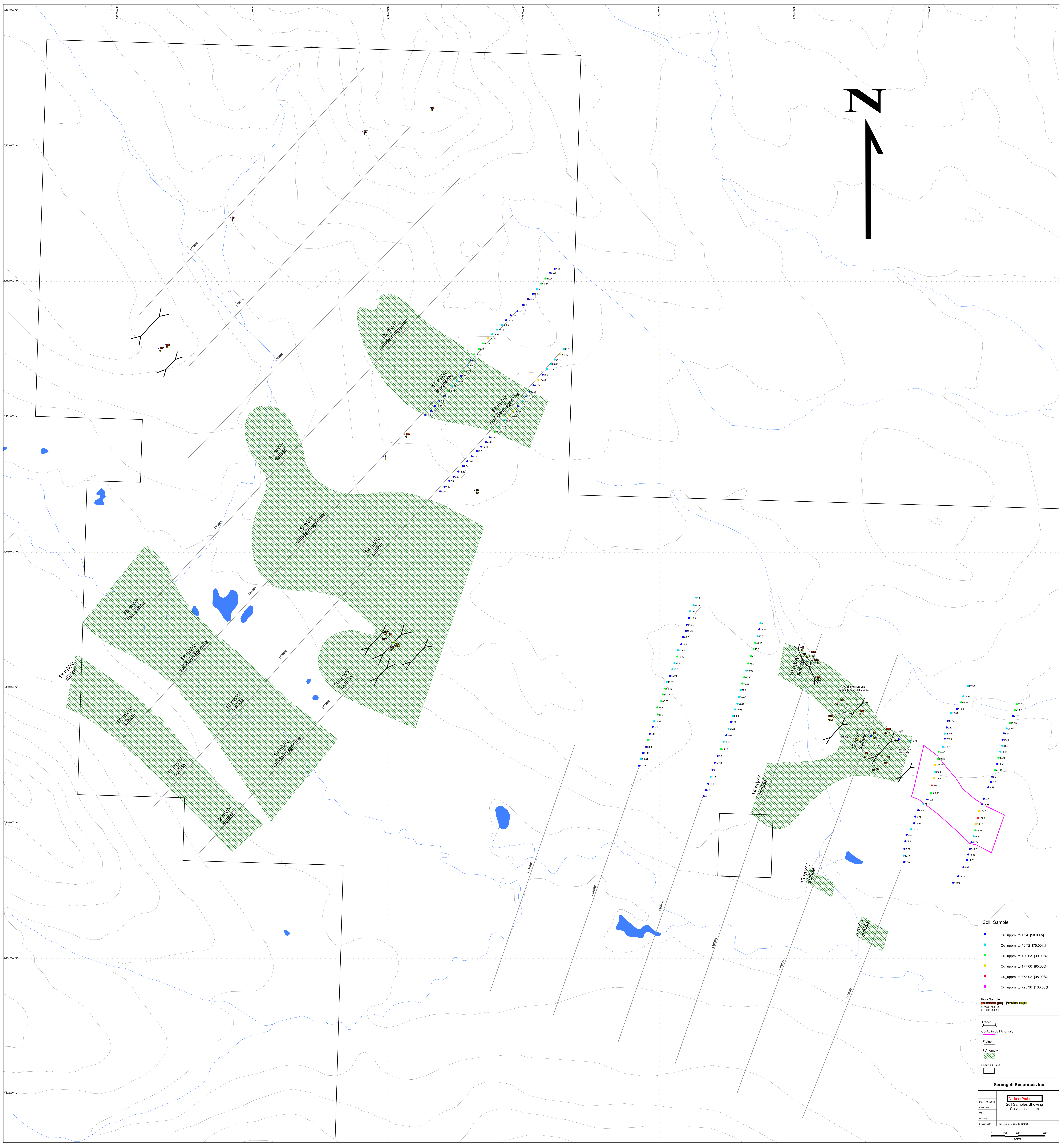
Claim Outline
 (Pink outline)

Serengeti Resources Inc

Title: 1518/0012
 Author: J.M.
 Date:
 Scale: 1:5000
 Projection: UTM Zone 18 S (WGS 84)

1518/0012
Rock Samples Showing
Cu-Au Results

0 100 200 400
 meters



Soil Sample

- Cu_u uppm to 15.4 [50.00%]
- Cu_u uppm to 40.72 [75.00%]
- Cu_u uppm to 100.63 [90.00%]
- Cu_u uppm to 177.66 [95.00%]
- Cu_u uppm to 378.02 [98.00%]
- Cu_u uppm to 725.36 [100.00%]

Rock Sample
● Cu values in ppm (50 values to 100)
● Au values in ppm (20 values to 20)

Trench
— Cu-Au in Soil Anomaly

IP Line
— IP Anomaly

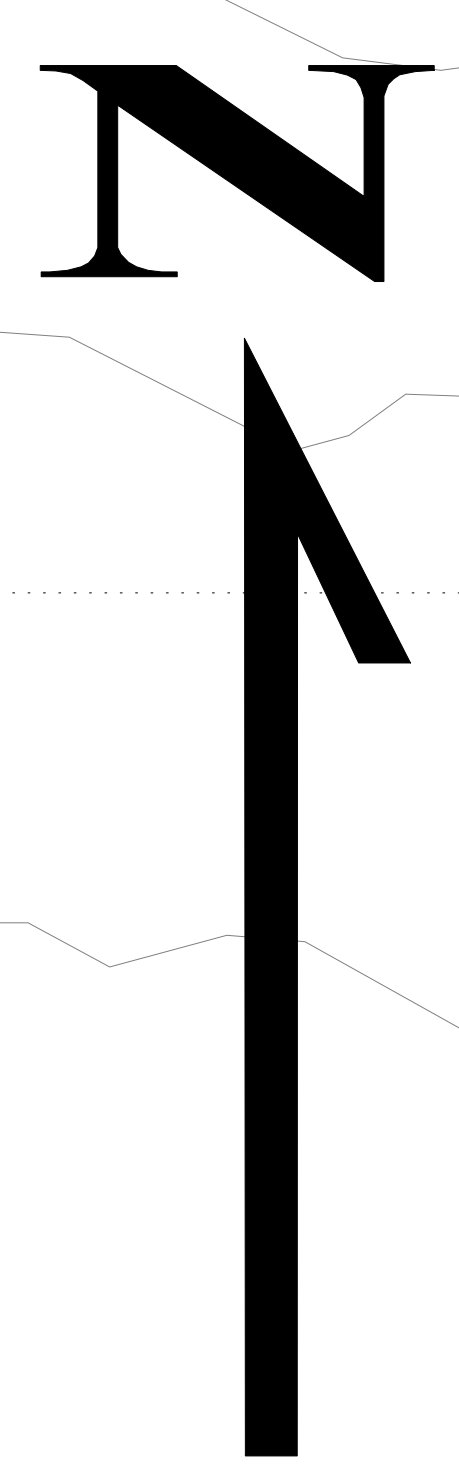
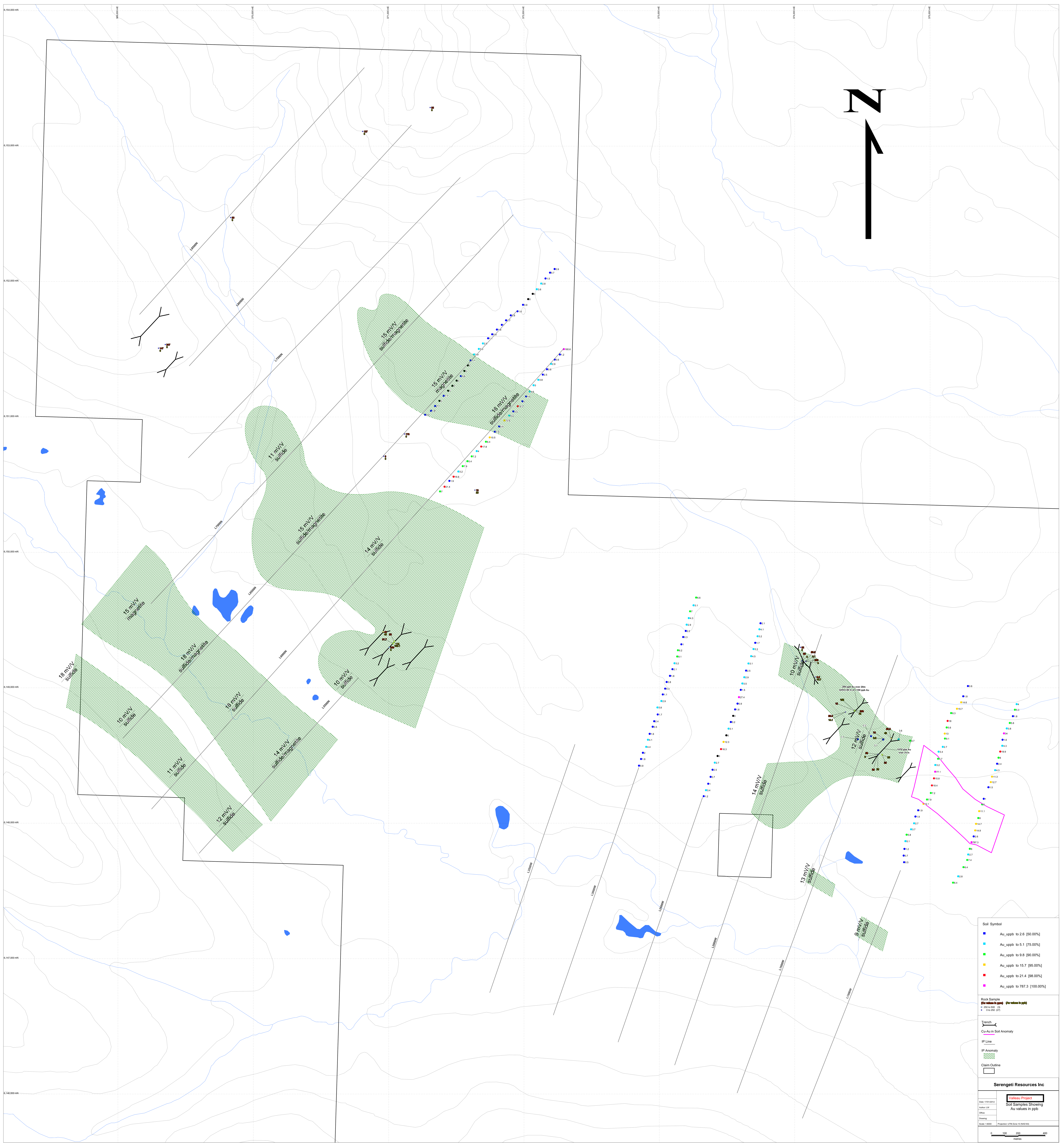
Claim Outline
 Claim Outline

Serengeti Resources Inc

Scale: 1:5000
 Date: 1/20/2023
 Project: 27th Data 19 2023 (3)

0 100 200 300 400
 meters

Soil Samples Showing
 Cu values in ppm



Soil Symbol

■	Au_upper to 2.6 [50.00%]
■	Au_upper to 5.1 [75.00%]
■	Au_upper to 9.8 [90.00%]
■	Au_upper to 15.7 [95.00%]
■	Au_upper to 21.4 [98.00%]
■	Au_upper to 787.3 [100.00%]

Rock Sample

●	0 to 200 (ppb)
●	0 to 200 (ppb)

Trench

Cu-Au in Soil Anomaly

IP Line

IP Anomaly

Claim Outline

Serengeti Resources Inc

10/10/2022

Author: J.M.

Drawn:

Date: 10/09/2022

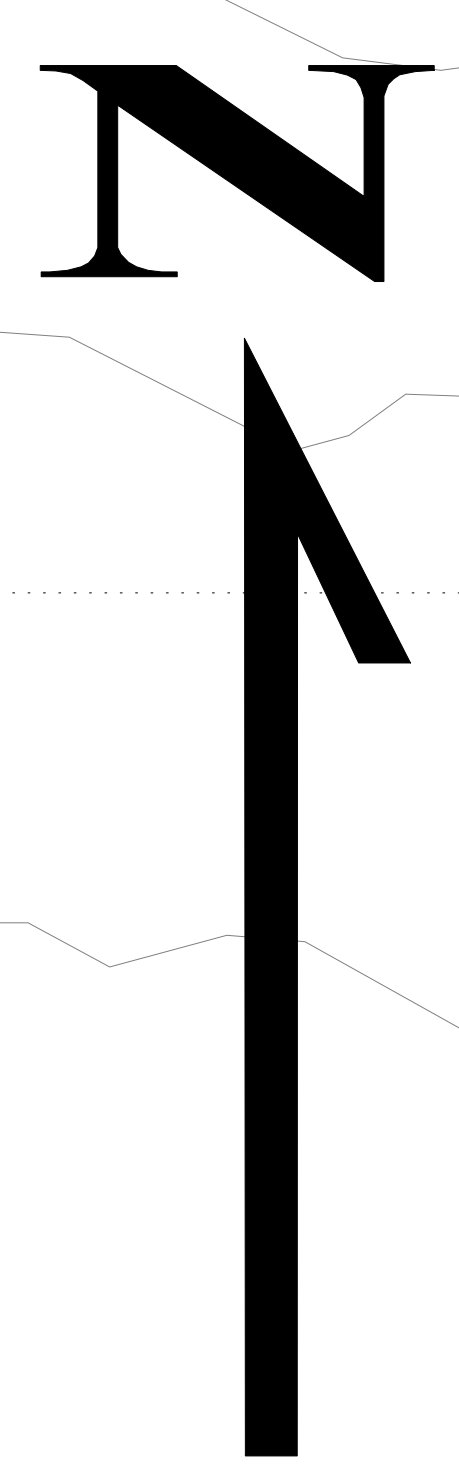
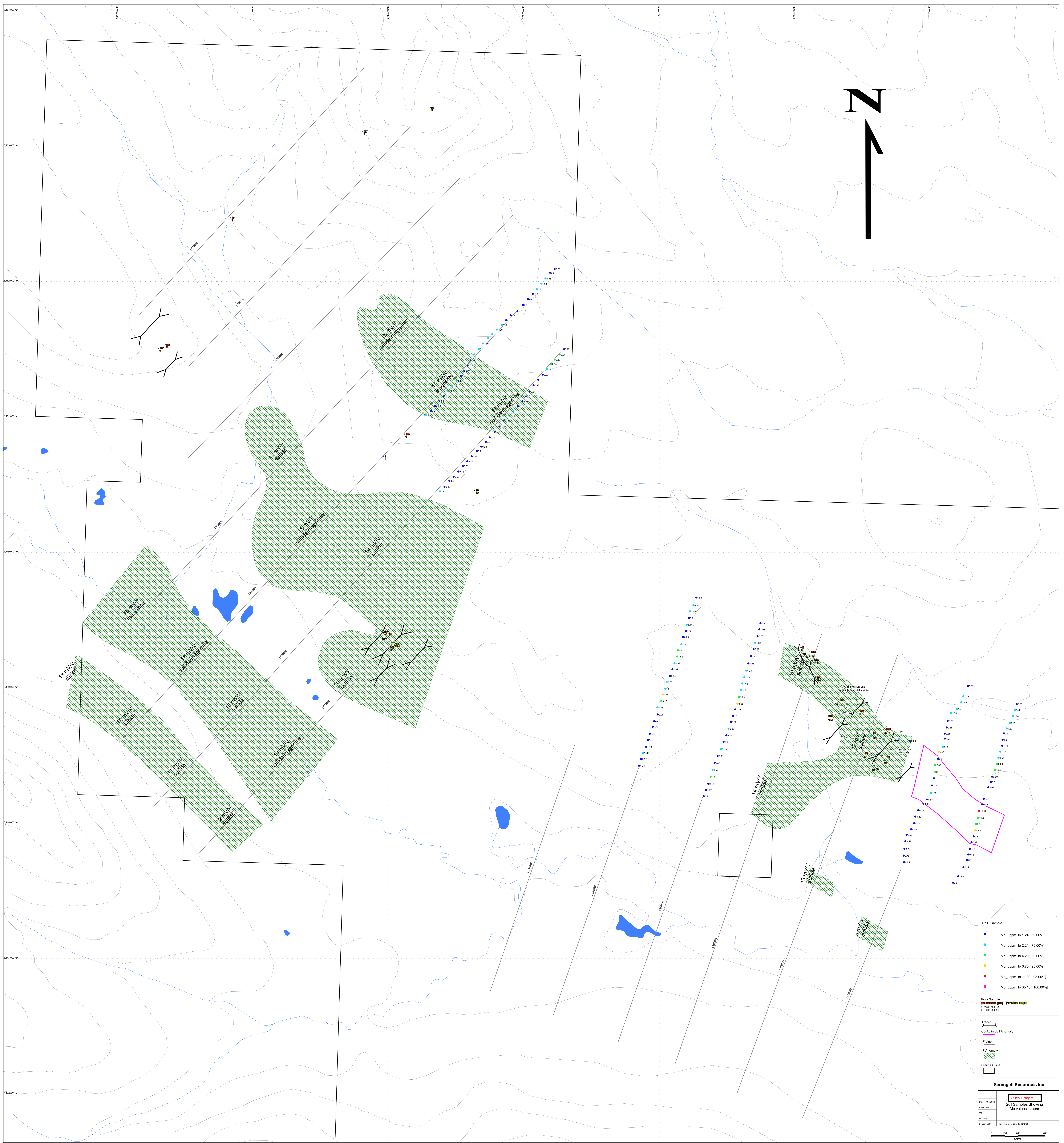
Project: (776 Data 10 2000) 001

Scale: 1:500

0 100 200 300 400 meters

Valley Project

Soil Samples Showing Au values in ppb



Soil Sample

- Mo_upper to 1.24 (50.00%)
- Mo_upper to 2.21 (75.00%)
- Mo_upper to 4.29 (90.00%)
- Mo_upper to 6.75 (95.00%)
- Mo_upper to 11.09 (98.00%)
- Mo_upper to 35.15 (100.00%)

Rock Sample
 (Mo values in ppm) (Mo values in ppb)

- 0 to 200 (20%)
- 0 to 200 (20%)

Trench
 Cu-Au in Soil Anomaly

IP Line
 IP Anomaly

Claim Outline

Serengeti Resources Inc

Drawn: 1/18/2012
 Author: L.M.
 Title:
 Project: 1/18/2012
 File: 1/18/2012

Scale: 1:5000

0 100 200 300 400
 meters

Appendix E – Analytical Certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

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

Submitted By: Hugh Samson
Receiving Lab: Canada-Smithers
Received: August 25, 2011
Report Date: September 10, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

SMI11000342.1

CLIENT JOB INFORMATION

Project: Aug 12, 2011 Shipment
Shipment ID: Aug-11
P.O. Number
Number of Samples: 42

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	42	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX3	42	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN

SAMPLE DISPOSAL

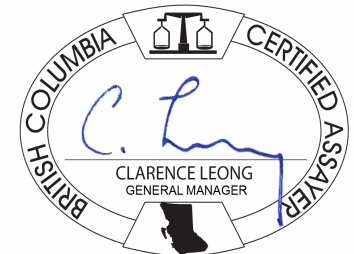
STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

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
Canada

CC: Dave Moore
Dustin Perry



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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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 1700 - 750 W. Pender Street
 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 10, 2011

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

SMI11000342.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
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	
537955	Rock	0.55	1.1	85.5	3.3	36	0.1	6.9	14.8	1017	3.68	1.3	3.1	2.2	34	0.2	0.6	<0.1	50	0.55	0.194
537956	Rock	0.88	0.9	9.8	2.2	37	<0.1	5.4	10.3	641	2.67	0.6	10.7	1.3	37	<0.1	0.5	<0.1	45	0.40	0.134
537957	Rock	0.59	2.3	85.3	2.5	30	0.2	4.0	10.3	608	2.80	2.4	14.1	2.8	34	0.1	0.3	<0.1	31	0.87	0.102
537958	Rock	0.99	2.8	70.0	3.0	28	0.1	3.0	9.5	988	2.93	3.3	9.2	4.0	29	0.2	1.3	<0.1	31	0.72	0.138
537959	Rock	0.98	2.7	89.3	2.3	15	0.2	2.4	4.0	633	2.76	2.4	42.0	1.7	32	0.2	0.3	<0.1	27	0.77	0.141
540958	Rock	0.77	1.5	51.7	2.2	14	<0.1	3.2	6.1	352	2.30	<0.5	130.1	2.4	10	<0.1	<0.1	0.1	33	0.14	0.075
541942	Rock	0.35	<0.1	108.5	0.2	37	<0.1	17.0	21.9	422	5.17	<0.5	21.2	<0.1	74	<0.1	0.2	<0.1	126	1.29	0.218
541722	Rock	0.46	17.2	118.0	1.1	10	0.2	6.8	11.2	109	4.03	<0.5	12.1	0.7	58	<0.1	<0.1	<0.1	22	0.54	0.101
541723	Rock	1.36	2.6	99.4	0.5	27	<0.1	33.9	17.2	288	2.47	<0.5	2.5	0.2	97	<0.1	<0.1	<0.1	73	1.30	0.053
541897	Rock	0.60	4.5	503.6	1.8	21	0.2	16.3	8.3	176	2.70	0.8	5.3	0.5	212	<0.1	<0.1	0.2	31	1.27	0.069
541898	Rock	0.77	49.8	79.5	0.2	17	0.1	20.1	12.8	298	2.59	0.7	13.9	0.2	19	<0.1	0.1	<0.1	49	0.74	0.059
541899	Rock	1.01	0.2	20.1	0.5	30	<0.1	11.7	7.5	303	0.85	<0.5	1.4	0.1	38	<0.1	<0.1	<0.1	9	0.41	0.038
541900	Rock	0.88	5.7	89.2	1.6	34	0.1	7.3	14.4	200	3.64	<0.5	<0.5	0.6	82	<0.1	<0.1	<0.1	39	0.89	0.051
541907	Rock	0.61	0.4	1291	2.6	48	0.6	1.5	9.3	799	2.28	0.9	8.2	2.7	285	0.1	0.4	<0.1	127	3.35	0.093
1115001	Rock	0.96	1.1	176.5	1.1	16	0.1	17.0	16.9	143	2.91	<0.5	0.7	0.3	84	<0.1	<0.1	<0.1	36	0.85	0.052
1115002	Rock	0.84	1.7	141.6	0.9	16	<0.1	9.4	9.9	178	2.46	<0.5	1.3	0.3	93	<0.1	<0.1	<0.1	46	0.94	0.049
1115129	Rock	0.78	0.6	56.8	1.0	7	<0.1	4.3	6.2	127	1.95	<0.5	<0.5	1.9	32	<0.1	<0.1	<0.1	24	0.54	0.078
1115130	Rock	0.76	0.1	40.7	0.9	17	<0.1	1.3	3.2	194	1.26	<0.5	<0.5	0.8	73	<0.1	<0.1	<0.1	13	0.71	0.052
1115003	Rock	0.45	3.5	2359	1.2	62	1.7	633.5	105.8	415	4.22	3.8	67.5	<0.1	15	0.4	0.1	<0.1	111	0.47	0.117
1115004	Rock	0.89	0.2	8.1	0.7	19	<0.1	5.2	13.0	455	3.74	0.6	<0.5	1.0	43	<0.1	<0.1	<0.1	113	0.90	0.116
1115005	Rock	0.72	2.1	51.4	3.3	34	0.2	4.3	9.0	360	2.72	1.0	14.0	3.0	43	0.2	<0.1	0.3	40	0.57	0.080
1115006	Rock	0.96	2.2	16.0	1.5	18	<0.1	4.4	8.0	286	1.99	1.0	<0.5	0.8	86	<0.1	<0.1	0.1	49	0.91	0.179
1115007	Rock	0.93	4.2	29.2	1.8	23	<0.1	3.0	10.4	318	2.72	<0.5	<0.5	0.7	31	<0.1	<0.1	0.2	63	0.85	0.156
1115008	Rock	0.93	5.1	22.2	2.2	15	<0.1	1.6	3.0	195	2.51	<0.5	1.1	2.8	29	<0.1	<0.1	0.7	49	0.30	0.081
1115009	Rock	0.85	8.4	50.4	0.8	18	0.1	24.8	13.2	244	3.59	<0.5	0.8	0.2	31	<0.1	<0.1	0.7	112	0.76	0.023
1115010	Rock	0.84	46.7	27.2	1.0	21	<0.1	21.1	10.0	304	2.00	<0.5	<0.5	0.3	42	<0.1	<0.1	0.1	53	0.90	0.074
1115011	Rock	0.80	165.8	50.4	2385	31	0.9	2.5	5.9	273	3.67	<0.5	10.1	0.2	25	<0.1	0.2	1.6	81	0.34	0.070
1115012	Rock	1.11	2.7	79.1	3.0	15	0.1	26.7	13.2	213	5.05	<0.5	<0.5	0.2	8	<0.1	<0.1	0.3	138	0.74	0.007
1115013	Rock	0.77	4.7	29.7	9.9	22	<0.1	21.0	8.1	277	2.48	<0.5	<0.5	0.3	34	<0.1	<0.1	0.3	66	0.76	0.099
541913	Rock	0.59	15.8	41.4	1.5	30	<0.1	1.3	3.7	247	2.16	0.8	2.5	0.9	56	<0.1	<0.1	0.2	26	0.38	0.089

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 1700 - 750 W. Pender Street
 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
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Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

SMI11000342.1

Method	Analyte	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		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	0.01	0.1	0.01	0.05	1	0.5	0.2	
537955	Rock	11	10	0.40	88	0.021	<1	0.68	0.047	0.19	0.1	<0.01	5.4	<0.1	<0.05	2	<0.5	<0.2
537956	Rock	8	8	0.65	292	0.012	<1	1.00	0.033	0.27	0.1	<0.01	3.0	<0.1	0.12	3	<0.5	<0.2
537957	Rock	6	5	0.36	58	0.004	<1	0.55	0.035	0.23	0.2	<0.01	2.0	<0.1	0.05	2	<0.5	<0.2
537958	Rock	12	4	0.08	57	0.006	<1	0.26	0.055	0.14	0.3	<0.01	4.3	<0.1	<0.05	1	<0.5	<0.2
537959	Rock	8	3	0.18	50	0.006	<1	0.36	0.046	0.18	0.3	<0.01	3.0	<0.1	0.11	1	<0.5	<0.2
540958	Rock	7	3	0.40	39	0.004	1	0.69	0.055	0.13	0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
541942	Rock	2	46	1.32	110	0.110	<1	1.18	0.038	0.48	0.3	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
541722	Rock	3	8	0.40	32	0.058	<1	0.81	0.100	0.10	1.4	<0.01	0.7	<0.1	1.54	3	1.3	<0.2
541723	Rock	<1	75	1.01	124	0.134	<1	2.45	0.260	0.47	0.9	<0.01	2.5	0.2	0.56	5	<0.5	<0.2
541897	Rock	4	16	0.39	34	0.093	<1	2.29	0.279	0.08	0.2	<0.01	1.6	<0.1	0.76	5	4.5	0.3
541898	Rock	<1	30	1.00	22	0.183	<1	1.17	0.029	0.10	0.6	<0.01	2.1	<0.1	0.19	3	<0.5	<0.2
541899	Rock	<1	14	0.67	75	0.039	<1	0.82	0.046	0.08	0.1	<0.01	0.5	<0.1	0.16	2	<0.5	<0.2
541900	Rock	2	9	0.55	20	0.117	<1	1.55	0.170	0.05	1.4	<0.01	2.3	<0.1	1.19	4	2.2	<0.2
541907	Rock	12	3	0.49	223	0.108	3	0.96	0.025	0.28	0.3	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1115001	Rock	1	10	0.38	56	0.099	<1	1.36	0.168	0.12	0.1	<0.01	1.7	<0.1	0.99	3	4.6	<0.2
1115002	Rock	1	9	0.48	48	0.106	<1	1.63	0.143	0.12	0.1	<0.01	2.0	<0.1	0.60	4	3.8	<0.2
1115129	Rock	6	7	0.25	8	0.099	<1	0.58	0.072	0.05	0.7	<0.01	1.0	<0.1	0.47	2	<0.5	<0.2
1115130	Rock	4	3	0.34	61	0.062	<1	0.60	0.059	0.13	0.1	<0.01	0.3	<0.1	0.29	2	<0.5	<0.2
1115003	Rock	<1	276	1.98	42	0.131	<1	1.92	0.046	0.10	0.3	0.03	3.1	<0.1	2.02	7	5.6	0.4
1115004	Rock	2	4	1.32	120	0.118	<1	1.54	0.051	0.41	0.3	<0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
1115005	Rock	5	4	0.62	85	0.082	<1	0.81	0.058	0.29	5.1	<0.01	1.5	<0.1	1.11	4	<0.5	0.2
1115006	Rock	2	2	0.77	35	0.084	<1	0.98	0.062	0.11	4.6	<0.01	1.4	<0.1	0.23	4	<0.5	<0.2
1115007	Rock	3	2	0.74	44	0.099	<1	0.95	0.065	0.19	4.7	<0.01	1.4	<0.1	0.45	4	<0.5	<0.2
1115008	Rock	5	3	0.44	97	0.114	<1	0.59	0.070	0.11	20.3	<0.01	1.6	<0.1	0.42	4	<0.5	<0.2
1115009	Rock	<1	88	0.88	21	0.231	<1	0.91	0.057	0.11	17.0	<0.01	4.2	<0.1	0.41	4	<0.5	0.3
1115010	Rock	2	70	0.89	58	0.108	<1	0.97	0.099	0.19	9.5	<0.01	3.7	<0.1	0.39	3	<0.5	<0.2
1115011	Rock	1	3	0.91	21	0.139	<1	0.93	0.046	0.10	60.7	<0.01	2.9	<0.1	0.99	5	0.8	0.9
1115012	Rock	<1	174	0.63	9	0.180	<1	0.39	0.041	0.05	18.3	<0.01	4.6	<0.1	0.61	3	<0.5	<0.2
1115013	Rock	2	61	0.88	46	0.131	<1	0.89	0.073	0.19	23.7	<0.01	3.4	<0.1	0.39	4	<0.5	<0.2
541913	Rock	5	<1	0.77	29	0.118	<1	0.90	0.070	0.07	0.6	<0.01	0.6	<0.1	0.28	4	<0.5	<0.2

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

Project: Aug 12, 2011 Shipment
 Report Date: September 10, 2011

Page: 3 of 3 Part 1

CERTIFICATE OF ANALYSIS

SMI11000342.1

Method	Analyte	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	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
541914	Rock	0.75	34.8	58.7	1.3	24	<0.1	32.9	16.8	250	2.31	<0.5	0.6	0.2	49	<0.1	<0.1	0.2	58	0.77	0.057
541915	Rock	0.95	7.8	83.0	1.3	32	0.1	1.7	5.6	230	2.49	<0.5	1.3	0.5	98	<0.1	<0.1	<0.1	36	0.81	0.127
552001	Rock	0.79	5.9	456.4	2.3	4	1.3	1.6	6.1	105	22.38	9.1	388.8	0.4	58	<0.1	0.6	1.1	92	0.03	0.077
552002	Rock	0.55	0.2	5243	0.9	6	<0.1	10.1	79.4	404	0.50	4.5	6.4	0.4	49	0.1	0.2	<0.1	27	1.11	0.148
1115033	Rock	0.31	2.1	151.8	0.9	21	0.4	28.2	33.0	213	3.98	<0.5	47.9	0.3	17	<0.1	0.2	0.1	37	0.43	0.036
1115034	Rock	0.51	0.5	964.6	0.6	16	0.2	50.9	57.0	237	3.70	0.9	26.5	<0.1	24	0.1	0.2	<0.1	42	0.61	0.084
1115035	Rock	0.44	0.2	322.9	0.6	28	0.2	36.7	36.3	300	2.42	0.8	11.9	<0.1	18	0.1	<0.1	<0.1	37	0.74	0.068
1115036	Rock	0.67	0.6	1228	1.6	39	4.7	32.4	68.7	524	11.85	5.9	518.0	0.3	28	0.1	0.1	0.2	85	1.03	0.014
1115037	Rock	0.47	29.0	639.8	2.3	3	1.2	2.3	3.5	32	24.19	6.4	953.6	0.1	51	<0.1	0.2	0.6	140	0.03	0.054
1115040	Rock	0.69	2.4	275.1	2.8	44	1.2	23.5	25.4	358	21.62	34.2	94.1	0.4	14	<0.1	0.4	0.2	46	0.28	0.024
1115041	Rock	1.40	1.5	523.2	2.8	37	1.1	7.3	85.4	567	14.85	74.2	120.5	0.3	13	<0.1	1.2	0.2	59	0.30	0.050
1115133	Rock	1.24	0.9	3804	7.3	15	5.1	1.4	5.2	204	1.19	13.3	29.9	0.8	39	0.1	1.9	6.8	18	0.95	0.084



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Project: Aug 12, 2011 Shipment
 Report Date: September 10, 2011

Page: 3 of 3 Part 2

CERTIFICATE OF ANALYSIS

SMI11000342.1

Method	Analyte	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
		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	0.05	1	0.5	0.2	
541914	Rock	<1	40	0.99	63	0.189	<1	1.17	0.059	0.30	0.4	<0.01	2.7	<0.1	0.60	4	<0.5	0.3
541915	Rock	6	2	0.59	35	0.111	<1	1.03	0.082	0.10	0.3	<0.01	0.7	<0.1	0.71	4	0.6	<0.2
552001	Rock	1	23	0.03	57	0.084	<1	0.13	0.219	0.26	0.4	0.04	1.1	<0.1	1.16	10	9.3	1.9
552002	Rock	4	10	0.15	11	0.106	<1	0.67	0.052	0.03	0.2	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1115033	Rock	<1	18	1.01	6	0.153	2	1.06	0.081	0.02	0.2	<0.01	1.7	<0.1	3.03	3	4.6	0.2
1115034	Rock	<1	30	0.78	33	0.094	2	0.97	0.051	0.11	0.2	0.04	2.7	<0.1	3.01	2	3.3	0.2
1115035	Rock	<1	65	1.08	30	0.128	<1	1.05	0.055	0.06	0.2	<0.01	2.4	<0.1	1.04	2	3.7	<0.2
1115036	Rock	2	152	2.56	127	0.026	1	2.59	0.112	0.32	<0.1	0.02	7.9	<0.1	0.62	7	7.6	1.0
1115037	Rock	5	22	0.01	35	0.085	1	0.31	0.184	1.36	0.2	0.10	3.2	0.2	3.02	7	10.7	4.3
1115040	Rock	1	21	0.62	89	0.087	<1	1.22	0.008	0.04	1.4	0.01	2.3	<0.1	0.74	5	3.3	0.9
1115041	Rock	1	26	0.77	41	0.148	<1	1.53	0.020	0.10	<0.1	0.04	2.1	<0.1	2.03	5	6.0	1.3
1115133	Rock	8	1	0.07	617	0.001	4	0.40	0.032	0.29	<0.1	1.18	1.5	0.1	0.19	2	0.6	0.2



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Project: Aug 12, 2011 Shipment
 Report Date: September 10, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

SMI11000342.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
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																					
540958	Rock	0.77	1.5	51.7	2.2	14	<0.1	3.2	6.1	352	2.30	<0.5	130.1	2.4	10	<0.1	<0.1	0.1	33	0.14	0.075
REP 540958	QC		1.4	50.7	2.2	15	<0.1	3.1	6.1	334	2.24	<0.5	170.9	2.3	10	<0.1	<0.1	<0.1	32	0.12	0.077
1115012	Rock	1.11	2.7	79.1	3.0	15	0.1	26.7	13.2	213	5.05	<0.5	<0.5	0.2	8	<0.1	<0.1	0.3	138	0.74	0.007
REP 1115012	QC		3.3	75.9	5.5	15	0.1	25.2	13.0	211	5.05	<0.5	<0.5	0.2	8	<0.1	<0.1	0.3	139	0.75	0.008
1115033	Rock	0.31	2.1	151.8	0.9	21	0.4	28.2	33.0	213	3.98	<0.5	47.9	0.3	17	<0.1	0.2	0.1	37	0.43	0.036
REP 1115033	QC		2.1	155.2	0.9	22	0.4	29.3	32.7	214	4.00	0.5	47.1	0.3	17	<0.1	0.1	<0.1	36	0.44	0.035
Reference Materials																					
STD DS8	Standard		11.8	112.0	133.9	317	1.8	38.4	7.6	635	2.51	25.0	115.6	7.2	66	2.4	5.6	7.7	40	0.66	0.077
STD DS8	Standard		12.6	111.0	130.2	326	1.9	38.0	7.5	628	2.54	25.8	110.9	6.5	66	2.4	5.5	6.9	42	0.73	0.084
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
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
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	Prep Blank		0.1	2.0	3.2	41	<0.1	3.0	3.8	528	1.88	<0.5	2.7	5.1	57	<0.1	<0.1	0.2	33	0.40	0.072
G1	Prep Blank		0.1	1.5	3.7	45	<0.1	3.0	3.8	559	1.90	<0.5	0.6	5.5	51	<0.1	<0.1	0.1	34	0.42	0.075



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Project: Aug 12, 2011 Shipment
 Report Date: September 10, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

SMI11000342.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
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																		
540958	Rock	7	3	0.40	39	0.004	1	0.69	0.055	0.13	0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
REP 540958	QC	7	3	0.39	38	0.004	1	0.66	0.052	0.13	0.2	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2
1115012	Rock	<1	174	0.63	9	0.180	<1	0.39	0.041	0.05	18.3	<0.01	4.6	<0.1	0.61	3	<0.5	<0.2
REP 1115012	QC	<1	169	0.64	9	0.182	<1	0.38	0.041	0.05	18.6	<0.01	4.5	<0.1	0.62	3	<0.5	<0.2
1115033	Rock	<1	18	1.01	6	0.153	2	1.06	0.081	0.02	0.2	<0.01	1.7	<0.1	3.03	3	4.6	0.2
REP 1115033	QC	<1	18	1.03	6	0.157	2	1.04	0.070	0.02	0.2	0.01	1.8	<0.1	3.04	3	5.5	<0.2
Reference Materials																		
STD DS8	Standard	12	113	0.62	246	0.115	3	0.85	0.077	0.40	2.8	0.20	1.9	5.6	0.16	5	5.9	5.1
STD DS8	Standard	14	115	0.64	278	0.114	2	0.94	0.083	0.43	3.0	0.19	2.1	5.7	0.18	5	6.3	4.9
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
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
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	Prep Blank	8	7	0.54	172	0.105	<1	0.86	0.067	0.45	<0.1	<0.01	1.5	0.3	<0.05	4	<0.5	<0.2
G1	Prep Blank	9	8	0.54	182	0.108	<1	0.84	0.067	0.45	<0.1	<0.01	1.6	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Hugh Samson
Receiving Lab: Canada-Smithers
Received: August 26, 2011
Report Date: September 30, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

SMI11000351.1

CLIENT JOB INFORMATION

Project: Aug 12, 2011 Shipment
Shipment ID: Aug-11
P.O. Number
Number of Samples: 286

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

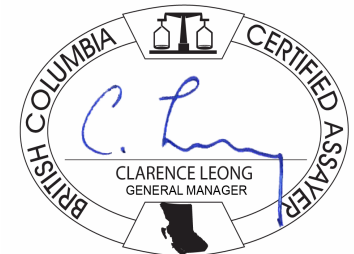
Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include Air Dry, SS80, RJSV, 1F05, and 1F04.

ADDITIONAL COMMENTS

Version 2 includes 1F04 (0.5g) analysis for 'IS' samples only

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

CC: Dustin Perry
Dave Moore



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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	%	%
				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
540901	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.
540902	Soil			1.63	8.38	6.98	48.9	449	2.2	2.0	775	0.54	2.4	<0.1	2.1	<0.1	19.4	0.18	0.10	0.13	15	0.26	0.123
540903	Soil			1.40	6.27	4.87	48.8	730	1.1	0.7	454	0.15	3.4	<0.1	3.2	0.8	19.5	0.24	0.09	0.08	3	0.31	0.133
540904	Soil			0.93	4.95	4.12	62.3	110	1.3	0.6	2277	0.15	3.4	<0.1	1.7	<0.1	8.9	0.25	0.08	0.12	<2	0.23	0.147
540905	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.
540906	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.
540907	Soil			2.81	78.16	4.48	36.6	198	9.1	9.4	407	2.35	2.9	4.4	7.7	0.6	59.2	0.10	0.15	0.13	61	0.93	0.148
540908	Soil			35.15	90.14	5.00	46.6	637	6.9	47.1	4632	6.15	3.2	13.2	4.3	0.2	79.1	0.55	0.18	0.12	50	1.29	0.220
540909	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.
540910	Soil			11.97	101.0	4.23	42.0	250	10.5	12.7	537	2.63	4.8	8.7	7.3	0.5	69.3	0.29	0.18	0.09	60	0.99	0.126
540911	Soil			1.78	35.03	6.40	63.3	652	8.7	9.7	1619	1.26	4.0	0.3	8.7	<0.1	32.4	0.66	0.28	0.11	31	0.39	0.121
540912	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.
540913	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.
540914	Soil			1.02	70.40	3.61	51.4	203	2.2	0.6	556	0.08	<0.1	0.1	11.7	<0.1	83.6	0.33	0.10	0.38	2	1.93	0.096
540915	Soil			1.30	17.18	8.34	42.4	638	2.2	2.7	1024	0.28	<0.1	0.1	1.3	0.1	43.0	0.25	0.14	0.55	8	0.81	0.130
540916	Soil			0.53	7.79	5.11	33.7	216	1.5	0.9	356	0.18	<0.1	<0.1	6.7	<0.1	11.6	0.23	0.11	0.21	4	0.29	0.068
540917	Soil			2.91	19.95	4.53	86.8	119	4.4	2.4	949	0.43	<0.1	0.3	7.1	0.1	140.5	1.14	0.15	0.13	9	1.78	0.124
540918	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.
540919	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.
540920	Soil			0.71	10.08	10.15	39.6	1484	3.7	2.0	276	0.49	<0.1	0.1	2.2	<0.1	19.2	0.33	0.13	0.24	13	0.17	0.094
540949	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.
1115051	Soil			0.42	8.01	8.51	19.6	254	2.4	0.8	83	0.25	<0.1	0.1	8.3	<0.1	36.9	0.34	0.08	0.13	8	0.17	0.052
1115052	Soil			0.41	21.63	9.04	16.9	1095	4.3	4.9	89	0.41	0.6	0.4	4.9	<0.1	46.8	0.21	0.08	0.13	8	0.29	0.084
1115053	Soil			1.00	8.27	6.59	15.7	392	3.0	2.6	103	0.78	0.6	0.1	9.5	<0.1	27.5	0.13	0.12	0.08	31	0.19	0.037
1115054	Soil			1.06	8.39	6.42	12.8	993	2.2	4.0	783	1.15	0.7	0.1	3.6	<0.1	32.3	0.19	0.12	0.12	47	0.28	0.032
1115055	Soil			1.07	7.96	6.83	14.5	438	1.5	1.6	307	0.46	0.6	0.1	3.2	<0.1	26.2	0.14	0.09	0.08	19	0.24	0.041
1115056	Soil			1.00	11.51	7.32	28.3	978	2.6	1.9	228	0.68	1.2	0.1	1.3	<0.1	33.8	0.36	0.10	0.15	22	0.32	0.062
1115057	Soil			0.83	12.92	7.64	19.3	415	3.9	3.0	95	0.92	1.0	0.1	3.7	<0.1	25.8	0.21	0.12	0.10	32	0.21	0.049
1115058	Soil			0.51	10.74	6.03	20.4	475	2.5	1.9	95	0.64	0.6	0.1	13.2	<0.1	26.6	0.17	0.08	0.14	22	0.17	0.051
1115059	Soil			4.41	39.80	6.47	17.3	395	3.1	5.5	1355	0.95	0.3	0.6	3.8	<0.1	55.5	1.08	0.17	0.19	36	0.99	0.050

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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Page: 2 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	0.1	
540901	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.	
540902	Soil	1.0	5.7	0.09	82.2	0.024	2	0.23	0.007	0.11	<0.1	0.4	0.07	0.09	143	0.2	<0.02	1.2	0.63	<0.1	<0.02
540903	Soil	0.6	3.5	0.05	74.8	0.005	1	0.12	0.008	0.13	<0.1	0.4	0.07	0.11	159	0.1	<0.02	0.4	0.80	<0.1	0.03
540904	Soil	<0.5	3.5	0.04	55.1	0.004	2	0.12	0.009	0.13	<0.1	0.3	0.07	0.11	178	0.2	<0.02	0.3	0.30	<0.1	0.03
540905	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.
540906	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.
540907	Soil	8.6	24.5	0.62	89.7	0.033	1	1.20	0.011	0.06	0.4	3.1	0.09	0.11	121	0.6	<0.02	3.7	1.02	<0.1	<0.02
540908	Soil	13.3	10.7	0.26	172.4	0.007	2	0.79	0.018	0.09	1.1	0.9	0.27	0.21	156	0.9	<0.02	1.9	1.62	<0.1	<0.02
540909	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.
540910	Soil	9.9	21.0	0.60	114.6	0.041	3	1.33	0.014	0.09	0.7	2.5	0.11	0.17	100	0.6	<0.02	4.1	1.43	<0.1	<0.02
540911	Soil	4.2	12.4	0.30	200.0	0.010	5	0.64	0.010	0.09	0.6	1.0	0.05	0.08	142	<0.1	0.06	2.3	0.62	<0.1	<0.02
540912	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.
540913	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.
540914	Soil	1.1	2.3	0.12	159.9	0.001	6	0.06	0.007	0.08	<0.1	0.5	0.16	0.16	257	0.3	0.02	<0.1	0.17	<0.1	<0.02
540915	Soil	1.3	3.9	0.08	223.1	0.008	3	0.13	0.007	0.12	0.1	0.9	0.04	0.12	210	0.2	0.03	0.4	0.67	<0.1	<0.02
540916	Soil	<0.5	2.2	0.06	35.8	0.005	3	0.19	0.006	0.05	<0.1	0.3	0.12	0.12	247	0.2	<0.02	0.3	0.16	<0.1	<0.02
540917	Soil	1.4	8.1	0.18	175.6	0.009	4	0.23	0.007	0.10	<0.1	0.6	0.10	0.20	171	0.6	<0.02	0.8	0.44	<0.1	<0.02
540918	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.
540919	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.
540920	Soil	2.5	6.4	0.06	190.0	0.007	2	0.35	0.009	0.07	0.1	0.3	0.09	0.06	102	<0.1	<0.02	1.9	0.43	<0.1	<0.02
540949	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.
1115051	Soil	4.1	3.4	0.04	215.5	0.009	2	0.25	0.010	0.05	<0.1	0.4	0.07	0.03	43	<0.1	<0.02	1.4	0.93	<0.1	<0.02
1115052	Soil	4.3	4.9	0.09	336.9	0.003	1	0.29	0.010	0.05	<0.1	0.3	0.04	0.05	96	<0.1	0.02	1.1	0.55	<0.1	<0.02
1115053	Soil	2.8	8.2	0.11	126.8	0.042	<1	0.29	0.008	0.04	0.6	0.7	0.03	0.03	39	0.1	0.02	2.3	0.35	<0.1	<0.02
1115054	Soil	2.8	9.7	0.12	168.6	0.077	1	0.38	0.007	0.05	0.2	0.7	0.08	0.02	41	<0.1	0.03	3.3	0.72	<0.1	<0.02
1115055	Soil	3.0	6.8	0.05	116.1	0.027	1	0.25	0.008	0.05	<0.1	0.3	0.06	0.03	40	<0.1	0.03	1.8	0.54	<0.1	<0.02
1115056	Soil	2.3	7.0	0.08	169.3	0.020	2	0.27	0.011	0.09	0.3	0.4	0.05	0.05	86	0.1	0.06	1.5	0.67	<0.1	<0.02
1115057	Soil	2.3	12.3	0.18	93.0	0.025	<1	0.41	0.008	0.05	0.1	0.3	0.03	0.03	47	<0.1	<0.02	2.6	0.62	<0.1	<0.02
1115058	Soil	2.5	6.3	0.06	204.1	0.006	<1	0.40	0.007	0.04	<0.1	0.1	0.03	0.04	33	<0.1	<0.02	2.4	0.64	<0.1	<0.02
1115059	Soil	3.6	6.3	0.11	160.0	0.035	<1	0.40	0.008	0.05	0.2	0.9	0.08	0.07	49	0.2	0.02	2.6	0.78	<0.1	<0.02

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



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 2 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	MDL	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
540901	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.	1.43	11.82	5.34	65.4	231	2.5	0.8	
540902	Soil	0.25	13.4	0.2	<0.05	0.2	0.60	1.8	<0.02	<1	<0.1	0.5	<10	<2	1.43	8.18	7.45	47.1	458	2.0	1.8
540903	Soil	0.06	16.9	0.2	<0.05	0.4	0.18	1.0	<0.02	<1	<0.1	0.3	<10	<2	1.20	5.87	5.09	47.3	753	1.1	0.6
540904	Soil	0.05	13.1	0.1	<0.05	0.1	0.15	0.8	<0.02	<1	<0.1	0.2	<10	<2	0.64	4.63	4.30	62.4	99	1.2	0.5
540905	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.	3.71	52.94	11.62	20.8	404	2.5	1.4	
540906	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.	1.12	6.67	7.97	67.4	356	1.9	0.9	
540907	Soil	0.46	7.1	0.2	<0.05	0.1	7.74	11.6	<0.02	<1	0.2	8.3	<10	<2	2.64	81.50	4.76	36.0	210	8.7	8.8
540908	Soil	0.13	7.1	<0.1	<0.05	<0.1	12.53	13.1	<0.02	18	0.4	3.2	<10	<2	30.62	88.56	5.41	45.0	622	6.0	43.9
540909	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.	10.78	65.66	3.19	32.7	305	5.0	12.8	
540910	Soil	0.60	13.8	0.2	<0.05	<0.1	7.47	12.0	<0.02	<1	0.4	9.0	<10	<2	10.66	98.17	4.36	38.7	254	9.3	12.1
540911	Soil	0.20	5.4	0.1	<0.05	<0.1	2.63	7.9	<0.02	<1	0.1	2.7	<10	<2	1.52	33.59	7.07	62.6	703	8.3	9.1
540912	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.	2.03	20.96	5.63	45.8	229	4.5	2.7	
540913	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.	0.59	5.82	2.73	59.9	594	2.4	0.7	
540914	Soil	0.02	3.9	<0.1	<0.05	0.2	1.89	0.6	<0.02	<1	<0.1	0.2	<10	<2	1.07	76.96	3.44	56.2	212	2.5	0.5
540915	Soil	0.10	7.8	0.2	<0.05	0.1	1.17	2.1	<0.02	<1	<0.1	0.4	<10	<2	1.28	18.16	9.41	45.0	659	2.0	2.3
540916	Soil	0.04	3.3	0.1	<0.05	<0.1	0.23	0.7	<0.02	<1	<0.1	0.4	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540917	Soil	0.14	7.0	<0.1	<0.05	0.4	1.33	2.1	<0.02	<1	<0.1	1.6	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540918	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.	1.11	7.04	5.16	54.7	178	2.0	1.2	
540919	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.	1.50	15.56	9.47	79.4	340	6.4	8.5	
540920	Soil	0.08	8.3	0.2	<0.05	<0.1	0.76	4.6	<0.02	<1	0.2	0.4	<10	<2	0.60	9.74	10.39	40.4	1495	3.3	1.9
540949	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.	0.71	7.46	4.84	29.2	264	1.4	0.8	
1115051	Soil	0.09	7.6	0.2	<0.05	<0.1	0.68	7.5	<0.02	<1	<0.1	0.3	<10	<2	0.30	6.88	8.06	17.3	204	1.9	0.7
1115052	Soil	0.10	4.9	0.2	<0.05	<0.1	2.69	8.2	<0.02	<1	0.4	0.4	<10	<2	0.33	21.02	9.47	17.1	1013	4.0	4.6
1115053	Soil	0.31	4.3	0.2	<0.05	<0.1	1.16	5.3	<0.02	<1	<0.1	0.7	<10	<2	0.91	8.52	7.38	17.3	387	3.0	2.7
1115054	Soil	0.29	5.3	0.4	<0.05	<0.1	1.71	5.6	<0.02	<1	<0.1	0.6	<10	<2	0.78	8.08	7.06	12.8	961	2.2	3.6
1115055	Soil	0.21	4.6	0.3	<0.05	<0.1	1.33	5.7	<0.02	<1	<0.1	0.3	<10	<2	0.84	7.72	7.37	14.4	397	1.6	1.6
1115056	Soil	0.18	7.7	0.2	<0.05	<0.1	1.00	4.4	<0.02	<1	<0.1	0.5	<10	<2	0.83	11.37	7.88	29.2	900	2.4	1.7
1115057	Soil	0.19	5.0	0.3	<0.05	<0.1	1.10	4.5	<0.02	<1	<0.1	1.1	<10	<2	0.68	13.80	8.41	19.7	401	4.0	3.0
1115058	Soil	0.16	5.4	0.3	<0.05	<0.1	0.99	4.7	<0.02	<1	<0.1	0.3	<10	<2	0.35	9.82	6.04	19.1	388	2.1	1.7
1115059	Soil	0.92	4.7	0.3	<0.05	<0.1	2.21	6.3	<0.02	<1	0.2	0.9	<10	<2	3.54	41.18	6.93	17.3	356	2.8	5.1

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



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 Report Date: September 30, 2011

Page: 2 of 11 Part 4

CERTIFICATE OF ANALYSIS

SMI11000351.1

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
540901	Soil	2320	0.17	0.6	<0.1	4.7	<0.1	21.2	0.16	0.14	0.23	<2	0.32	0.127	0.5	3.7	0.06	103.6	0.005	<20	0.09
540902	Soil	747	0.43	0.6	<0.1	3.7	<0.1	16.5	0.20	0.12	0.16	12	0.23	0.109	0.8	3.7	0.08	79.2	0.012	<20	0.19
540903	Soil	435	0.12	0.2	<0.1	2.6	<0.1	19.1	0.22	0.11	0.08	2	0.30	0.117	<0.5	1.7	0.05	69.9	0.003	<20	0.10
540904	Soil	2253	0.12	0.4	<0.1	2.7	<0.1	8.9	0.24	0.08	0.06	<2	0.21	0.131	<0.5	1.7	0.04	54.4	0.003	<20	0.10
540905	Soil	1499	0.21	0.4	0.5	3.9	0.1	170.0	1.02	0.34	0.12	4	2.00	0.121	9.6	3.0	0.15	112.7	0.004	<20	0.24
540906	Soil	502	0.15	0.2	<0.1	2.1	<0.1	21.8	0.25	0.10	0.07	3	0.25	0.101	0.7	1.7	0.04	188.5	0.003	<20	0.16
540907	Soil	401	2.32	1.0	4.7	8.3	0.5	59.0	0.12	0.13	0.12	60	0.87	0.135	8.9	23.7	0.63	94.4	0.026	<20	1.15
540908	Soil	4672	5.91	0.6	13.6	3.4	0.4	78.9	0.54	0.18	0.10	50	1.27	0.193	13.2	9.0	0.25	166.6	0.006	<20	0.73
540909	Soil	926	4.82	0.3	8.4	4.2	0.2	78.2	0.24	0.12	0.09	31	1.37	0.128	8.7	7.7	0.24	109.5	0.007	<20	0.43
540910	Soil	505	2.46	1.1	9.0	14.2	0.5	68.3	0.32	0.15	0.12	56	0.91	0.111	9.1	18.1	0.57	107.9	0.026	<20	1.22
540911	Soil	1597	1.16	1.3	0.3	6.3	<0.1	30.8	0.69	0.27	0.11	27	0.35	0.110	3.6	10.4	0.30	204.2	0.007	<20	0.56
540912	Soil	152	0.51	0.7	0.6	106.9	<0.1	48.8	0.55	0.14	0.12	10	0.43	0.121	2.7	5.9	0.11	163.0	0.003	<20	0.27
540913	Soil	1229	0.17	0.6	0.1	1.7	<0.1	14.5	0.11	0.09	0.04	<2	0.33	0.106	<0.5	3.8	0.05	59.2	0.003	<20	0.11
540914	Soil	587	0.09	<0.1	0.1	4.6	<0.1	95.7	0.40	0.12	0.04	2	1.96	0.096	1.2	1.2	0.12	167.8	0.001	<20	0.06
540915	Soil	1107	0.24	0.5	0.1	1.6	<0.1	50.0	0.32	0.13	0.07	6	0.88	0.138	1.5	2.5	0.08	243.0	0.005	<20	0.12
540916	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.
540917	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.
540918	Soil	716	0.24	0.3	<0.1	5.8	<0.1	21.0	0.26	0.10	0.27	5	0.37	0.116	0.6	3.8	0.07	66.2	0.004	<20	0.12
540919	Soil	1827	0.32	0.6	0.2	3.7	<0.1	26.8	1.13	0.11	0.12	5	0.33	0.126	1.8	4.9	0.08	207.0	0.002	<20	0.21
540920	Soil	273	0.46	0.4	<0.1	1.4	<0.1	18.1	0.35	0.09	0.11	11	0.16	0.088	1.9	6.1	0.06	184.0	0.003	<20	0.34
540949	Soil	415	0.15	0.4	<0.1	1.8	<0.1	28.8	0.16	0.10	0.05	3	0.68	0.132	<0.5	2.1	0.09	101.2	0.006	<20	0.08
1115051	Soil	76	0.21	0.4	<0.1	1.1	<0.1	35.2	0.32	0.05	0.07	6	0.15	0.040	3.1	2.5	0.03	203.6	0.002	<20	0.22
1115052	Soil	88	0.41	0.3	0.3	0.4	<0.1	47.1	0.20	0.06	0.08	7	0.28	0.075	4.0	3.9	0.08	324.3	0.001	<20	0.26
1115053	Soil	114	0.76	0.2	0.1	1.3	<0.1	29.1	0.12	0.10	0.08	29	0.19	0.041	2.9	7.7	0.11	137.9	0.037	<20	0.30
1115054	Soil	822	1.03	0.4	0.1	0.5	<0.1	29.0	0.18	0.09	0.09	42	0.24	0.033	2.8	8.2	0.12	165.9	0.061	<20	0.36
1115055	Soil	302	0.43	0.4	0.1	2.6	<0.1	24.8	0.15	0.07	0.08	17	0.21	0.044	2.9	6.0	0.05	116.7	0.017	<20	0.24
1115056	Soil	220	0.57	0.1	<0.1	0.5	<0.1	33.0	0.36	0.07	0.08	17	0.31	0.066	2.0	5.2	0.09	172.3	0.010	<20	0.25
1115057	Soil	99	0.87	0.5	<0.1	0.7	<0.1	23.9	0.22	0.10	0.09	28	0.19	0.051	2.1	11.1	0.18	98.6	0.013	<20	0.40
1115058	Soil	93	0.60	0.4	0.1	0.2	<0.1	23.0	0.17	0.07	0.09	20	0.14	0.046	2.0	5.2	0.06	190.5	0.003	<20	0.35
1115059	Soil	1398	0.97	0.6	0.7	1.3	0.2	56.8	1.08	0.13	0.67	35	0.94	0.050	3.5	5.9	0.11	160.0	0.029	<20	0.37

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 2 of 11 Part 5

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
540901	Soil			0.008	0.14	<0.1	0.5	0.07	0.11	157	0.2	<0.02	0.3	0.31	<0.1	<0.02	0.07	13.0	0.3	<0.05	<0.1	0.28	0.8
540902	Soil			0.006	0.11	<0.1	0.3	0.09	0.09	150	0.1	<0.02	1.0	0.47	<0.1	<0.02	0.17	11.6	0.2	<0.05	<0.1	0.38	1.2
540903	Soil			0.007	0.12	<0.1	0.4	0.09	0.11	145	0.2	<0.02	0.3	0.67	<0.1	<0.02	0.05	15.3	0.2	<0.05	<0.1	0.12	0.7
540904	Soil			0.008	0.13	<0.1	0.3	0.08	0.11	198	0.1	<0.02	0.3	0.26	<0.1	<0.02	0.04	12.8	0.2	<0.05	<0.1	0.12	0.5
540905	Soil			0.009	0.08	<0.1	0.9	0.07	0.16	247	0.3	<0.02	0.6	0.23	<0.1	<0.02	0.14	5.4	0.3	<0.05	0.5	12.86	3.0
540906	Soil			0.014	0.11	<0.1	0.3	0.05	0.11	169	0.2	<0.02	0.3	0.24	<0.1	<0.02	0.06	9.5	0.2	<0.05	<0.1	0.28	1.0
540907	Soil			0.009	0.06	0.4	2.7	0.09	0.12	125	0.7	<0.02	3.5	0.91	<0.1	<0.02	0.32	6.2	0.2	<0.05	0.2	7.33	10.8
540908	Soil			0.018	0.09	0.8	0.9	0.26	0.21	155	0.9	<0.02	1.8	1.26	<0.1	<0.02	0.11	6.1	0.1	<0.05	<0.1	12.33	12.1
540909	Soil			0.024	0.07	0.6	0.7	0.08	0.20	121	0.6	<0.02	1.2	0.78	<0.1	<0.02	0.17	5.2	0.1	<0.05	<0.1	7.70	6.9
540910	Soil			0.011	0.08	0.5	1.8	0.10	0.17	115	0.7	<0.02	3.5	1.00	<0.1	<0.02	0.45	10.4	0.2	<0.05	0.3	7.01	10.4
540911	Soil			0.009	0.08	0.2	0.6	0.05	0.08	131	0.1	0.04	2.0	0.40	<0.1	<0.02	0.16	4.0	0.2	<0.05	<0.1	2.40	6.7
540912	Soil			0.008	0.08	0.1	0.3	0.02	0.19	113	0.3	<0.02	0.9	0.17	<0.1	<0.02	0.16	3.0	0.2	<0.05	<0.1	2.17	4.5
540913	Soil			0.006	0.12	<0.1	0.3	0.06	0.12	161	0.1	<0.02	0.3	0.41	<0.1	<0.02	0.07	10.1	0.1	<0.05	0.1	0.34	0.7
540914	Soil			0.007	0.08	<0.1	0.4	0.08	0.15	281	0.2	0.03	0.1	0.17	<0.1	<0.02	0.02	4.1	<0.1	<0.05	0.2	2.16	0.5
540915	Soil			0.006	0.12	<0.1	0.5	0.06	0.12	244	0.1	<0.02	0.5	0.61	<0.1	<0.02	0.06	7.8	0.2	<0.05	<0.1	1.29	2.2
540916	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.
540917	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.
540918	Soil			0.008	0.13	<0.1	0.3	0.05	0.13	139	0.1	0.02	0.4	0.68	<0.1	<0.02	0.08	12.7	0.2	<0.05	<0.1	0.22	0.9
540919	Soil			0.007	0.16	<0.1	0.2	0.06	0.10	89	0.2	<0.02	0.8	0.24	<0.1	<0.02	0.09	6.1	0.2	<0.05	<0.1	0.78	2.9
540920	Soil			0.008	0.07	<0.1	0.2	0.05	0.06	125	0.1	<0.02	1.7	0.31	<0.1	<0.02	0.07	7.4	0.2	<0.05	<0.1	0.67	3.3
540949	Soil			0.005	0.09	<0.1	0.5	0.10	0.14	219	0.1	0.02	0.2	5.39	<0.1	<0.02	0.04	12.7	0.1	<0.05	0.1	0.15	0.5
1115051	Soil			0.008	0.04	<0.1	0.1	0.02	0.03	58	<0.1	<0.02	1.2	0.65	<0.1	<0.02	0.07	6.8	0.2	<0.05	<0.1	0.53	5.1
1115052	Soil			0.009	0.05	<0.1	0.1	0.02	0.05	84	<0.1	<0.02	1.0	0.46	<0.1	<0.02	0.05	4.5	0.2	<0.05	<0.1	2.72	7.1
1115053	Soil			0.007	0.04	0.9	0.6	0.02	0.03	59	<0.1	<0.02	2.5	0.37	<0.1	<0.02	0.26	4.7	0.2	<0.05	0.1	1.15	5.1
1115054	Soil			0.006	0.04	<0.1	0.6	0.06	0.02	33	<0.1	<0.02	3.3	0.66	<0.1	<0.02	0.25	5.2	0.3	<0.05	<0.1	1.48	4.7
1115055	Soil			0.007	0.04	0.2	0.2	0.04	0.03	52	<0.1	<0.02	1.8	0.48	<0.1	<0.02	0.12	4.6	0.3	<0.05	<0.1	1.16	5.0
1115056	Soil			0.010	0.08	1.6	0.2	0.03	0.05	80	<0.1	<0.02	1.5	0.52	<0.1	<0.02	0.11	7.0	0.2	<0.05	<0.1	0.77	3.5
1115057	Soil			0.007	0.05	<0.1	0.3	<0.02	0.03	56	<0.1	<0.02	2.7	0.55	<0.1	<0.02	0.10	5.1	0.2	<0.05	<0.1	0.88	3.6
1115058	Soil			0.007	0.03	<0.1	0.1	<0.02	0.03	34	<0.1	<0.02	2.1	0.53	<0.1	<0.02	0.09	5.0	0.2	<0.05	<0.1	0.77	3.4
1115059	Soil			0.007	0.04	0.1	0.7	0.05	0.07	51	0.3	<0.02	2.8	0.62	<0.1	<0.02	0.60	4.3	0.4	<0.05	<0.1	2.00	5.3

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Project: Aug 12, 2011 Shipment
Report Date: September 30, 2011

Page: 2 of 11 Part 6

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
				ppm	ppb	ppm	ppm	ppb	ppb
				0.02	1	0.1	0.1	10	2
540901	Soil			<0.02	<1	<0.1	0.3	<10	<2
540902	Soil			<0.02	<1	<0.1	0.4	<10	<2
540903	Soil			<0.02	<1	<0.1	0.2	<10	<2
540904	Soil			<0.02	<1	<0.1	0.2	<10	<2
540905	Soil			<0.02	<1	<0.1	0.6	<10	<2
540906	Soil			<0.02	<1	<0.1	0.2	<10	<2
540907	Soil			<0.02	<1	0.2	7.3	<10	<2
540908	Soil			<0.02	27	0.4	2.6	<10	<2
540909	Soil			<0.02	2	0.3	1.7	<10	<2
540910	Soil			<0.02	3	0.3	7.4	<10	<2
540911	Soil			<0.02	2	0.1	2.5	<10	<2
540912	Soil			<0.02	<1	0.2	0.7	<10	<2
540913	Soil			<0.02	<1	<0.1	0.6	<10	<2
540914	Soil			<0.02	1	<0.1	0.2	<10	<2
540915	Soil			<0.02	<1	<0.1	0.3	<10	<2
540916	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540917	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540918	Soil			<0.02	<1	<0.1	0.4	<10	<2
540919	Soil			<0.02	<1	0.1	0.4	<10	<2
540920	Soil			<0.02	<1	0.1	0.4	<10	<2
540949	Soil			<0.02	<1	<0.1	0.6	<10	<2
1115051	Soil			<0.02	<1	<0.1	0.2	<10	<2
1115052	Soil			<0.02	<1	0.2	0.4	<10	<2
1115053	Soil			<0.02	<1	<0.1	0.7	<10	<2
1115054	Soil			<0.02	<1	<0.1	0.6	<10	<2
1115055	Soil			<0.02	<1	<0.1	0.3	<10	<2
1115056	Soil			<0.02	<1	<0.1	0.4	<10	<2
1115057	Soil			<0.02	<1	<0.1	1.0	<10	<2
1115058	Soil			<0.02	<1	<0.1	0.3	<10	<2
1115059	Soil			<0.02	<1	0.1	0.8	<10	<2



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Page: 3 of 11 Part 1

CERTIFICATE OF ANALYSIS

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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	%	%
				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
1115060	Soil			3.52	106.2	3.51	14.8	468	4.0	4.6	411	0.97	0.4	3.0	4.0	0.2	58.8	0.62	0.18	0.07	33	1.96	0.091
1115061	Soil			5.89	251.2	6.43	16.7	861	6.6	51.7	3629	1.72	<0.1	0.6	2.1	<0.1	103.3	0.64	0.30	0.12	55	1.90	0.190
1115062	Soil			0.40	6.29	3.14	18.8	699	1.5	2.4	178	0.78	<0.1	0.1	4.1	0.2	29.5	0.10	0.08	0.08	30	0.32	0.033
1115063	Soil			0.63	10.93	4.21	13.7	248	3.0	3.2	101	1.57	<0.1	0.1	9.5	0.2	26.9	0.28	0.12	0.08	49	0.33	0.032
1115064	Soil			0.49	8.59	8.11	30.6	503	1.9	1.5	188	0.59	0.7	0.1	2.8	<0.1	31.2	0.32	0.13	0.07	20	0.30	0.054
1115065	Soil			1.85	228.8	2.55	9.8	836	5.9	2.5	251	0.96	<0.1	2.8	5.3	<0.1	125.9	0.41	0.26	0.05	23	2.04	0.240
1115066	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.
1115134	Soil			1.07	7.45	2.68	11.0	279	2.3	0.6	45	0.25	<0.1	0.1	1.4	<0.1	22.6	0.27	0.06	0.04	8	0.27	0.038
1115135	Soil			1.10	6.33	4.14	18.1	232	2.6	0.9	95	0.42	0.2	0.1	1.0	<0.1	18.8	0.39	0.10	0.06	11	0.27	0.046
1115136	Soil			2.56	13.74	6.19	29.8	588	6.2	3.8	87	1.51	0.5	0.1	0.7	<0.1	37.9	0.19	0.29	0.12	33	0.61	0.062
1115137	Soil			4.43	20.16	6.25	37.8	822	7.1	5.1	1322	1.44	0.8	0.2	2.5	<0.1	27.7	0.12	0.26	0.09	47	0.42	0.057
1115138	Soil			1.12	8.05	4.13	19.3	215	2.0	1.6	286	1.00	1.1	0.1	2.5	<0.1	31.6	0.08	0.13	0.07	29	0.29	0.042
1115139	Soil			0.73	8.66	5.04	26.5	787	3.3	3.8	514	1.26	1.0	<0.1	1.1	<0.1	31.1	0.12	0.14	0.07	41	0.34	0.072
1115140	Soil			1.91	17.91	5.09	10.0	201	2.6	2.1	123	1.66	0.8	0.3	0.8	0.1	45.0	0.23	0.15	0.10	41	0.33	0.033
1115141	Soil			1.34	8.54	6.67	17.5	289	2.6	2.1	87	1.53	1.1	0.2	8.5	<0.1	44.2	0.16	0.19	0.14	42	0.33	0.032
1115142	Soil			1.39	13.08	5.89	21.0	134	3.2	2.1	101	1.21	1.4	0.2	3.7	<0.1	40.2	0.17	0.17	0.12	37	0.32	0.042
1115143	Soil			2.43	98.40	6.26	26.1	295	9.6	6.7	256	1.54	1.6	1.0	9.8	0.3	93.8	0.22	0.38	0.11	45	1.15	0.105
1115144	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.
1115145	Soil			6.76	25.09	2.44	18.8	269	11.6	6.2	1113	7.70	5.8	<0.1	1.9	<0.1	64.9	0.61	0.21	0.11	13	1.39	0.181
1115146	Soil			1.66	32.13	5.05	30.5	1657	7.9	6.4	310	1.30	1.0	0.2	9.5	<0.1	33.3	0.46	0.23	0.12	32	0.33	0.084
1115147	Soil			1.83	36.01	8.54	49.8	1807	11.5	6.8	1233	1.11	2.4	0.2	2.6	<0.1	33.7	0.56	0.19	0.15	28	0.33	0.116
1115148	Soil			0.72	22.21	5.60	31.1	980	6.5	6.9	1216	0.59	1.2	0.2	1.8	<0.1	38.1	0.40	0.09	0.09	15	0.34	0.071
1115149	Soil			0.78	12.37	5.35	28.8	1117	4.5	6.0	268	0.67	1.3	0.1	18.0	<0.1	32.2	0.17	0.12	0.08	19	0.29	0.048
1115150	Soil			0.53	7.25	5.70	11.4	863	2.2	2.0	983	0.58	0.9	0.1	2.9	<0.1	20.6	0.15	0.07	0.08	16	0.12	0.050
541916	Soil			11.66	79.42	6.54	16.1	1145	5.3	4.2	174	0.49	1.3	0.6	<0.2	<0.1	79.4	0.63	0.15	0.11	15	0.64	0.077
541917	Soil			7.50	378.0	11.24	33.1	765	14.5	5.5	866	1.14	0.1	3.5	3.8	0.2	166.0	1.02	0.93	0.21	32	2.03	0.096
541918	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.
541919	Soil			5.45	12.42	3.70	13.1	909	2.8	0.6	152	0.19	<0.1	<0.1	<0.2	0.1	114.3	0.31	0.07	0.06	3	1.09	0.080
541920	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.
541921	Soil			1.19	5.72	5.82	37.5	1341	2.9	1.2	171	0.19	1.2	<0.1	<0.2	<0.1	36.6	0.32	0.08	0.28	6	0.35	0.074

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 3 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	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
1115060	Soil	4.5	8.3	0.24	42.8	0.016	2	0.49	0.008	0.05	0.2	1.6	0.07	0.17	244	1.7	<0.02	1.3	0.29	<0.1	<0.02
1115061	Soil	7.6	13.6	0.16	121.0	0.007	3	0.65	0.009	0.09	0.4	0.6	0.11	0.11	214	0.2	<0.02	2.2	1.30	<0.1	<0.02
1115062	Soil	2.2	6.7	0.16	120.6	0.070	1	0.33	0.007	0.14	<0.1	1.1	0.04	0.03	72	<0.1	<0.02	2.6	1.18	<0.1	<0.02
1115063	Soil	1.5	17.9	0.09	161.7	0.061	1	0.25	0.009	0.04	0.3	0.9	<0.02	0.03	59	<0.1	<0.02	2.6	0.52	<0.1	<0.02
1115064	Soil	1.9	7.4	0.05	125.0	0.007	1	0.30	0.010	0.05	<0.1	0.2	0.04	0.04	96	0.1	<0.02	2.1	0.40	<0.1	<0.02
1115065	Soil	21.4	15.1	0.20	199.4	0.003	2	0.86	0.009	0.05	0.2	1.8	0.08	0.19	164	0.3	<0.02	1.1	0.77	<0.1	<0.02
1115066	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.
1115134	Soil	3.3	6.3	0.04	129.2	0.012	2	0.15	0.008	0.05	<0.1	0.6	0.02	0.04	67	<0.1	0.03	0.9	0.42	<0.1	<0.02
1115135	Soil	3.3	9.9	0.04	115.4	0.010	2	0.19	0.007	0.04	<0.1	0.3	0.02	0.04	104	<0.1	<0.02	1.3	0.44	<0.1	<0.02
1115136	Soil	1.4	59.7	0.16	123.6	0.043	2	0.22	0.008	0.07	0.4	2.0	0.03	0.09	150	0.2	0.03	2.6	0.84	<0.1	<0.02
1115137	Soil	2.7	32.9	0.29	106.3	0.045	2	0.45	0.010	0.07	0.2	1.3	0.06	0.05	143	0.1	0.02	3.3	1.31	<0.1	<0.02
1115138	Soil	2.0	10.8	0.06	95.0	0.037	2	0.22	0.009	0.05	0.1	0.7	0.04	0.04	95	0.2	<0.02	1.7	0.51	<0.1	<0.02
1115139	Soil	1.5	12.3	0.21	129.3	0.061	2	0.37	0.009	0.08	0.2	0.8	0.10	0.05	199	0.2	<0.02	2.8	1.00	<0.1	<0.02
1115140	Soil	3.6	10.0	0.05	197.1	0.052	1	0.36	0.006	0.04	0.1	1.3	<0.02	0.03	45	<0.1	<0.02	2.5	0.57	<0.1	<0.02
1115141	Soil	3.3	11.7	0.05	129.6	0.043	1	0.30	0.006	0.04	<0.1	0.7	0.04	0.03	69	<0.1	0.04	2.8	0.53	<0.1	<0.02
1115142	Soil	4.3	9.3	0.07	156.4	0.032	1	0.44	0.006	0.04	0.1	0.6	0.03	0.03	69	<0.1	0.04	3.4	0.48	<0.1	<0.02
1115143	Soil	9.9	21.3	0.49	62.8	0.027	2	0.80	0.008	0.08	0.3	2.0	0.06	0.09	81	0.1	0.03	2.8	0.91	<0.1	<0.02
1115144	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.
1115145	Soil	1.0	6.6	0.16	141.5	0.002	2	0.12	0.016	0.04	<0.1	0.6	0.04	0.23	85	0.7	0.05	0.3	0.17	<0.1	<0.02
1115146	Soil	4.8	13.5	0.35	123.6	0.005	<1	0.67	0.007	0.07	0.3	0.4	0.03	0.05	113	0.3	0.07	2.4	0.47	<0.1	<0.02
1115147	Soil	5.4	13.8	0.21	210.3	0.004	2	0.61	0.009	0.07	0.2	0.2	0.04	0.05	104	0.3	<0.02	2.8	0.54	<0.1	<0.02
1115148	Soil	3.8	7.9	0.11	194.2	0.002	<1	0.38	0.006	0.04	<0.1	0.1	0.02	0.04	66	0.2	<0.02	1.8	0.44	<0.1	<0.02
1115149	Soil	2.8	8.5	0.14	141.8	0.005	<1	0.34	0.006	0.05	0.2	0.2	<0.02	0.03	85	0.1	0.02	2.2	0.35	<0.1	<0.02
1115150	Soil	2.4	8.3	0.06	127.7	0.003	<1	0.36	0.006	0.03	<0.1	<0.1	0.04	0.02	56	<0.1	<0.02	2.5	0.35	<0.1	<0.02
541916	Soil	3.1	5.4	0.07	55.2	0.010	<1	0.21	0.009	0.05	0.1	0.8	0.04	0.13	156	0.4	0.03	1.0	1.31	<0.1	<0.02
541917	Soil	11.0	15.6	0.35	98.0	0.015	2	0.74	0.014	0.10	0.1	2.3	0.17	0.14	152	1.2	0.04	2.1	5.99	0.1	<0.02
541918	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.
541919	Soil	0.5	3.7	0.02	94.6	0.005	1	0.08	0.006	0.05	<0.1	0.4	<0.02	0.12	207	0.4	<0.02	0.3	0.36	<0.1	<0.02
541920	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.
541921	Soil	2.3	6.9	0.05	87.2	0.005	1	0.17	0.008	0.08	0.1	0.2	<0.02	0.06	173	0.2	0.03	1.2	0.32	<0.1	<0.02

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 3 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	MDL	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	
1115060	Soil	0.24	1.9	0.2	<0.05	0.3	5.32	3.6	<0.02	<1	0.1	2.5	<10	<2	3.20	108.7	3.70	14.3	456	3.8	4.0
1115061	Soil	0.13	12.7	0.2	<0.05	<0.1	8.75	16.5	<0.02	<1	0.3	1.2	<10	<2	5.07	257.1	7.01	17.6	868	6.0	48.1
1115062	Soil	0.65	25.1	0.3	<0.05	0.2	1.18	4.2	<0.02	<1	<0.1	0.6	<10	<2	0.33	5.95	3.11	18.9	672	1.3	2.1
1115063	Soil	0.30	5.8	0.2	<0.05	0.1	1.33	2.9	<0.02	<1	<0.1	0.4	<10	<2	0.53	10.08	4.41	13.5	200	2.6	2.7
1115064	Soil	0.11	3.8	0.2	<0.05	<0.1	0.75	3.5	<0.02	<1	<0.1	0.4	<10	<2	0.38	8.25	8.44	33.2	479	1.8	1.4
1115065	Soil	0.17	9.1	0.1	<0.05	<0.1	19.61	18.5	<0.02	<1	0.5	1.5	13	<2	1.66	239.1	2.66	10.2	795	5.4	2.2
1115066	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.	1.51	11.38	5.52	20.8	263	1.4	0.8
1115134	Soil	0.12	2.5	0.1	<0.05	<0.1	0.59	6.2	<0.02	<1	<0.1	0.3	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1115135	Soil	0.17	4.4	0.2	<0.05	0.1	0.70	6.2	<0.02	<1	<0.1	0.5	<10	<2	0.99	6.69	4.41	19.2	227	2.6	0.8
1115136	Soil	0.27	5.4	0.2	<0.05	0.1	0.86	2.6	<0.02	<1	<0.1	0.7	<10	3	2.14	13.54	6.45	29.6	518	5.8	3.2
1115137	Soil	0.24	9.3	0.2	<0.05	0.1	1.22	5.0	<0.02	<1	<0.1	2.1	<10	2	3.99	19.87	6.58	40.3	835	6.2	4.6
1115138	Soil	0.25	4.8	0.3	<0.05	<0.1	0.93	3.7	<0.02	<1	<0.1	0.4	<10	<2	1.03	8.52	5.04	21.9	207	2.0	1.4
1115139	Soil	0.41	15.8	0.2	<0.05	0.2	1.12	2.9	<0.02	<1	<0.1	1.3	<10	<2	0.56	8.42	5.22	25.7	689	2.7	3.2
1115140	Soil	0.71	7.5	0.3	<0.05	<0.1	2.56	5.9	<0.02	<1	<0.1	0.3	<10	<2	1.53	17.75	5.69	10.1	197	2.3	1.9
1115141	Soil	0.53	4.3	0.4	<0.05	<0.1	1.36	6.2	<0.02	<1	<0.1	0.6	<10	<2	1.11	8.20	7.11	19.2	284	1.9	1.7
1115142	Soil	0.43	4.3	0.4	<0.05	<0.1	1.74	7.6	<0.02	<1	0.1	0.6	<10	<2	0.97	12.70	6.16	18.5	117	2.7	1.7
1115143	Soil	0.35	20.8	0.1	<0.05	0.3	9.34	10.4	<0.02	<1	0.3	5.4	<10	<2	2.08	98.05	6.72	25.5	285	9.2	6.2
1115144	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.	1.38	52.34	7.45	29.3	1158	13.1	5.8
1115145	Soil	0.06	1.6	0.1	<0.05	0.1	2.31	1.8	<0.02	4	<0.1	0.2	<10	<2	6.43	29.06	3.22	21.5	318	11.0	6.6
1115146	Soil	0.06	6.9	0.2	<0.05	<0.1	3.68	9.7	<0.02	<1	0.3	2.7	<10	<2	1.80	39.14	6.80	38.6	1978	8.9	7.1
1115147	Soil	0.05	6.4	0.2	<0.05	<0.1	3.68	10.3	<0.02	<1	0.4	1.6	<10	<2	1.55	37.94	10.10	52.0	1845	10.4	6.2
1115148	Soil	0.07	4.9	0.2	<0.05	<0.1	2.25	7.9	<0.02	1	0.2	0.6	<10	<2	0.60	26.53	7.32	36.3	1061	6.9	7.1
1115149	Soil	0.19	4.1	0.1	<0.05	<0.1	0.81	5.5	<0.02	<1	<0.1	1.1	<10	<2	0.78	15.36	7.15	33.3	1194	4.4	6.1
1115150	Soil	0.04	3.4	0.2	<0.05	<0.1	0.78	4.9	<0.02	<1	<0.1	0.4	<10	<2	0.38	9.29	6.70	16.7	838	2.1	1.9
541916	Soil	0.25	5.5	0.1	<0.05	0.3	4.37	4.0	<0.02	<1	0.2	0.7	<10	<2	11.09	90.86	8.22	17.6	1174	4.8	4.4
541917	Soil	0.38	17.1	0.2	<0.05	0.6	21.00	7.0	<0.02	<1	0.4	5.9	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541918	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.	5.42	15.10	12.46	48.1	928	2.3	1.8
541919	Soil	0.09	4.5	0.1	<0.05	0.4	0.29	1.0	<0.02	2	<0.1	0.1	<10	<2	4.57	12.52	4.03	12.4	853	2.3	0.5
541920	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.	3.98	17.45	3.68	7.5	346	1.8	0.6
541921	Soil	0.08	3.7	0.2	<0.05	<0.1	0.40	4.3	<0.02	<1	<0.1	0.5	<10	<2	1.19	6.15	7.19	40.1	1287	2.8	1.0

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 3 of 11 Part 4

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	
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	
1115060	Soil	417	0.92	0.8	3.1	3.1	0.2	60.8	0.72	0.15	0.07	31	1.99	0.094	4.7	7.3	0.23	42.5	0.011	<20	0.44	
1115061	Soil	3882	1.64	0.6	0.6	1.6	<0.1	104.7	0.72	0.29	0.11	51	2.01	0.201	8.1	12.1	0.15	120.4	0.005	<20	0.67	
1115062	Soil	174	0.70	0.1	0.1	1.4	0.1	24.3	0.09	0.06	0.06	27	0.28	0.035	1.9	5.2	0.17	115.5	0.052	<20	0.31	
1115063	Soil	103	1.48	0.4	<0.1	0.7	<0.1	26.0	0.27	0.11	0.06	46	0.33	0.035	1.4	16.0	0.09	157.0	0.054	<20	0.23	
1115064	Soil	193	0.50	0.3	<0.1	0.9	<0.1	28.7	0.30	0.08	0.09	17	0.29	0.063	1.6	9.3	0.05	128.6	0.003	<20	0.29	
1115065	Soil	246	0.94	0.3	2.8	4.1	<0.1	132.2	0.42	0.25	0.06	22	2.11	0.231	22.9	13.8	0.21	206.8	0.002	<20	0.88	
1115066	Soil	140	0.13	0.3	<0.1	3.1	<0.1	81.6	0.48	0.12	0.16	3	1.33	0.096	<0.5	3.0	0.10	137.2	0.003	<20	0.08	
1115134	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.	I.S.
1115135	Soil	107	0.39	0.5	0.1	2.4	<0.1	18.5	0.40	0.09	0.37	10	0.30	0.053	2.6	8.9	0.04	119.8	0.005	<20	0.18	
1115136	Soil	86	1.42	1.0	<0.1	5.1	<0.1	36.0	0.22	0.20	0.17	32	0.56	0.064	1.2	54.3	0.16	119.5	0.033	<20	0.20	
1115137	Soil	1473	1.25	0.9	0.2	2.3	<0.1	24.7	0.09	0.17	0.12	40	0.43	0.067	2.4	28.3	0.30	113.6	0.033	<20	0.44	
1115138	Soil	318	0.80	0.4	0.1	2.1	<0.1	30.0	0.12	0.10	0.10	22	0.32	0.050	1.9	8.8	0.06	105.2	0.023	<20	0.22	
1115139	Soil	494	1.16	0.6	<0.1	1.9	<0.1	28.7	0.15	0.13	0.11	38	0.33	0.073	1.5	11.4	0.21	124.0	0.054	<20	0.35	
1115140	Soil	132	1.44	0.3	0.3	3.7	<0.1	43.1	0.26	0.12	0.12	37	0.31	0.037	3.7	8.4	0.05	206.2	0.039	<20	0.36	
1115141	Soil	87	1.19	0.5	0.2	1.8	<0.1	44.2	0.19	0.16	0.15	35	0.33	0.034	3.1	9.5	0.06	136.0	0.032	<20	0.29	
1115142	Soil	95	1.00	0.6	0.2	1.9	<0.1	32.4	0.18	0.14	0.13	30	0.26	0.041	3.5	7.7	0.07	151.0	0.017	<20	0.38	
1115143	Soil	249	1.41	1.3	1.0	23.2	0.2	91.5	0.25	0.34	0.13	40	1.16	0.111	9.6	18.7	0.47	62.4	0.016	<20	0.74	
1115144	Soil	100	0.96	1.0	0.3	4.5	<0.1	74.1	1.03	0.37	0.12	19	0.77	0.118	12.3	9.1	0.31	295.6	0.005	<20	0.64	
1115145	Soil	1196	8.40	8.7	0.1	2.6	<0.1	81.5	0.77	0.20	0.10	17	1.66	0.213	1.2	7.0	0.19	163.0	0.002	<20	0.12	
1115146	Soil	361	1.38	1.2	0.3	10.2	<0.1	42.7	0.61	0.25	0.13	35	0.40	0.100	5.8	14.9	0.38	147.8	0.004	<20	0.75	
1115147	Soil	1241	1.05	1.2	0.2	3.4	<0.1	35.4	0.69	0.18	0.15	28	0.33	0.099	5.3	13.8	0.22	221.4	0.002	<20	0.65	
1115148	Soil	1250	0.62	0.3	0.2	2.8	<0.1	49.3	0.51	0.10	0.13	17	0.39	0.075	5.1	10.9	0.14	217.2	0.003	<20	0.46	
1115149	Soil	312	0.76	0.6	0.2	28.5	<0.1	43.8	0.27	0.12	0.11	23	0.35	0.057	3.6	10.4	0.18	166.3	0.007	<20	0.44	
1115150	Soil	982	0.58	0.2	0.1	1.8	<0.1	22.6	0.20	0.07	0.09	17	0.13	0.046	2.7	8.8	0.07	134.3	0.003	<20	0.41	
541916	Soil	198	0.49	0.6	0.7	1.8	<0.1	89.4	0.89	0.18	0.13	16	0.69	0.086	3.8	6.2	0.08	61.8	0.009	<20	0.23	
541917	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.	I.S.
541918	Soil	348	0.51	0.4	<0.1	0.5	<0.1	66.7	1.37	0.12	0.11	12	0.55	0.093	1.2	3.6	0.08	211.9	0.011	<20	0.16	
541919	Soil	150	0.16	0.5	<0.1	1.2	<0.1	113.4	0.38	0.10	0.06	3	1.08	0.079	0.5	3.4	0.02	92.7	0.004	<20	0.08	
541920	Soil	44	0.13	0.1	<0.1	1.3	<0.1	79.1	0.47	0.09	0.06	3	0.37	0.063	0.7	2.8	0.05	46.7	0.003	<20	0.08	
541921	Soil	184	0.22	0.7	<0.1	2.2	<0.1	42.0	0.43	0.09	0.08	7	0.37	0.076	2.6	6.3	0.05	90.9	0.006	<20	0.18	

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 3 of 11 Part 5

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
1115060	Soil			0.008	0.05	0.2	1.2	0.06	0.17	224	1.7	0.02	1.2	0.22	<0.1	<0.02	0.21	1.6	0.1	<0.05	0.4	5.45	3.2
1115061	Soil			0.009	0.09	0.4	0.6	0.08	0.11	241	0.3	0.04	2.0	1.03	<0.1	<0.02	0.10	11.5	0.1	<0.05	<0.1	9.10	16.0
1115062	Soil			0.005	0.14	<0.1	0.9	0.04	0.03	79	<0.1	<0.02	2.4	1.10	<0.1	<0.02	0.53	25.6	0.3	<0.05	0.2	0.90	3.1
1115063	Soil			0.007	0.04	0.3	0.9	<0.02	0.03	58	<0.1	<0.02	2.5	0.47	<0.1	<0.02	0.28	5.4	0.2	<0.05	0.1	1.13	2.4
1115064	Soil			0.010	0.05	<0.1	0.2	0.02	0.04	82	<0.1	<0.02	2.0	0.34	<0.1	<0.02	0.07	3.8	0.2	<0.05	<0.1	0.56	2.8
1115065	Soil			0.009	0.05	0.1	0.9	0.05	0.19	183	0.4	<0.02	1.1	0.59	<0.1	<0.02	0.17	7.8	<0.1	<0.05	<0.1	20.80	18.0
1115066	Soil			0.007	0.10	<0.1	0.4	0.04	0.12	143	0.3	<0.02	0.2	0.10	<0.1	<0.02	0.04	3.8	0.2	<0.05	0.2	0.37	0.6
1115134	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.
1115135	Soil			0.007	0.04	<0.1	0.2	0.04	0.04	112	0.2	<0.02	1.2	0.38	<0.1	<0.02	0.11	4.3	0.2	<0.05	<0.1	0.55	4.3
1115136	Soil			0.007	0.06	0.3	2.0	0.06	0.09	158	0.1	0.05	2.6	0.75	<0.1	<0.02	0.21	5.2	0.2	<0.05	0.2	0.65	2.0
1115137	Soil			0.008	0.06	0.1	1.2	0.07	0.05	181	0.1	0.02	3.2	1.18	<0.1	<0.02	0.18	9.1	0.2	<0.05	<0.1	1.00	4.3
1115138	Soil			0.008	0.05	<0.1	0.5	0.05	0.05	121	0.2	<0.02	1.7	0.43	<0.1	<0.02	0.24	4.8	0.3	<0.05	<0.1	0.72	3.2
1115139	Soil			0.008	0.08	0.2	0.8	0.10	0.05	197	0.2	0.02	2.8	0.88	<0.1	<0.02	0.37	15.5	0.2	<0.05	0.2	0.98	2.5
1115140	Soil			0.005	0.03	<0.1	1.1	<0.02	0.03	50	<0.1	<0.02	2.5	0.46	<0.1	<0.02	0.55	7.2	0.3	<0.05	<0.1	2.52	5.4
1115141	Soil			0.005	0.03	<0.1	0.5	0.04	0.03	65	0.1	<0.02	3.0	0.42	<0.1	<0.02	0.49	4.4	0.4	<0.05	<0.1	1.16	5.6
1115142	Soil			0.005	0.03	<0.1	0.4	<0.02	0.02	61	0.1	<0.02	2.9	0.32	<0.1	<0.02	0.29	3.6	0.4	<0.05	<0.1	1.35	5.7
1115143	Soil			0.007	0.07	0.2	1.3	0.05	0.08	70	0.2	0.02	2.5	0.67	<0.1	<0.02	0.21	18.5	0.1	<0.05	0.3	8.87	8.7
1115144	Soil			0.012	0.07	0.2	0.6	0.04	0.11	133	0.2	0.03	1.7	0.33	<0.1	<0.02	0.19	4.5	0.2	<0.05	<0.1	12.86	19.4
1115145	Soil			0.019	0.04	<0.1	0.6	0.05	0.23	115	0.6	0.07	0.3	0.14	<0.1	<0.02	0.07	1.7	<0.1	<0.05	<0.1	2.73	1.8
1115146	Soil			0.007	0.08	0.2	0.3	0.04	0.07	98	0.3	0.02	2.8	0.34	<0.1	<0.02	0.11	6.4	0.2	<0.05	<0.1	4.66	10.1
1115147	Soil			0.008	0.07	0.2	0.2	0.03	0.06	107	0.2	0.03	2.7	0.37	<0.1	<0.02	0.05	5.0	0.2	<0.05	<0.1	3.89	9.1
1115148	Soil			0.006	0.05	<0.1	0.2	0.03	0.05	61	0.2	<0.02	2.3	0.50	<0.1	<0.02	0.04	6.9	0.2	<0.05	<0.1	2.82	8.8
1115149	Soil			0.006	0.06	0.1	0.3	0.03	0.04	91	0.2	<0.02	2.7	0.35	<0.1	<0.02	0.11	4.9	0.2	<0.05	<0.1	1.08	6.5
1115150	Soil			0.007	0.03	<0.1	0.1	0.04	0.03	52	0.1	<0.02	2.8	0.36	<0.1	<0.02	0.03	3.6	0.3	<0.05	<0.1	0.78	4.8
541916	Soil			0.010	0.05	0.1	0.6	0.04	0.14	157	0.4	<0.02	1.1	1.23	<0.1	<0.02	0.26	5.9	0.1	<0.05	0.2	5.16	4.2
541917	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.
541918	Soil			0.012	0.08	<0.1	0.4	0.03	0.09	147	0.2	<0.02	1.2	1.48	<0.1	<0.02	0.20	11.2	0.2	<0.05	<0.1	0.58	2.2
541919	Soil			0.006	0.05	<0.1	0.3	<0.02	0.13	193	0.3	<0.02	0.3	0.31	<0.1	<0.02	0.08	4.3	<0.1	<0.05	0.2	0.25	0.8
541920	Soil			0.010	0.04	0.1	0.3	<0.02	0.16	127	0.3	<0.02	0.2	0.81	<0.1	<0.02	0.04	4.5	<0.1	<0.05	0.2	0.66	0.6
541921	Soil			0.008	0.08	<0.1	0.3	0.04	0.07	161	0.2	<0.02	1.4	0.37	<0.1	<0.02	0.10	4.1	0.2	<0.05	<0.1	0.48	4.3

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Project: Aug 12, 2011 Shipment
Report Date: September 30, 2011

Page: 3 of 11 Part 6

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	1	0.1	0.1	10	2
1115060	Soil	<0.02	<1	0.2	2.3	<10	<2
1115061	Soil	<0.02	<1	0.3	1.2	<10	<2
1115062	Soil	<0.02	<1	<0.1	0.7	<10	<2
1115063	Soil	<0.02	<1	<0.1	0.4	<10	<2
1115064	Soil	<0.02	<1	<0.1	0.4	<10	<2
1115065	Soil	<0.02	<1	0.6	1.4	<10	<2
1115066	Soil	<0.02	<1	<0.1	0.2	<10	<2
1115134	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1115135	Soil	<0.02	<1	<0.1	0.3	<10	<2
1115136	Soil	<0.02	<1	<0.1	0.8	<10	6
1115137	Soil	<0.02	<1	<0.1	2.2	<10	<2
1115138	Soil	<0.02	<1	<0.1	0.4	<10	<2
1115139	Soil	<0.02	<1	<0.1	1.3	<10	<2
1115140	Soil	<0.02	<1	0.1	0.3	<10	<2
1115141	Soil	<0.02	<1	<0.1	0.5	<10	<2
1115142	Soil	<0.02	<1	0.1	0.5	<10	<2
1115143	Soil	<0.02	<1	0.2	4.9	<10	<2
1115144	Soil	<0.02	<1	0.3	1.6	<10	<2
1115145	Soil	<0.02	1	<0.1	0.2	<10	<2
1115146	Soil	<0.02	<1	0.2	3.2	<10	<2
1115147	Soil	<0.02	<1	0.3	1.7	<10	<2
1115148	Soil	<0.02	<1	0.1	1.0	<10	<2
1115149	Soil	<0.02	<1	0.1	1.5	<10	<2
1115150	Soil	<0.02	<1	<0.1	0.5	<10	<2
541916	Soil	<0.02	<1	0.1	1.1	<10	<2
541917	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541918	Soil	<0.02	<1	<0.1	0.4	<10	<2
541919	Soil	<0.02	<1	<0.1	0.2	<10	<2
541920	Soil	<0.02	<1	<0.1	0.2	<10	<2
541921	Soil	<0.02	1	<0.1	0.6	<10	<2

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 Report Date: September 30, 2011

Page: 4 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	%	%
				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
541922	Soil			1.08	7.68	9.11	24.0	1272	2.6	1.4	316	0.54	1.8	0.1	1.5	<0.1	19.6	0.22	0.08	0.16	14	0.17	0.051
541923	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.
541924	Soil			2.81	315.1	11.89	24.6	524	13.6	5.3	1021	1.09	<0.1	1.7	0.7	0.3	249.0	1.51	0.50	0.20	22	2.44	0.105
541925	Soil			3.41	148.0	4.21	23.7	568	6.0	1.0	606	0.13	<0.1	0.6	0.3	<0.1	228.1	1.12	0.23	0.10	6	2.14	0.096
541926	Soil			1.98	80.41	9.17	18.9	242	7.1	4.9	182	1.32	0.6	2.4	4.8	0.4	79.2	0.30	0.19	0.16	27	0.83	0.113
541927	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.
541928	Soil			1.17	8.42	7.22	37.6	445	1.8	1.0	159	0.51	<0.1	0.1	0.7	<0.1	34.3	0.32	0.09	0.08	14	0.31	0.056
541929	Soil			1.03	70.94	4.63	9.9	402	6.5	2.9	214	0.57	<0.1	0.2	1.1	<0.1	96.1	0.70	0.20	0.07	18	1.91	0.083
541930	Soil			1.53	14.12	9.17	28.4	354	3.1	1.5	84	0.67	<0.1	0.2	<0.2	<0.1	30.3	0.32	0.08	0.07	21	0.42	0.058
541931	Soil			1.36	14.47	6.84	19.6	898	4.1	5.1	1409	0.73	<0.1	0.1	4.5	<0.1	33.2	0.40	0.09	0.08	24	0.24	0.036
541932	Soil			1.02	6.59	6.79	8.5	586	1.7	1.0	41	0.36	0.3	<0.1	0.5	<0.1	28.4	0.20	0.09	0.06	15	0.25	0.025
541933	Soil			1.07	5.72	6.60	35.7	208	2.1	2.3	1443	0.71	0.6	0.1	<0.2	<0.1	20.9	0.30	0.08	0.06	22	0.34	0.054
541934	Soil			0.81	8.00	8.69	17.5	575	3.0	3.4	812	1.02	0.8	0.1	0.7	<0.1	24.0	0.18	0.10	0.07	33	0.26	0.047
541935	Soil			1.22	21.76	3.23	39.0	114	10.7	8.9	297	1.80	1.6	0.1	0.8	0.1	39.0	0.10	0.15	0.02	72	0.58	0.044
541936	Soil			0.46	8.76	5.30	24.8	1887	2.2	1.6	159	0.57	1.4	<0.1	0.6	<0.1	19.2	0.09	0.07	0.05	21	0.31	0.059
541937	Soil			4.79	13.63	5.77	16.3	424	4.8	4.6	613	1.51	1.1	<0.1	1.6	<0.1	25.4	0.13	0.13	0.05	41	0.39	0.064
541938	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.
541939	Soil			0.63	9.43	8.52	29.2	648	3.1	1.5	250	0.58	0.7	<0.1	7.1	<0.1	27.6	0.25	0.07	0.08	17	0.40	0.068
541940	Soil			7.27	85.83	8.39	30.6	807	3.1	4.4	2113	0.96	<0.1	<0.1	1.5	0.1	57.5	0.39	0.15	0.08	26	1.15	0.072
541941	Soil			5.12	33.78	16.25	15.1	495	6.8	43.3	7597	1.15	<0.1	0.2	0.7	<0.1	40.8	0.48	0.18	0.10	36	1.08	0.096
541943	Soil			1.09	124.9	6.48	18.5	1254	7.6	27.9	358	1.21	3.6	0.2	2.3	<0.1	62.9	0.37	0.20	0.84	25	1.25	0.153
541944	Soil			1.03	8.60	3.87	62.2	719	2.3	2.2	115	0.26	<0.1	<0.1	<0.2	<0.1	42.9	1.13	0.09	0.14	8	0.85	0.094
541945	Soil			1.26	11.76	9.98	23.6	763	3.9	4.0	510	1.05	1.8	<0.1	1.4	<0.1	29.5	0.24	0.11	0.09	37	0.28	0.062
541946	Soil			3.02	11.53	4.63	29.0	213	3.3	0.6	46	0.12	4.0	<0.1	1.1	0.1	28.5	0.09	0.14	0.13	2	0.57	0.116
541947	Soil			0.79	7.29	4.94	73.2	317	1.7	0.7	1051	0.07	0.5	<0.1	5.2	<0.1	36.8	0.16	0.13	0.18	<2	0.77	0.126
541948	Soil			1.22	9.12	14.05	22.8	825	3.1	1.7	162	0.53	2.8	<0.1	1.7	<0.1	44.5	0.18	0.15	0.19	16	0.50	0.087
541949	Soil			1.27	12.49	8.62	51.6	442	2.6	2.1	1145	0.72	2.8	0.1	1.4	<0.1	21.9	0.38	0.12	0.06	17	0.32	0.110
1115044	Soil			2.24	16.70	5.89	45.3	4307	2.7	1.9	204	0.79	3.3	<0.1	1.3	<0.1	31.3	0.17	0.12	0.11	24	0.34	0.106
1115045	Soil			3.59	530.7	4.53	19.2	869	6.9	4.6	1316	0.62	1.1	1.3	3.2	<0.1	214.2	0.80	0.47	0.13	21	2.23	0.110
1115046	Soil			7.81	82.30	14.97	83.6	898	5.6	19.4	9943	0.54	0.2	0.2	1.0	<0.1	95.7	1.38	0.19	0.08	16	1.18	0.184

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 4 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	
541922	Soil	4.0	6.5	0.07	154.2	0.008	<1	0.37	0.007	0.05	<0.1	0.2	0.04	0.03	85	0.2	<0.02	2.4	0.41	<0.1	<0.02
541923	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.
541924	Soil	42.6	12.3	0.28	153.7	0.011	2	0.86	0.007	0.09	0.2	2.2	0.10	0.13	133	0.5	0.05	2.1	1.10	<0.1	<0.02
541925	Soil	13.3	5.2	0.13	95.1	0.002	3	0.19	0.011	0.06	<0.1	0.4	0.05	0.20	176	0.5	<0.02	0.2	0.12	<0.1	<0.02
541926	Soil	10.4	11.2	0.27	115.8	0.009	<1	0.87	0.016	0.07	0.2	2.1	0.09	0.13	155	0.3	0.03	2.7	1.12	<0.1	<0.02
541927	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.
541928	Soil	1.6	4.2	0.04	133.0	0.015	<1	0.16	0.008	0.06	0.1	0.4	<0.02	0.05	146	0.1	<0.02	1.3	0.31	<0.1	<0.02
541929	Soil	1.7	7.3	0.18	179.4	0.011	2	0.34	0.010	0.09	0.4	1.0	0.02	0.13	115	0.5	<0.02	1.3	0.29	<0.1	<0.02
541930	Soil	1.7	6.6	0.05	198.5	0.007	<1	0.21	0.009	0.06	<0.1	0.2	<0.02	0.05	84	0.1	<0.02	1.3	0.28	<0.1	<0.02
541931	Soil	1.8	9.8	0.05	545.7	0.022	<1	0.28	0.007	0.04	<0.1	0.4	0.05	0.03	75	0.1	<0.02	1.9	0.33	<0.1	<0.02
541932	Soil	1.7	5.8	0.04	120.9	0.021	<1	0.22	0.006	0.03	<0.1	0.3	<0.02	<0.02	55	<0.1	<0.02	1.4	0.23	<0.1	<0.02
541933	Soil	1.4	8.4	0.07	149.4	0.027	<1	0.23	0.007	0.06	0.1	0.5	0.04	0.04	84	0.2	<0.02	2.5	0.27	<0.1	<0.02
541934	Soil	1.6	11.4	0.12	199.8	0.031	<1	0.33	0.008	0.06	0.1	0.5	0.04	0.03	67	0.2	0.03	2.5	0.31	<0.1	<0.02
541935	Soil	1.3	39.4	0.69	61.9	0.112	<1	0.84	0.011	0.12	0.7	1.5	0.03	0.04	143	0.2	<0.02	4.1	0.52	<0.1	<0.02
541936	Soil	1.2	7.7	0.10	88.3	0.024	<1	0.22	0.009	0.06	0.2	0.3	0.03	0.05	123	0.2	<0.02	1.9	0.53	<0.1	<0.02
541937	Soil	1.0	17.2	0.19	117.9	0.049	<1	0.32	0.013	0.09	0.7	0.7	0.06	0.05	77	0.2	0.04	2.3	1.13	<0.1	<0.02
541938	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.
541939	Soil	1.5	8.8	0.06	158.7	0.019	<1	0.23	0.009	0.06	0.3	0.4	0.03	0.06	185	<0.1	<0.02	1.4	0.32	<0.1	<0.02
541940	Soil	1.6	8.0	0.11	125.8	0.036	<1	0.19	0.005	0.08	0.4	1.0	0.06	0.07	110	0.2	0.02	1.2	2.77	<0.1	<0.02
541941	Soil	3.8	9.9	0.17	192.9	0.026	<1	0.35	0.008	0.08	0.4	1.3	0.14	0.06	132	0.2	<0.02	1.8	1.71	<0.1	<0.02
541943	Soil	6.1	11.2	0.19	152.2	0.009	2	0.41	0.008	0.08	0.1	1.0	0.05	0.11	143	0.5	<0.02	1.0	1.42	<0.1	<0.02
541944	Soil	0.5	6.8	0.09	92.6	0.013	2	0.11	0.006	0.08	<0.1	0.6	<0.02	0.12	148	0.3	0.02	0.6	0.27	<0.1	<0.02
541945	Soil	1.7	14.2	0.14	207.1	0.042	<1	0.37	0.012	0.08	<0.1	0.5	0.04	0.04	83	0.2	<0.02	2.4	0.56	<0.1	<0.02
541946	Soil	0.6	6.9	0.06	144.8	0.004	2	0.07	0.012	0.13	0.1	0.5	<0.02	0.12	150	0.5	<0.02	0.2	0.15	<0.1	<0.02
541947	Soil	<0.5	3.6	0.07	200.9	0.003	3	0.06	0.008	0.10	<0.1	0.7	0.06	0.12	314	0.3	<0.02	0.2	0.19	<0.1	<0.02
541948	Soil	1.5	8.8	0.08	323.5	0.018	1	0.21	0.011	0.11	<0.1	0.5	0.03	0.07	101	0.4	<0.02	1.2	0.38	<0.1	<0.02
541949	Soil	1.5	6.1	0.13	126.2	0.009	1	0.30	0.012	0.12	<0.1	0.2	0.07	0.09	106	0.3	<0.02	1.5	0.36	<0.1	<0.02
1115044	Soil	0.9	11.1	0.10	85.2	0.022	2	0.17	0.006	0.11	0.1	0.4	0.05	0.10	134	0.3	<0.02	1.3	0.82	<0.1	<0.02
1115045	Soil	13.1	7.5	0.18	156.0	0.012	2	0.47	0.008	0.08	0.1	0.8	0.22	0.15	176	0.6	<0.02	1.2	1.73	<0.1	<0.02
1115046	Soil	5.6	3.4	0.12	320.1	0.007	1	0.25	0.004	0.16	0.1	0.4	0.16	0.13	265	0.2	<0.02	1.1	1.46	<0.1	<0.02

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 Report Date: September 30, 2011

Page: 4 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	ppm	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	
541922	Soil	0.13	5.0	0.3	<0.05	<0.1	0.80	8.2	<0.02	2	<0.1	0.9	<10	<2	0.91	8.06	10.51	25.6	1229	2.3	1.1
541923	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.	7.22	256.5	4.11	12.9	569	7.5	0.9
541924	Soil	0.48	20.8	0.2	<0.05	0.5	36.19	12.1	<0.02	<1	0.6	4.1	<10	<2	2.79	352.5	15.51	27.1	569	13.9	5.1
541925	Soil	0.06	3.4	0.1	<0.05	0.4	14.58	2.0	<0.02	2	0.1	0.3	<10	<2	2.96	161.5	5.21	26.0	599	5.9	1.0
541926	Soil	0.27	12.3	0.2	<0.05	0.2	9.12	16.1	<0.02	<1	0.4	3.7	<10	<2	1.86	82.92	10.78	18.1	253	6.1	4.3
541927	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.	3.26	14.64	1.20	15.0	43	4.5	1.2
541928	Soil	0.20	5.6	0.2	<0.05	<0.1	0.58	3.0	<0.02	3	<0.1	0.2	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541929	Soil	0.19	5.9	0.1	<0.05	0.3	2.96	3.3	<0.02	<1	<0.1	0.7	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541930	Soil	0.16	3.7	0.2	<0.05	<0.1	0.85	3.2	<0.02	2	<0.1	0.1	<10	<2	1.11	13.28	10.14	26.9	338	2.5	1.3
541931	Soil	0.22	2.7	0.3	<0.05	<0.1	1.18	3.8	<0.02	<1	<0.1	0.3	<10	<2	1.12	15.76	8.04	21.2	885	3.5	4.3
541932	Soil	0.14	2.4	0.2	<0.05	<0.1	0.91	3.5	<0.02	1	<0.1	0.1	33	<2	0.76	6.84	8.24	10.1	604	1.4	0.9
541933	Soil	0.26	4.6	0.3	<0.05	<0.1	0.68	2.8	<0.02	1	<0.1	0.3	<10	<2	0.74	6.30	7.45	34.8	213	1.9	2.1
541934	Soil	0.20	4.9	0.3	<0.05	<0.1	1.02	3.2	<0.02	3	<0.1	0.5	<10	<2	0.67	8.11	8.96	17.8	518	3.0	3.5
541935	Soil	0.38	7.9	0.2	<0.05	0.4	1.74	2.3	<0.02	1	<0.1	3.5	<10	3	1.23	23.20	3.55	41.3	118	11.7	9.1
541936	Soil	0.15	5.8	0.1	<0.05	<0.1	0.76	2.2	<0.02	3	<0.1	0.4	<10	<2	0.47	8.65	5.53	24.4	1860	2.1	1.5
541937	Soil	0.17	14.2	0.2	<0.05	<0.1	1.20	1.9	<0.02	1	<0.1	0.8	<10	<2	4.30	14.44	6.08	15.8	408	5.0	4.9
541938	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.	1.04	10.53	5.21	28.1	305	2.7	2.8
541939	Soil	0.15	4.8	0.2	<0.05	<0.1	0.74	3.0	<0.02	2	<0.1	0.3	<10	<2	0.53	9.29	8.46	26.0	587	3.1	1.5
541940	Soil	0.36	15.2	0.2	<0.05	0.2	1.73	3.1	<0.02	2	<0.1	0.6	<10	<2	6.86	97.87	9.34	31.6	845	3.6	5.1
541941	Soil	0.14	14.5	0.2	<0.05	<0.1	4.08	13.8	<0.02	2	0.1	1.2	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541943	Soil	0.14	13.2	0.2	<0.05	0.3	8.52	13.7	<0.02	<1	0.1	1.8	<10	<2	0.87	116.6	5.50	17.2	1094	7.7	27.2
541944	Soil	0.06	6.0	0.2	<0.05	0.2	0.22	0.9	<0.02	<1	<0.1	0.4	<10	3	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541945	Soil	0.20	7.8	0.3	<0.05	0.1	1.27	3.2	<0.02	<1	<0.1	0.8	<10	<2	1.12	11.19	9.33	22.4	750	4.1	4.2
541946	Soil	0.06	6.3	0.2	<0.05	0.3	0.34	1.0	<0.02	<1	<0.1	0.3	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541947	Soil	<0.02	4.6	0.2	<0.05	<0.1	0.11	0.5	<0.02	1	<0.1	0.2	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541948	Soil	0.18	5.7	0.2	<0.05	<0.1	0.72	2.7	<0.02	2	<0.1	0.4	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541949	Soil	0.10	10.2	0.2	<0.05	<0.1	0.80	2.7	<0.02	<1	<0.1	0.7	<10	<2	1.05	12.21	7.99	52.8	434	3.0	2.2
1115044	Soil	0.24	15.2	0.2	<0.05	<0.1	0.63	1.6	<0.02	<1	<0.1	0.5	<10	<2	2.06	15.38	5.12	41.7	3891	2.5	2.0
1115045	Soil	0.18	12.9	0.1	<0.05	<0.1	20.77	8.1	<0.02	2	0.3	2.9	<10	<2	2.70	471.3	3.68	17.6	772	6.4	4.1
1115046	Soil	0.07	25.1	0.1	<0.05	<0.1	7.98	11.1	<0.02	<1	0.1	0.7	<10	<2	6.70	77.12	12.36	77.4	802	5.6	19.4

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 Report Date: September 30, 2011

Page: 4 of 11 Part 4

CERTIFICATE OF ANALYSIS

SMI11000351.1

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
541922	Soil	307	0.52	0.5	0.1	1.1	<0.1	21.0	0.27	0.09	0.14	14	0.16	0.050	3.8	5.7	0.08	152.6	0.006	<20	0.38
541923	Soil	387	0.16	0.1	0.5	3.0	<0.1	238.2	1.37	0.45	0.10	15	2.46	0.098	10.3	4.4	0.14	96.8	0.002	<20	0.14
541924	Soil	1110	1.18	1.0	1.9	3.8	0.3	269.2	2.03	0.56	0.24	24	2.84	0.115	52.1	13.5	0.31	174.6	0.010	<20	0.88
541925	Soil	613	0.14	0.3	0.6	3.3	0.1	238.7	1.34	0.26	0.12	6	2.30	0.102	15.7	4.5	0.14	100.5	0.002	<20	0.18
541926	Soil	191	1.28	0.7	2.6	11.6	0.2	83.9	0.39	0.22	0.19	26	0.82	0.107	11.2	10.8	0.27	117.4	0.007	<20	0.81
541927	Soil	58	0.19	0.4	0.3	4.0	<0.1	28.2	0.19	0.08	0.13	5	0.69	0.086	0.7	10.9	0.13	22.1	0.004	<20	0.10
541928	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.
541929	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.
541930	Soil	82	0.57	0.2	0.2	0.6	<0.1	30.1	0.30	0.08	0.08	18	0.37	0.054	1.4	5.8	0.05	182.3	0.005	<20	0.18
541931	Soil	1505	0.68	0.2	0.1	2.1	<0.1	38.2	0.44	0.09	0.09	23	0.23	0.038	2.1	9.3	0.06	455.4	0.022	<20	0.29
541932	Soil	44	0.35	<0.1	<0.1	0.6	<0.1	31.7	0.27	0.08	0.09	15	0.24	0.026	1.7	5.1	0.04	125.1	0.016	<20	0.22
541933	Soil	1401	0.74	0.4	0.1	0.6	<0.1	23.0	0.35	0.08	0.08	24	0.34	0.050	1.4	9.2	0.07	148.4	0.024	<20	0.22
541934	Soil	802	0.93	0.5	<0.1	3.4	<0.1	20.2	0.17	0.11	0.05	28	0.23	0.047	1.3	10.0	0.12	204.1	0.020	<20	0.32
541935	Soil	283	1.86	1.1	0.1	1.6	0.1	36.9	0.08	0.15	<0.02	72	0.55	0.047	1.2	40.4	0.74	66.8	0.104	<20	0.87
541936	Soil	149	0.50	0.3	<0.1	<0.2	<0.1	17.4	0.10	0.07	0.04	19	0.29	0.058	1.0	7.2	0.10	86.6	0.018	<20	0.20
541937	Soil	587	1.33	0.7	<0.1	6.2	<0.1	22.6	0.12	0.13	<0.02	38	0.34	0.057	0.9	15.4	0.19	114.9	0.037	<20	0.31
541938	Soil	203	1.22	0.1	<0.1	<0.2	<0.1	22.2	0.10	0.07	<0.02	32	0.49	0.060	<0.5	16.5	0.18	77.0	0.031	<20	0.20
541939	Soil	237	0.51	0.6	<0.1	0.9	<0.1	24.3	0.23	0.08	0.02	15	0.37	0.060	1.2	7.9	0.06	147.3	0.014	<20	0.21
541940	Soil	2342	0.87	0.8	<0.1	1.2	<0.1	57.4	0.45	0.14	0.03	24	1.23	0.076	1.4	7.9	0.11	132.3	0.029	<20	0.18
541941	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.
541943	Soil	340	1.11	0.7	0.2	<0.2	<0.1	61.6	0.32	0.16	0.77	23	1.23	0.128	5.4	9.7	0.20	149.0	0.006	<20	0.42
541944	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.
541945	Soil	542	0.93	0.6	<0.1	<0.2	<0.1	30.1	0.24	0.10	0.11	33	0.28	0.066	1.5	12.9	0.16	208.0	0.042	<20	0.38
541946	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.
541947	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.
541948	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.
541949	Soil	1184	0.48	0.7	<0.1	1.4	<0.1	20.8	0.41	0.08	0.10	13	0.34	0.112	1.2	5.5	0.14	130.2	0.005	<20	0.31
1115044	Soil	198	0.71	0.4	<0.1	0.9	<0.1	33.1	0.15	0.12	0.10	23	0.35	0.103	0.9	9.8	0.10	85.5	0.027	<20	0.17
1115045	Soil	1194	0.53	0.6	1.1	1.3	<0.1	203.9	0.72	0.41	0.13	19	2.06	0.088	11.2	6.6	0.17	148.3	0.006	<20	0.44
1115046	Soil	8492	0.47	1.0	0.1	<0.2	<0.1	102.2	1.29	0.20	0.07	20	1.02	0.169	5.0	4.4	0.13	287.3	0.008	<20	0.25

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 4 of 11 Part 5

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
541922	Soil			0.007	0.05	<0.1	0.2	0.03	0.03	65	0.2	<0.02	2.5	0.31	<0.1	<0.02	0.11	3.9	0.2	<0.05	<0.1	0.79	6.8
541923	Soil			0.015	0.05	0.1	0.3	0.07	0.19	119	0.5	<0.02	0.3	0.14	0.2	<0.02	0.05	3.5	<0.1	<0.05	0.4	11.70	3.3
541924	Soil			0.006	0.10	0.2	2.0	0.08	0.14	131	0.3	0.04	2.4	0.90	<0.1	<0.02	0.46	18.6	0.2	<0.05	0.5	41.63	12.8
541925	Soil			0.011	0.06	<0.1	0.4	0.06	0.21	162	0.4	<0.02	0.2	0.11	0.1	<0.02	0.05	3.5	<0.1	<0.05	0.3	16.19	2.0
541926	Soil			0.015	0.06	0.2	1.5	0.09	0.13	161	0.2	0.02	2.6	0.91	<0.1	<0.02	0.26	11.1	0.2	<0.05	0.2	9.54	16.0
541927	Soil			0.012	0.09	0.2	0.3	<0.02	0.16	64	0.3	<0.02	0.4	0.14	<0.1	<0.02	0.08	2.8	<0.1	<0.05	0.1	0.67	0.7
541928	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.
541929	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.
541930	Soil			0.009	0.05	<0.1	0.2	<0.02	0.05	92	0.1	<0.02	1.3	0.23	<0.1	<0.02	0.14	3.0	0.2	<0.05	<0.1	0.69	2.6
541931	Soil			0.007	0.04	<0.1	0.4	0.05	0.03	69	<0.1	<0.02	2.1	0.32	<0.1	<0.02	0.18	2.8	0.3	<0.05	<0.1	1.21	4.0
541932	Soil			0.006	0.03	<0.1	0.3	<0.02	0.02	54	<0.1	<0.02	1.6	0.20	<0.1	<0.02	0.14	2.4	0.2	<0.05	<0.1	0.84	3.2
541933	Soil			0.006	0.06	<0.1	0.4	0.03	0.04	72	0.1	<0.02	2.4	0.22	<0.1	<0.02	0.22	4.2	0.3	<0.05	<0.1	0.65	2.4
541934	Soil			0.008	0.06	<0.1	0.5	0.12	0.03	50	<0.1	<0.02	2.6	0.26	<0.1	<0.02	0.12	4.2	0.2	<0.05	<0.1	0.72	2.7
541935	Soil			0.008	0.13	0.4	1.5	0.17	0.06	147	0.2	<0.02	4.3	0.54	<0.1	<0.02	0.28	8.0	0.2	<0.05	0.1	1.29	1.9
541936	Soil			0.008	0.06	0.1	0.3	0.09	0.05	84	0.1	<0.02	1.7	0.45	<0.1	<0.02	0.13	5.2	0.2	<0.05	<0.1	0.57	1.8
541937	Soil			0.011	0.09	0.4	0.8	0.12	0.05	68	0.1	<0.02	2.3	1.00	<0.1	<0.02	0.16	12.7	0.2	<0.05	<0.1	1.00	1.7
541938	Soil			0.011	0.08	<0.1	0.7	0.09	0.06	109	0.2	<0.02	2.0	0.25	<0.1	<0.02	0.09	4.5	0.1	<0.05	<0.1	0.68	0.8
541939	Soil			0.008	0.06	0.1	0.4	0.09	0.06	106	0.1	<0.02	1.2	0.23	<0.1	<0.02	0.10	3.7	0.2	<0.05	<0.1	0.62	2.0
541940	Soil			0.004	0.09	0.4	0.9	0.13	0.08	97	0.3	<0.02	1.4	2.35	<0.1	<0.02	0.28	12.4	0.2	<0.05	<0.1	1.50	2.5
541941	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.
541943	Soil			0.008	0.08	0.1	0.4	<0.02	0.11	103	0.6	<0.02	1.1	1.05	<0.1	<0.02	0.12	10.1	0.2	<0.05	<0.1	7.88	12.7
541944	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.
541945	Soil			0.013	0.08	<0.1	0.3	0.02	0.04	72	0.3	<0.02	2.2	0.51	<0.1	<0.02	0.19	7.5	0.2	<0.05	<0.1	1.15	2.9
541946	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.
541947	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.
541948	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.
541949	Soil			0.011	0.11	<0.1	0.1	0.06	0.09	114	0.5	<0.02	1.5	0.32	<0.1	<0.02	0.09	9.8	0.2	<0.05	<0.1	0.64	2.2
1115044	Soil			0.006	0.10	0.1	0.3	0.04	0.09	131	0.3	0.04	1.4	0.76	<0.1	<0.02	0.31	13.7	0.2	<0.05	0.2	0.67	1.5
1115045	Soil			0.008	0.07	<0.1	0.3	0.17	0.13	138	1.1	0.03	1.2	1.27	<0.1	<0.02	0.15	9.6	0.1	<0.05	<0.1	18.46	7.5
1115046	Soil			0.004	0.14	<0.1	0.3	0.12	0.11	229	0.5	0.04	1.6	1.40	<0.1	<0.02	0.05	23.4	0.1	<0.05	<0.1	7.82	10.0

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 4 of 11 Part 6

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
				ppm	ppb	ppm	ppm	ppb	ppb
				0.02	1	0.1	0.1	10	2
541922	Soil			<0.02	<1	0.1	0.9	<10	<2
541923	Soil			<0.02	<1	0.2	0.3	<10	<2
541924	Soil			<0.02	<1	0.6	4.7	<10	<2
541925	Soil			<0.02	<1	0.2	0.3	<10	<2
541926	Soil			<0.02	<1	0.4	3.7	<10	<2
541927	Soil			<0.02	<1	<0.1	0.5	<10	<2
541928	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541929	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541930	Soil			<0.02	<1	<0.1	0.2	<10	<2
541931	Soil			<0.02	<1	<0.1	0.4	<10	<2
541932	Soil			<0.02	<1	<0.1	0.2	<10	<2
541933	Soil			<0.02	<1	<0.1	0.4	<10	<2
541934	Soil			<0.02	1	<0.1	0.6	<10	<2
541935	Soil			<0.02	2	<0.1	3.6	<10	3
541936	Soil			<0.02	2	<0.1	0.4	<10	<2
541937	Soil			<0.02	2	<0.1	0.9	<10	<2
541938	Soil			<0.02	2	<0.1	0.6	<10	<2
541939	Soil			<0.02	3	<0.1	0.3	<10	<2
541940	Soil			<0.02	1	<0.1	0.6	<10	<2
541941	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541943	Soil			0.02	<1	0.5	1.4	<10	<2
541944	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541945	Soil			<0.02	<1	<0.1	0.7	<10	<2
541946	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541947	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541948	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541949	Soil			<0.02	<1	0.2	0.4	<10	<2
1115044	Soil			<0.02	<1	<0.1	0.5	<10	<2
1115045	Soil			<0.02	<1	0.3	2.3	<10	<2
1115046	Soil			<0.02	<1	<0.1	0.5	<10	<2

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 5 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	%	%
				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
1115047	Soil			2.33	15.61	5.00	30.0	1408	2.1	1.2	387	0.13	<0.1	<0.1	9.2	<0.1	67.1	0.75	0.09	<0.02	<2	0.93	0.107
1115048	Soil			2.28	30.38	6.71	30.1	315	2.6	2.7	392	0.13	0.4	<0.1	0.9	<0.1	83.6	0.36	0.14	0.45	4	0.86	0.115
1115049	Soil			2.51	12.52	4.10	29.5	238	2.5	0.7	100	0.07	0.8	<0.1	1.9	<0.1	60.1	1.28	0.10	0.09	<2	0.69	0.095
1115050	Soil			2.11	10.11	3.99	48.1	304	3.6	0.8	1935	0.14	1.1	<0.1	<0.2	<0.1	27.7	0.18	0.07	0.24	<2	0.59	0.146
540921	Soil			0.76	8.19	8.35	39.4	149	3.1	2.4	441	0.31	0.5	<0.1	0.9	<0.1	18.5	0.14	0.18	0.04	8	0.59	0.136
540922	Soil			0.84	6.22	10.27	69.6	262	4.4	3.5	212	0.37	1.1	<0.1	0.7	<0.1	18.0	0.08	0.16	0.05	10	0.32	0.108
540923	Soil			1.58	47.94	5.40	27.0	259	7.0	10.2	1542	0.65	0.3	0.2	1.5	<0.1	69.1	1.23	0.29	0.04	14	2.60	0.174
540924	Soil			1.82	61.87	6.18	28.4	366	13.8	9.9	1385	1.33	0.9	0.4	2.8	0.1	67.1	0.66	0.23	0.09	34	2.31	0.147
540925	Soil			1.81	28.11	12.32	53.7	306	13.1	9.4	685	1.73	1.3	0.2	3.6	<0.1	60.5	0.30	0.19	0.13	50	1.18	0.087
540926	Soil			0.85	10.04	11.04	30.1	497	4.2	5.5	2466	0.28	<0.1	0.1	<0.2	<0.1	57.8	0.62	0.18	0.19	5	1.61	0.161
540927	Soil			0.82	8.99	8.10	33.2	769	2.8	1.6	395	0.15	0.8	<0.1	<0.2	<0.1	11.6	0.17	0.13	0.08	4	0.32	0.154
540928	Soil			0.80	6.51	9.78	44.8	374	3.9	2.4	394	0.27	0.4	<0.1	0.9	<0.1	17.5	0.12	0.09	0.05	6	0.26	0.142
540929	Soil			1.00	14.02	16.84	50.9	501	10.1	7.0	3093	1.09	0.8	<0.1	1.6	<0.1	39.9	0.81	0.17	0.09	29	1.20	0.144
540930	Soil			1.12	9.64	8.23	33.5	283	4.3	2.8	272	0.33	0.2	<0.1	0.8	<0.1	26.1	0.21	0.10	0.06	9	0.78	0.117
540931	Soil			0.73	13.76	11.03	103.7	523	9.7	9.3	2657	1.34	0.4	<0.1	1.7	<0.1	38.7	0.30	0.20	0.09	42	1.38	0.121
540932	Soil			1.29	20.35	10.70	38.0	152	8.1	6.1	1569	0.95	0.2	<0.1	1.0	<0.1	27.4	0.65	0.14	0.08	31	1.45	0.145
540933	Soil			1.99	19.75	11.15	31.1	233	8.8	7.0	808	1.09	0.8	<0.1	1.8	<0.1	21.8	0.25	0.16	0.08	29	0.78	0.071
540934	Soil			1.37	23.33	10.43	33.5	347	11.5	10.0	1275	1.59	2.0	<0.1	0.8	<0.1	25.2	0.61	0.15	0.10	48	0.79	0.083
540935	Soil			1.40	135.9	17.22	38.3	421	25.1	15.7	2589	2.44	1.9	0.4	1.1	0.2	42.4	0.81	0.24	0.19	91	1.70	0.067
540936	Soil			1.39	45.16	8.61	21.8	354	9.9	7.9	1123	1.64	0.8	0.2	2.9	<0.1	45.5	0.80	0.15	0.13	50	1.67	0.112
540937	Soil			1.60	74.30	5.39	11.8	475	4.9	4.5	1067	0.30	<0.1	0.8	3.3	<0.1	75.1	1.00	0.32	0.04	27	3.30	0.149
540938	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.
540939	Soil			0.49	8.75	7.00	52.8	1009	3.0	4.5	894	0.19	<0.1	<0.1	1.1	0.2	40.8	0.31	0.20	0.64	5	1.33	0.126
540940	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.
540941	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.
540942	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.
540943	Soil			1.49	22.62	4.91	13.8	499	4.7	5.1	143	0.81	0.1	0.1	<0.2	0.1	44.9	0.19	0.24	0.43	21	1.14	0.131
540944	Soil			1.65	21.74	10.49	24.7	392	6.5	6.0	1042	1.15	<0.1	<0.1	<0.2	<0.1	39.0	0.51	0.17	0.24	42	1.67	0.125
540945	Soil			1.92	53.71	10.67	27.8	433	8.0	14.8	599	0.97	0.1	<0.1	<0.2	<0.1	36.1	0.55	0.19	0.22	31	0.85	0.158
540946	Soil			0.59	14.20	7.79	38.8	819	3.8	7.1	2041	1.75	3.2	<0.1	1.1	<0.1	32.4	0.19	0.25	0.48	55	0.43	0.143

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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 5 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1115047	Soil	0.6	3.0	0.06	102.9	0.004	1	0.08	0.006	0.10	<0.1	0.3	0.03	0.15	280	0.4	<0.02	0.2	0.69	<0.1	<0.02
1115048	Soil	1.6	5.2	0.07	61.3	0.004	2	0.09	0.006	0.11	<0.1	0.5	0.06	0.14	183	0.5	0.03	0.3	0.57	<0.1	<0.02
1115049	Soil	<0.5	3.7	0.08	54.4	0.002	2	0.06	0.008	0.07	<0.1	0.3	0.06	0.16	156	0.3	0.10	0.2	0.18	<0.1	<0.02
1115050	Soil	<0.5	7.6	0.06	81.1	0.004	2	0.10	0.009	0.13	<0.1	0.4	0.08	0.13	187	0.4	0.04	0.3	0.24	<0.1	<0.02
540921	Soil	0.9	5.6	0.12	263.4	0.011	1	0.20	0.006	0.08	<0.1	0.5	0.15	0.15	400	0.3	<0.02	0.8	1.89	<0.1	<0.02
540922	Soil	1.8	7.9	0.12	201.7	0.010	1	0.29	0.006	0.07	<0.1	0.3	0.08	0.12	213	0.2	<0.02	1.3	0.80	<0.1	<0.02
540923	Soil	1.5	12.5	0.24	138.0	0.010	4	0.37	0.007	0.12	<0.1	0.8	0.09	0.33	110	1.3	<0.02	1.0	3.46	<0.1	<0.02
540924	Soil	2.5	28.2	0.48	133.4	0.016	2	0.81	0.006	0.12	0.1	1.4	0.09	0.26	153	1.3	<0.02	2.3	8.58	<0.1	<0.02
540925	Soil	2.5	34.3	0.69	117.0	0.034	1	1.09	0.005	0.08	0.1	1.5	0.06	0.12	142	0.2	<0.02	4.0	8.03	<0.1	<0.02
540926	Soil	1.4	6.0	0.16	210.0	0.008	2	0.28	0.006	0.10	<0.1	0.7	0.22	0.17	353	0.5	<0.02	0.7	1.99	<0.1	<0.02
540927	Soil	<0.5	4.2	0.08	92.1	0.006	1	0.09	0.006	0.15	0.1	0.5	0.10	0.14	282	0.4	0.05	0.3	2.24	<0.1	<0.02
540928	Soil	0.9	5.6	0.10	132.7	0.007	<1	0.22	0.006	0.10	<0.1	0.4	0.16	0.14	157	0.1	<0.02	1.0	3.09	<0.1	<0.02
540929	Soil	1.5	23.8	0.43	281.7	0.010	2	0.66	0.004	0.10	0.1	0.7	0.28	0.14	353	0.2	<0.02	2.4	4.94	<0.1	<0.02
540930	Soil	0.6	8.7	0.18	170.6	0.011	<1	0.22	0.004	0.08	0.1	0.5	0.06	0.15	194	0.2	<0.02	1.0	1.99	<0.1	<0.02
540931	Soil	1.0	25.0	0.43	491.8	0.026	2	0.64	0.004	0.11	0.2	0.8	0.12	0.12	277	0.2	<0.02	3.0	5.33	<0.1	<0.02
540932	Soil	0.9	22.1	0.37	221.3	0.016	2	0.46	0.004	0.12	<0.1	0.8	0.16	0.18	297	0.4	<0.02	1.8	4.96	<0.1	<0.02
540933	Soil	0.8	19.4	0.49	186.1	0.041	<1	0.65	0.003	0.07	0.1	0.9	0.08	0.12	156	0.3	<0.02	1.9	4.89	<0.1	<0.02
540934	Soil	0.8	29.4	0.80	263.3	0.053	1	0.89	0.002	0.07	0.2	1.2	0.06	0.11	169	0.1	<0.02	2.8	5.19	<0.1	<0.02
540935	Soil	2.6	74.8	1.38	95.0	0.063	2	1.66	<0.001	0.07	0.2	3.7	0.07	0.08	134	0.4	<0.02	5.7	7.10	<0.1	<0.02
540936	Soil	1.8	43.1	0.43	72.7	0.021	1	0.66	0.003	0.07	0.1	1.1	0.08	0.15	130	0.4	<0.02	2.8	12.62	<0.1	<0.02
540937	Soil	1.0	12.7	0.12	159.1	0.007	5	0.17	0.007	0.07	<0.1	0.5	0.09	0.30	167	4.2	<0.02	1.2	1.89	0.2	0.02
540938	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.
540939	Soil	0.6	4.1	0.09	227.3	0.005	4	0.10	0.007	0.09	<0.1	0.7	0.10	0.19	484	0.3	<0.02	0.4	0.74	<0.1	0.02
540940	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.
540941	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.
540942	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.
540943	Soil	2.3	9.8	0.19	68.7	0.013	2	0.39	0.004	0.06	0.2	1.3	0.04	0.19	215	0.8	0.04	1.1	6.30	<0.1	<0.02
540944	Soil	0.8	22.0	0.34	117.6	0.027	3	0.38	0.004	0.09	0.3	0.9	0.14	0.13	250	0.5	<0.02	1.8	5.90	<0.1	<0.02
540945	Soil	1.7	12.2	0.29	76.5	0.018	2	0.45	0.006	0.10	0.3	0.8	0.05	0.13	128	0.2	<0.02	1.6	8.38	0.1	<0.02
540946	Soil	1.7	17.7	0.22	272.4	0.029	1	0.41	0.006	0.11	0.1	0.8	0.08	0.07	143	0.2	0.03	2.4	5.07	<0.1	<0.02

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



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 5 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	
1115047	Soil	0.04	11.0	0.1	<0.05	0.2	0.55	0.9	<0.02	<1	<0.1	0.3	<10	<2	1.89	14.58	4.31	24.9	1187	1.7	1.2
1115048	Soil	0.05	10.1	0.1	<0.05	0.3	1.64	2.3	<0.02	<1	<0.1	0.4	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1115049	Soil	0.03	4.5	<0.1	<0.05	0.1	0.14	0.4	<0.02	<1	<0.1	0.3	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1115050	Soil	0.05	9.8	<0.1	<0.05	<0.1	0.30	0.8	<0.02	3	<0.1	0.3	<10	<2	1.64	8.47	3.21	39.2	282	3.1	0.8
540921	Soil	0.12	12.6	0.2	<0.05	0.1	0.41	1.6	<0.02	<1	<0.1	0.7	<10	<2	0.57	7.82	7.34	33.0	127	3.2	2.3
540922	Soil	0.16	7.2	0.2	<0.05	<0.1	0.55	3.3	<0.02	<1	<0.1	1.3	<10	<2	0.74	6.63	9.61	69.6	296	4.1	3.8
540923	Soil	0.17	11.6	0.1	<0.05	0.6	1.90	2.5	<0.02	<1	0.1	2.3	<10	<2	1.10	44.55	4.40	24.1	225	6.6	10.2
540924	Soil	0.30	15.1	0.1	<0.05	0.5	3.81	4.1	<0.02	<1	0.1	5.6	<10	<2	1.50	57.98	4.80	26.0	323	14.0	9.5
540925	Soil	0.67	20.4	0.3	<0.05	0.2	1.79	4.6	<0.02	<1	<0.1	12.8	<10	<2	1.48	24.75	9.90	42.6	250	11.3	8.8
540926	Soil	0.12	8.8	0.1	<0.05	0.1	1.25	3.1	<0.02	<1	<0.1	1.4	<10	<2	0.62	8.77	8.68	25.9	402	3.9	5.3
540927	Soil	0.04	12.1	0.1	<0.05	<0.1	0.16	0.8	<0.02	3	<0.1	0.3	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540928	Soil	0.08	11.3	0.2	<0.05	<0.1	0.32	1.6	<0.02	2	<0.1	0.5	<10	<2	0.75	6.85	8.62	47.9	341	5.0	2.4
540929	Soil	0.22	17.5	0.2	<0.05	<0.1	1.20	3.5	<0.02	<1	<0.1	5.5	<10	<2	0.70	13.01	13.39	42.9	399	9.2	6.4
540930	Soil	0.15	10.5	0.1	<0.05	0.2	0.33	1.2	<0.02	<1	<0.1	1.1	<10	<2	0.98	8.76	6.47	31.0	250	4.1	2.6
540931	Soil	0.22	14.1	0.2	<0.05	<0.1	0.62	1.9	<0.02	<1	<0.1	3.3	<10	<2	0.54	11.65	8.38	87.1	452	8.3	8.6
540932	Soil	0.17	14.0	0.2	<0.05	<0.1	0.81	1.9	<0.02	<1	<0.1	3.8	<10	<2	0.92	17.18	8.04	29.9	103	7.2	5.7
540933	Soil	0.22	13.2	0.2	<0.05	0.2	0.69	1.7	<0.02	<1	<0.1	2.8	<10	<2	1.57	17.08	8.59	26.3	189	8.2	5.6
540934	Soil	0.25	15.2	0.2	<0.05	<0.1	0.65	1.6	<0.02	<1	<0.1	4.5	<10	<2	0.88	19.87	7.60	28.8	274	10.7	8.3
540935	Soil	0.33	8.8	0.3	<0.05	0.1	2.54	5.1	<0.02	<1	0.2	14.3	<10	<2	1.11	121.3	14.16	33.7	380	23.5	14.0
540936	Soil	0.37	17.7	0.2	<0.05	0.1	1.86	3.5	<0.02	<1	0.2	6.7	<10	<2	1.10	42.14	6.59	18.8	304	10.1	7.6
540937	Soil	0.10	5.2	0.1	<0.05	0.4	1.58	1.5	<0.02	<1	<0.1	1.0	12	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540938	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.	1.37	76.32	2.44	34.5	255	24.0	12.7
540939	Soil	0.09	4.8	1.3	<0.05	0.8	0.51	1.1	<0.02	3	<0.1	0.2	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540940	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.	0.48	29.50	3.89	18.8	853	7.7	16.0
540941	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	42.07	5.91	11.6	545	4.9	17.8
540942	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.	0.40	5.03	4.93	51.7	487	2.0	1.2
540943	Soil	0.24	10.1	0.8	<0.05	0.3	2.26	5.0	<0.02	1	0.1	2.5	<10	<2	1.72	24.74	5.10	13.8	488	5.0	5.3
540944	Soil	0.21	8.8	0.6	<0.05	0.2	0.55	1.6	<0.02	<1	<0.1	4.1	<10	<2	1.71	22.33	10.76	24.3	398	6.3	5.7
540945	Soil	0.39	11.5	0.5	<0.05	0.2	1.33	4.0	<0.02	<1	<0.1	3.3	<10	<2	1.88	53.69	10.69	28.3	421	7.6	13.4
540946	Soil	0.11	14.3	0.4	<0.05	<0.1	0.76	3.7	<0.02	<1	<0.1	2.0	<10	<2	0.66	14.88	8.85	41.0	782	3.9	7.1

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 5 of 11 Part 4

CERTIFICATE OF ANALYSIS

SMI11000351.1

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
1115047	Soil	369	0.12	0.6	<0.1	<0.2	<0.1	67.5	0.66	0.06	0.07	3	0.93	0.101	<0.5	3.4	0.06	99.1	0.004	<20	0.08
1115048	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.
1115049	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.
1115050	Soil	1665	0.12	0.3	<0.1	0.7	<0.1	28.8	0.17	0.08	0.10	2	0.52	0.132	<0.5	6.8	0.06	74.9	0.004	<20	0.10
540921	Soil	386	0.31	0.9	<0.1	<0.2	<0.1	19.2	0.15	0.17	0.07	8	0.57	0.118	0.8	5.9	0.13	234.0	0.010	<20	0.19
540922	Soil	225	0.35	0.7	<0.1	0.2	<0.1	21.0	0.11	0.14	0.10	10	0.36	0.111	1.5	8.7	0.14	215.0	0.006	<20	0.33
540923	Soil	1511	0.57	0.5	0.2	0.3	<0.1	69.9	1.13	0.25	0.05	13	2.51	0.155	1.2	11.5	0.24	130.6	0.007	<20	0.35
540924	Soil	1313	1.25	1.4	0.3	1.5	<0.1	67.3	0.65	0.21	0.07	35	2.26	0.139	2.0	25.5	0.52	116.3	0.018	<20	0.83
540925	Soil	645	1.57	0.9	0.1	0.8	<0.1	60.4	0.25	0.15	0.10	48	1.12	0.082	1.8	28.5	0.61	101.1	0.036	<20	0.97
540926	Soil	2482	0.27	0.7	<0.1	0.6	<0.1	55.0	0.59	0.17	0.08	7	1.54	0.141	1.1	5.9	0.16	186.6	0.005	<20	0.26
540927	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.
540928	Soil	416	0.23	0.2	<0.1	<0.2	<0.1	18.9	0.16	0.08	0.08	7	0.31	0.143	0.8	8.1	0.14	133.8	0.003	<20	0.27
540929	Soil	2983	0.99	0.8	<0.1	<0.2	<0.1	41.5	0.70	0.15	0.09	30	1.13	0.135	1.3	22.2	0.50	243.5	0.011	<20	0.65
540930	Soil	252	0.33	0.8	<0.1	<0.2	<0.1	25.3	0.22	0.11	0.06	10	0.79	0.110	0.6	8.7	0.20	151.6	0.011	<20	0.23
540931	Soil	2555	1.18	0.5	<0.1	1.1	<0.1	37.9	0.26	0.14	0.09	41	1.32	0.110	0.7	22.2	0.49	396.7	0.027	<20	0.61
540932	Soil	1439	0.85	0.8	<0.1	<0.2	<0.1	25.0	0.49	0.12	0.09	29	1.31	0.123	0.7	20.3	0.39	176.1	0.015	<20	0.43
540933	Soil	742	0.96	0.7	<0.1	0.2	<0.1	21.4	0.22	0.10	0.07	27	0.72	0.067	0.6	15.7	0.48	164.5	0.038	<20	0.58
540934	Soil	1235	1.43	1.4	<0.1	<0.2	<0.1	24.3	0.51	0.11	0.05	47	0.72	0.075	0.6	22.9	0.70	227.6	0.052	<20	0.80
540935	Soil	2361	2.19	1.0	0.3	1.1	0.1	44.1	0.77	0.16	0.13	87	1.59	0.062	2.1	63.4	1.20	87.6	0.063	<20	1.46
540936	Soil	1167	1.60	0.6	0.2	0.5	<0.1	48.6	0.76	0.12	0.11	53	1.71	0.105	1.4	38.4	0.48	67.3	0.023	<20	0.70
540937	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.
540938	Soil	1633	2.47	0.7	0.6	3.9	<0.1	108.7	0.35	0.18	0.11	86	2.42	0.147	0.9	97.3	1.01	185.9	0.053	<20	1.00
540939	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.
540940	Soil	1446	1.03	0.8	0.2	<0.2	<0.1	45.4	0.65	0.24	0.07	18	1.09	0.152	2.9	13.2	0.17	237.7	0.003	<20	0.47
540941	Soil	1459	0.50	0.6	<0.1	<0.2	<0.1	73.2	0.52	0.19	0.05	14	2.80	0.118	1.1	11.2	0.14	286.5	0.003	<20	0.30
540942	Soil	2551	0.15	0.3	<0.1	0.8	<0.1	14.8	0.12	0.11	0.05	4	0.56	0.110	<0.5	4.5	0.08	76.3	0.003	<20	0.09
540943	Soil	155	0.78	0.8	0.1	2.2	<0.1	50.7	0.27	0.24	0.22	21	1.25	0.141	2.4	9.6	0.19	77.6	0.013	<20	0.41
540944	Soil	1095	1.05	0.5	<0.1	1.0	<0.1	45.7	0.55	0.19	0.15	40	1.71	0.139	0.8	19.5	0.33	125.9	0.027	<20	0.42
540945	Soil	583	0.88	0.7	<0.1	1.4	<0.1	40.7	0.54	0.18	0.15	30	0.85	0.162	1.7	10.6	0.28	80.2	0.018	<20	0.45
540946	Soil	2011	1.63	0.6	<0.1	1.9	<0.1	45.6	0.24	0.18	0.15	54	0.48	0.168	1.7	15.8	0.22	298.7	0.033	<20	0.46

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Page: 5 of 11 Part 5

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
1115047	Soil			0.006	0.09	<0.1	0.3	0.03	0.14	220	0.2	<0.02	0.3	0.58	<0.1	<0.02	0.04	10.0	0.1	<0.05	0.1	0.45	0.7
1115048	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.
1115049	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.
1115050	Soil			0.008	0.12	<0.1	0.2	0.04	0.12	156	0.2	<0.02	0.3	0.23	<0.1	<0.02	0.05	8.7	<0.1	<0.05	<0.1	0.29	0.8
540921	Soil			0.005	0.08	<0.1	0.3	0.11	0.14	303	0.3	<0.02	0.8	1.61	<0.1	<0.02	0.11	10.8	0.2	<0.05	<0.1	0.36	1.2
540922	Soil			0.007	0.06	<0.1	0.2	0.07	0.12	211	0.3	<0.02	1.2	0.70	<0.1	<0.02	0.14	6.4	0.2	<0.05	<0.1	0.50	2.9
540923	Soil			0.007	0.11	<0.1	0.6	0.07	0.31	93	1.5	<0.02	1.0	2.69	<0.1	<0.02	0.15	9.8	<0.1	<0.05	0.3	1.59	1.9
540924	Soil			0.008	0.12	<0.1	1.4	0.06	0.23	103	1.8	<0.02	2.2	7.54	<0.1	0.02	0.25	13.9	0.1	<0.05	0.4	3.54	3.7
540925	Soil			0.007	0.08	0.1	1.3	0.04	0.12	101	0.7	<0.02	3.5	6.58	<0.1	<0.02	0.52	17.5	0.3	<0.05	0.2	1.56	3.4
540926	Soil			0.006	0.10	<0.1	0.3	0.17	0.15	233	0.7	<0.02	0.7	1.48	<0.1	<0.02	0.09	7.3	0.1	<0.05	<0.1	1.08	2.7
540927	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.
540928	Soil			0.006	0.09	<0.1	0.1	0.12	0.12	145	0.3	<0.02	1.0	2.78	<0.1	<0.02	0.09	10.5	0.1	<0.05	<0.1	0.31	1.4
540929	Soil			0.006	0.09	<0.1	0.7	0.22	0.13	312	0.7	<0.02	2.4	4.41	<0.1	<0.02	0.15	16.6	0.2	<0.05	<0.1	1.07	2.9
540930	Soil			0.005	0.08	<0.1	0.5	0.04	0.15	138	0.2	<0.02	0.9	1.76	<0.1	<0.02	0.15	9.1	0.1	<0.05	<0.1	0.29	1.0
540931	Soil			0.006	0.11	0.1	0.7	0.10	0.11	197	0.5	0.02	2.6	4.40	<0.1	<0.02	0.16	11.7	0.2	<0.05	<0.1	0.59	1.6
540932	Soil			0.005	0.11	<0.1	0.7	0.11	0.16	213	0.5	<0.02	1.6	3.91	<0.1	<0.02	0.13	10.8	0.2	<0.05	<0.1	0.69	1.4
540933	Soil			0.005	0.07	<0.1	0.6	0.05	0.11	110	0.4	<0.02	1.7	3.91	<0.1	<0.02	0.17	11.1	0.2	<0.05	0.1	0.53	1.1
540934	Soil			0.004	0.07	0.1	0.9	0.04	0.10	128	0.1	<0.02	2.6	4.17	<0.1	<0.02	0.16	12.7	0.1	<0.05	<0.1	0.55	1.1
540935	Soil			0.005	0.06	0.1	2.9	0.04	0.08	106	0.6	0.02	5.0	5.90	<0.1	<0.02	0.23	8.1	0.2	<0.05	0.1	2.33	4.2
540936	Soil			0.005	0.08	<0.1	1.1	0.04	0.16	104	0.8	<0.02	2.8	10.88	<0.1	<0.02	0.27	15.3	0.2	<0.05	0.1	1.67	2.8
540937	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.
540938	Soil			0.012	0.29	0.1	1.2	0.12	0.31	79	4.0	0.02	3.7	5.25	0.1	<0.02	0.10	18.7	<0.1	<0.05	<0.1	2.00	1.4
540939	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.
540940	Soil			0.008	0.08	<0.1	0.6	0.05	0.14	241	0.6	0.03	1.0	2.88	<0.1	<0.02	0.07	10.3	<0.1	<0.05	<0.1	4.39	5.3
540941	Soil			0.007	0.08	0.1	0.3	0.05	0.21	127	0.8	<0.02	0.7	1.67	<0.1	<0.02	0.06	5.1	<0.1	<0.05	<0.1	1.77	2.3
540942	Soil			0.007	0.10	<0.1	0.2	0.25	0.12	290	0.5	<0.02	0.4	0.90	<0.1	<0.02	0.03	6.0	0.1	<0.05	<0.1	0.18	0.6
540943	Soil			0.004	0.06	0.3	0.7	0.05	0.18	177	0.7	<0.02	1.3	6.13	<0.1	<0.02	0.22	10.3	0.2	<0.05	<0.1	2.30	5.0
540944	Soil			0.005	0.09	0.2	0.9	0.14	0.13	197	0.2	<0.02	1.8	5.70	<0.1	<0.02	0.21	8.5	0.2	<0.05	<0.1	0.53	1.4
540945	Soil			0.005	0.09	0.2	0.5	0.06	0.12	133	0.3	<0.02	1.7	7.26	<0.1	<0.02	0.36	10.5	0.3	<0.05	<0.1	1.40	3.4
540946	Soil			0.006	0.10	<0.1	0.6	0.09	0.07	140	<0.1	0.02	2.7	4.80	<0.1	<0.02	0.12	13.6	0.3	<0.05	<0.1	0.89	3.5

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Project: Aug 12, 2011 Shipment
Report Date: September 30, 2011

Page: 5 of 11 Part 6

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	1	0.1	0.1	10	2
1115047	Soil	<0.02	3	<0.1	<0.1	<10	<2
1115048	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1115049	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1115050	Soil	<0.02	<1	<0.1	<0.1	<10	<2
540921	Soil	<0.02	<1	<0.1	0.7	<10	2
540922	Soil	<0.02	1	0.3	1.0	<10	<2
540923	Soil	<0.02	<1	0.2	2.4	<10	<2
540924	Soil	<0.02	<1	0.5	5.9	<10	<2
540925	Soil	<0.02	<1	<0.1	10.8	<10	<2
540926	Soil	<0.02	<1	0.2	1.2	<10	<2
540927	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540928	Soil	<0.02	<1	<0.1	0.5	<10	<2
540929	Soil	<0.02	<1	<0.1	4.6	<10	<2
540930	Soil	<0.02	<1	0.1	0.8	<10	<2
540931	Soil	<0.02	<1	0.1	3.2	<10	<2
540932	Soil	<0.02	7	0.1	3.4	<10	<2
540933	Soil	<0.02	<1	<0.1	2.1	<10	<2
540934	Soil	<0.02	<1	<0.1	3.8	<10	<2
540935	Soil	<0.02	<1	0.2	11.4	<10	<2
540936	Soil	<0.02	2	0.2	6.5	<10	<2
540937	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540938	Soil	<0.02	1	<0.1	9.8	14	<2
540939	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540940	Soil	<0.02	<1	0.1	1.0	<10	<2
540941	Soil	<0.02	4	<0.1	0.9	11	<2
540942	Soil	<0.02	1	<0.1	0.2	<10	<2
540943	Soil	<0.02	<1	0.1	2.7	<10	<2
540944	Soil	<0.02	<1	<0.1	4.2	<10	<2
540945	Soil	<0.02	2	<0.1	3.8	<10	<2
540946	Soil	<0.02	<1	<0.1	2.5	<10	6



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Page: 6 of 11 Part 1

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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	%	%
540947	Soil			0.39	7.99	6.39	270.7	56	3.0	2.5	>10000	0.15	0.1	<0.1	<0.2	<0.1	30.8	0.18	0.10	0.18	4	1.45	0.165
540948	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.
540950	Soil			1.35	14.38	9.38	25.8	303	4.9	6.2	228	0.65	0.5	<0.1	0.2	<0.1	34.9	0.72	0.13	0.25	20	0.67	0.110
541951	Soil			0.60	7.14	7.32	51.5	622	3.3	3.2	1384	0.67	<0.1	<0.1	<0.2	<0.1	32.3	0.34	0.10	0.13	25	0.85	0.142
541952	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.
541953	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.
541954	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.
541955	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.
541956	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.
541957	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.
1115067	Soil			0.77	22.32	8.52	50.0	811	9.9	11.5	443	2.74	3.7	<0.1	160.6	<0.1	6.7	0.12	0.43	0.19	105	0.20	0.089
1115068	Soil			3.06	151.5	7.07	88.8	351	34.5	23.6	2276	2.97	3.9	0.3	1.2	0.2	26.5	1.00	0.17	0.21	79	1.15	0.057
1115069	Soil			2.67	34.13	11.32	46.7	847	21.7	16.8	2088	2.40	3.6	<0.1	0.6	0.1	22.8	0.50	0.18	0.14	85	0.67	0.066
1115070	Soil			2.34	23.69	7.53	41.1	279	29.8	16.6	343	3.05	2.8	0.1	2.9	0.2	11.2	0.13	0.12	0.10	128	0.27	0.051
1115071	Soil			1.80	31.74	5.98	33.7	307	14.3	10.9	461	2.05	3.0	<0.1	0.8	0.1	19.4	0.26	0.16	0.10	77	0.67	0.068
1115072	Soil			0.97	10.67	6.06	24.3	280	8.2	6.5	186	1.60	2.3	<0.1	2.5	<0.1	25.4	0.18	0.15	0.14	54	0.74	0.078
1115073	Soil			1.00	177.7	3.55	66.5	694	25.2	19.7	837	3.88	3.3	0.7	3.8	0.2	44.5	0.37	0.15	0.10	134	1.45	0.149
1115074	Soil			0.43	14.64	7.26	31.7	620	6.6	6.0	230	1.92	3.0	<0.1	3.0	<0.1	32.0	0.19	0.19	0.23	73	0.33	0.054
1115075	Soil			0.31	12.88	6.28	21.7	200	6.8	5.4	526	1.37	3.1	<0.1	4.6	<0.1	38.8	0.22	0.15	0.20	52	0.34	0.044
1115076	Soil			0.21	15.12	8.01	25.9	421	5.2	4.0	130	1.18	3.1	<0.1	1.5	<0.1	32.3	0.18	0.14	0.33	48	0.24	0.043
1115077	Soil			0.52	19.33	5.68	49.7	196	8.9	17.5	3478	2.91	2.5	<0.1	2.0	<0.1	39.0	0.30	0.18	0.47	103	0.33	0.051
1115078	Soil			0.51	12.05	5.74	21.9	224	6.4	8.3	136	2.29	2.7	<0.1	16.7	<0.1	41.3	0.11	0.18	0.35	84	0.39	0.041
1115079	Soil			1.30	133.4	3.96	44.5	1655	23.1	17.8	758	3.37	2.8	0.4	2.2	0.1	74.7	0.46	0.17	0.30	143	1.71	0.107
1115080	Soil			1.44	163.3	6.15	33.6	1033	26.4	14.7	1024	2.23	1.0	0.5	4.2	<0.1	82.7	0.86	0.36	0.14	90	2.51	0.138
1115081	Soil			0.25	23.66	6.78	163.3	409	9.0	13.1	>10000	2.68	1.1	<0.1	13.6	<0.1	42.9	0.26	0.17	0.22	99	0.57	0.055
1115082	Soil			0.32	35.51	5.31	12.5	581	5.7	3.5	98	1.13	3.1	0.1	2.5	<0.1	30.1	0.26	0.08	0.22	34	0.25	0.126
1115083	Soil			0.54	41.32	4.19	23.9	720	10.4	10.5	846	1.89	1.6	0.1	1.5	<0.1	69.6	0.82	0.18	0.22	62	1.71	0.095
1115084	Soil			0.29	13.68	6.76	18.4	958	4.8	3.9	171	0.91	0.3	<0.1	10.5	<0.1	35.4	0.33	0.14	0.58	35	0.21	0.045
1115085	Soil			0.24	7.52	7.91	19.2	698	3.0	2.5	176	0.65	0.6	<0.1	6.4	<0.1	38.5	0.19	0.14	0.29	32	0.27	0.034
1115087	Soil			0.21	12.51	5.82	16.8	349	9.1	5.1	96	0.74	0.3	<0.1	4.0	<0.1	33.8	0.27	0.08	0.59	23	0.23	0.068

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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 6 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	0.1	
540947	Soil	<0.5	4.3	0.09	348.7	0.006	4	0.11	0.005	0.12	<0.1	0.6	0.62	0.12	244	0.3	0.02	0.4	5.29	<0.1	<0.02
540948	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.
540950	Soil	1.0	9.6	0.21	157.4	0.021	1	0.33	0.006	0.08	0.1	0.6	0.08	0.12	166	0.3	<0.02	1.3	7.61	<0.1	<0.02
541951	Soil	0.6	5.8	0.22	155.8	0.017	2	0.22	0.007	0.11	<0.1	0.7	0.11	0.13	170	0.4	<0.02	1.1	4.19	<0.1	<0.02
541952	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.
541953	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.
541954	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.
541955	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.
541956	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.
541957	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.
1115067	Soil	2.4	40.2	0.89	93.5	0.049	<1	1.16	0.004	0.08	0.1	3.7	0.11	0.07	113	0.2	0.09	6.6	3.84	<0.1	<0.02
1115068	Soil	4.2	68.9	1.34	58.2	0.073	1	2.44	0.006	0.06	<0.1	3.9	0.11	0.05	70	0.5	0.02	5.3	27.16	<0.1	<0.02
1115069	Soil	2.0	55.4	1.21	101.8	0.093	1	1.59	0.006	0.07	0.1	3.1	0.16	0.06	130	0.2	0.05	5.5	10.94	<0.1	<0.02
1115070	Soil	1.7	108.0	1.69	70.0	0.107	<1	1.93	0.003	0.05	0.1	6.8	0.04	0.05	101	0.2	0.03	7.3	5.39	<0.1	<0.02
1115071	Soil	0.9	52.0	0.77	191.0	0.088	<1	1.03	0.006	0.06	0.3	2.3	0.06	0.09	250	0.2	<0.02	4.1	8.20	<0.1	<0.02
1115072	Soil	1.2	38.8	0.41	111.4	0.048	<1	0.56	0.005	0.06	0.2	1.2	0.04	0.09	162	0.1	0.04	3.1	3.86	<0.1	<0.02
1115073	Soil	4.1	108.7	1.71	156.1	0.078	<1	2.38	0.001	0.17	0.2	6.7	0.12	0.11	41	1.0	0.02	6.4	29.32	<0.1	<0.02
1115074	Soil	2.0	32.7	0.36	132.6	0.084	<1	0.67	0.002	0.04	0.1	1.5	0.03	0.03	45	0.1	<0.02	3.7	1.97	<0.1	<0.02
1115075	Soil	2.3	27.6	0.24	171.5	0.071	<1	0.54	0.003	0.04	0.1	1.0	0.04	0.03	39	<0.1	<0.02	3.3	1.69	<0.1	<0.02
1115076	Soil	3.0	21.9	0.20	150.5	0.025	<1	0.63	0.004	0.03	<0.1	0.5	0.03	0.02	33	<0.1	<0.02	3.3	1.20	<0.1	<0.02
1115077	Soil	2.7	30.5	0.62	304.4	0.084	<1	0.94	0.002	0.04	0.2	2.6	0.14	0.03	51	0.1	0.09	4.5	3.59	<0.1	<0.02
1115078	Soil	2.6	24.4	0.57	106.4	0.080	<1	0.86	0.002	0.04	0.1	2.2	<0.02	0.03	36	0.2	0.04	4.2	1.44	<0.1	<0.02
1115079	Soil	3.2	113.3	1.17	164.0	0.051	1	1.71	0.002	0.06	0.2	4.0	0.05	0.11	81	0.7	0.05	5.9	9.73	<0.1	<0.02
1115080	Soil	2.1	104.7	1.00	184.4	0.045	2	1.18	0.004	0.07	0.2	2.6	0.16	0.21	113	2.1	0.03	4.2	5.78	<0.1	<0.02
1115081	Soil	2.3	25.3	0.48	714.3	0.064	<1	0.85	0.002	0.04	<0.1	1.6	0.68	0.04	88	<0.1	0.02	4.5	3.56	<0.1	<0.02
1115082	Soil	4.5	19.7	0.21	148.9	0.003	<1	0.93	0.005	0.03	<0.1	0.2	0.03	0.06	91	<0.1	0.02	3.4	1.35	<0.1	<0.02
1115083	Soil	3.0	26.1	0.56	75.4	0.018	<1	1.00	0.004	0.04	0.2	1.2	0.03	0.10	62	0.2	0.03	3.4	1.10	<0.1	<0.02
1115084	Soil	3.3	13.4	0.15	164.9	0.033	<1	0.56	0.003	0.02	<0.1	0.5	0.05	0.02	44	0.2	<0.02	3.7	0.95	<0.1	<0.02
1115085	Soil	2.5	9.8	0.10	153.8	0.052	<1	0.32	0.004	0.02	<0.1	0.8	0.03	0.03	45	0.1	<0.02	2.5	0.88	<0.1	<0.02
1115087	Soil	2.8	21.2	0.20	162.9	0.007	<1	0.54	0.004	0.04	<0.1	0.2	0.04	0.04	48	0.2	<0.02	3.2	0.79	<0.1	<0.02

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



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 6 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	MDL	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
540947	Soil	0.04	16.7	0.2	<0.05	<0.1	0.19	0.7	<0.02	<1	<0.1	0.4	<10	<2	0.67	8.47	6.55	261.5	55	3.2	2.4
540948	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.	0.65	10.53	12.24	43.3	85	4.3	5.2
540950	Soil	0.19	11.2	0.4	<0.05	<0.1	0.45	1.8	<0.02	1	<0.1	2.3	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541951	Soil	0.09	13.5	0.3	<0.05	<0.1	0.28	1.1	<0.02	<1	<0.1	1.6	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541952	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.	1.06	12.93	11.36	55.6	141	7.2	3.4
541953	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.	0.83	7.83	6.64	57.1	243	2.0	2.8
541954	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.	0.49	6.31	6.62	26.1	255	2.6	2.3
541955	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.	0.66	5.83	5.66	31.3	183	4.6	1.8
541956	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.	0.83	6.54	11.44	50.6	314	2.7	2.2
541957	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.	1.67	8.68	9.21	53.0	883	4.5	6.2
1115067	Soil	0.46	7.8	0.3	<0.05	<0.1	0.55	4.9	<0.02	<1	<0.1	13.8	<10	<2	0.83	21.30	8.68	49.7	826	9.6	9.9
1115068	Soil	0.98	10.2	0.4	<0.05	0.1	6.11	7.8	<0.02	<1	0.4	32.6	<10	5	2.88	149.6	6.99	84.9	321	32.4	21.7
1115069	Soil	0.55	9.3	0.3	<0.05	<0.1	2.50	4.6	<0.02	<1	0.1	13.0	<10	<2	2.59	35.25	12.41	44.9	897	20.6	16.8
1115070	Soil	0.54	7.5	0.3	<0.05	<0.1	1.76	4.0	<0.02	<1	0.1	14.9	<10	<2	2.26	24.88	7.49	41.0	261	29.6	16.5
1115071	Soil	0.51	9.1	0.2	<0.05	0.2	0.85	2.0	<0.02	<1	<0.1	9.9	<10	<2	1.72	32.64	6.10	31.8	320	13.5	9.9
1115072	Soil	0.49	5.7	0.2	<0.05	0.2	0.76	2.6	<0.02	<1	<0.1	3.9	<10	<2	1.01	10.66	6.12	23.9	253	7.6	6.2
1115073	Soil	0.48	27.7	0.1	<0.05	0.2	9.20	5.9	<0.02	<1	0.4	21.3	<10	2	0.98	178.5	3.58	63.4	634	23.9	17.4
1115074	Soil	0.30	6.1	0.3	<0.05	0.1	1.47	4.4	<0.02	<1	<0.1	4.3	<10	3	0.38	15.56	8.03	31.8	593	6.7	6.0
1115075	Soil	0.27	8.5	0.3	<0.05	<0.1	1.65	4.9	<0.02	<1	<0.1	2.3	<10	<2	0.28	12.51	6.70	21.5	198	6.7	5.0
1115076	Soil	0.15	3.8	0.3	<0.05	<0.1	1.52	6.3	<0.02	<1	<0.1	2.2	<10	3	0.20	15.78	8.56	26.8	406	4.8	3.9
1115077	Soil	0.24	11.0	0.3	<0.05	<0.1	2.27	6.0	<0.02	<1	<0.1	6.2	<10	<2	0.56	20.71	6.23	49.9	189	9.6	17.8
1115078	Soil	0.32	3.7	0.3	<0.05	<0.1	1.90	5.4	<0.02	2	<0.1	5.6	<10	<2	0.54	13.33	6.21	22.2	233	6.4	8.5
1115079	Soil	0.51	12.1	0.2	<0.05	0.3	4.71	5.3	<0.02	<1	0.2	18.1	<10	<2	1.20	133.3	3.78	43.0	1455	22.6	16.3
1115080	Soil	0.29	8.4	0.2	<0.05	0.3	3.35	3.4	<0.02	2	0.2	10.1	<10	<2	1.31	157.4	5.80	29.5	866	23.5	12.3
1115081	Soil	0.20	17.0	0.2	<0.05	<0.1	1.59	5.0	<0.02	<1	<0.1	4.6	<10	2	0.57	23.81	6.50	157.8	378	8.8	12.4
1115082	Soil	0.10	7.8	0.2	<0.05	<0.1	3.39	8.8	<0.02	<1	0.3	2.6	<10	<2	0.28	35.80	5.51	11.7	586	5.6	3.4
1115083	Soil	0.39	6.2	0.2	<0.05	0.4	2.47	5.8	<0.02	<1	0.2	6.6	<10	<2	0.59	43.38	4.43	26.4	675	11.1	10.8
1115084	Soil	0.17	4.4	0.3	<0.05	<0.1	1.68	6.5	0.03	<1	<0.1	1.4	<10	<2	0.20	13.99	6.45	15.1	947	5.4	4.0
1115085	Soil	0.15	2.9	0.3	<0.05	<0.1	1.31	4.7	<0.02	<1	<0.1	0.8	<10	<2	0.18	6.81	7.00	17.9	650	3.0	2.6
1115087	Soil	0.19	4.2	0.4	<0.05	<0.1	1.52	5.1	<0.02	<1	0.1	1.5	<10	2	0.23	12.13	5.44	16.0	328	8.9	5.0

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 6 of 11 Part 4

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method Analyte	Unit	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	
MDL		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	ppm	%
		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	
540947	Soil	9786	0.13	0.3	<0.1	0.7	<0.1	35.6	0.21	0.08	0.07	2	1.47	0.178	<0.5	3.8	0.09	356.2	0.004	<20	0.11	
540948	Soil	235	0.98	0.5	<0.1	2.1	<0.1	26.9	0.40	0.11	0.16	32	0.40	0.103	0.7	14.2	0.12	389.9	0.039	<20	0.20	
540950	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.	I.S.
541951	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.	I.S.
541952	Soil	1857	0.25	0.6	<0.1	<0.2	<0.1	17.5	0.19	0.13	0.09	6	0.51	0.189	0.8	11.9	0.11	174.4	0.007	<20	0.15	
541953	Soil	1335	0.21	0.2	<0.1	<0.2	<0.1	40.4	0.23	0.12	0.06	6	0.85	0.157	<0.5	3.3	0.08	165.6	0.006	<20	0.09	
541954	Soil	433	0.71	0.5	<0.1	1.7	<0.1	27.2	0.12	0.13	0.10	25	0.32	0.109	0.9	6.8	0.13	96.9	0.020	<20	0.24	
541955	Soil	766	0.26	0.4	<0.1	<0.2	<0.1	14.8	0.11	0.15	0.06	9	0.45	0.148	0.6	7.7	0.17	126.9	0.010	<20	0.17	
541956	Soil	4505	0.27	0.3	<0.1	0.6	<0.1	12.3	0.16	0.13	0.07	7	0.35	0.137	0.7	4.7	0.09	184.4	0.004	<20	0.16	
541957	Soil	3827	0.80	0.4	<0.1	1.1	<0.1	34.6	0.19	0.16	0.08	33	0.46	0.114	0.9	14.3	0.22	235.7	0.044	<20	0.36	
1115067	Soil	478	2.56	1.7	<0.1	62.7	<0.1	8.3	0.13	0.34	0.15	102	0.20	0.102	2.0	36.7	0.83	105.2	0.046	<20	1.09	
1115068	Soil	2133	2.84	0.8	0.3	<0.2	<0.1	29.1	1.01	0.12	0.21	77	1.11	0.057	4.2	61.3	1.29	61.3	0.078	<20	2.35	
1115069	Soil	2284	2.36	1.0	0.1	0.8	<0.1	28.0	0.55	0.16	0.16	85	0.72	0.077	2.2	50.3	1.18	119.0	0.098	<20	1.55	
1115070	Soil	354	3.05	0.5	0.1	0.6	<0.1	13.2	0.10	0.10	0.10	129	0.27	0.058	1.9	106.2	1.70	74.3	0.119	<20	1.85	
1115071	Soil	451	1.91	0.6	<0.1	<0.2	<0.1	22.3	0.28	0.15	0.16	71	0.68	0.075	0.8	44.3	0.68	215.4	0.086	<20	0.90	
1115072	Soil	178	1.48	0.8	<0.1	1.2	<0.1	29.2	0.20	0.14	0.15	52	0.73	0.083	1.2	34.5	0.40	118.7	0.052	<20	0.53	
1115073	Soil	818	3.70	1.0	0.7	2.2	0.1	50.0	0.41	0.13	0.10	127	1.36	0.162	4.1	98.9	1.64	164.9	0.090	<20	2.28	
1115074	Soil	244	1.76	0.6	<0.1	<0.2	<0.1	40.2	0.18	0.17	0.27	70	0.35	0.066	2.1	29.7	0.36	154.4	0.093	<20	0.63	
1115075	Soil	531	1.23	0.2	<0.1	1.0	<0.1	45.0	0.24	0.13	0.24	49	0.34	0.046	2.2	24.5	0.24	187.9	0.068	<20	0.49	
1115076	Soil	141	1.13	0.4	<0.1	2.5	<0.1	39.7	0.19	0.12	0.37	48	0.26	0.045	3.2	20.4	0.20	167.1	0.027	<20	0.63	
1115077	Soil	3615	2.85	0.9	<0.1	2.5	<0.1	51.4	0.34	0.16	0.55	102	0.38	0.062	2.9	29.0	0.64	349.0	0.096	<20	0.96	
1115078	Soil	159	2.20	0.6	<0.1	15.7	<0.1	56.0	0.14	0.18	0.42	83	0.44	0.050	3.0	23.8	0.59	124.2	0.097	<20	0.86	
1115079	Soil	755	3.32	1.1	0.4	1.2	0.1	79.7	0.46	0.16	0.31	144	1.63	0.110	3.1	98.4	1.16	170.9	0.061	<20	1.67	
1115080	Soil	959	1.95	0.4	0.5	5.2	<0.1	85.0	0.81	0.35	0.14	80	2.35	0.133	2.0	87.2	0.89	182.0	0.044	<20	1.07	
1115081	Soil	>10000	2.38	0.4	<0.1	0.9	<0.1	48.4	0.24	0.12	0.24	89	0.55	0.059	2.3	20.2	0.49	671.2	0.072	<20	0.83	
1115082	Soil	104	1.07	0.6	0.2	23.2	<0.1	38.5	0.26	0.08	0.25	36	0.27	0.112	4.7	17.0	0.22	157.0	0.004	<20	0.95	
1115083	Soil	863	1.99	1.0	0.2	0.4	<0.1	85.6	0.96	0.19	0.25	67	1.77	0.112	3.4	26.0	0.62	84.6	0.029	<20	1.10	
1115084	Soil	195	0.85	0.4	<0.1	1.7	<0.1	44.6	0.35	0.10	0.51	36	0.24	0.047	3.3	13.3	0.15	175.9	0.039	<20	0.64	
1115085	Soil	173	0.66	0.3	<0.1	25.6	<0.1	50.8	0.16	0.11	0.23	34	0.33	0.036	2.5	10.1	0.10	145.4	0.061	<20	0.36	
1115087	Soil	100	0.71	0.5	<0.1	<0.2	<0.1	42.8	0.19	0.06	0.60	23	0.26	0.065	2.5	20.5	0.19	166.7	0.014	<20	0.59	

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 6 of 11 Part 5

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
540947	Soil			0.005	0.12	<0.1	0.2	0.60	0.12	227	0.1	<0.02	0.4	4.93	<0.1	<0.02	0.03	17.2	0.1	<0.05	<0.1	0.21	0.6
540948	Soil			0.007	0.08	0.1	0.5	0.03	0.10	114	0.1	<0.02	1.1	4.85	<0.1	<0.02	0.11	10.0	0.2	<0.05	0.1	0.69	1.3
540950	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.
541951	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.
541952	Soil			0.004	0.15	<0.1	0.3	0.28	0.11	154	<0.1	<0.02	0.4	5.66	<0.1	<0.02	0.08	20.0	0.2	<0.05	<0.1	0.52	1.4
541953	Soil			0.005	0.12	<0.1	0.4	0.09	0.13	152	0.1	<0.02	0.3	4.07	<0.1	<0.02	0.04	12.3	0.1	<0.05	<0.1	0.22	0.6
541954	Soil			0.004	0.08	0.1	0.4	0.13	0.08	151	0.1	<0.02	1.1	1.93	<0.1	<0.02	0.09	9.3	0.2	<0.05	<0.1	0.62	1.6
541955	Soil			0.004	0.12	<0.1	0.6	0.14	0.10	318	0.2	<0.02	0.7	3.99	<0.1	<0.02	0.08	12.3	0.1	<0.05	<0.1	0.21	1.0
541956	Soil			0.005	0.11	<0.1	0.2	0.57	0.10	290	<0.1	<0.02	0.6	1.48	<0.1	<0.02	0.03	11.4	0.2	<0.05	<0.1	0.26	1.3
541957	Soil			0.007	0.10	0.2	0.5	0.20	0.08	179	0.2	<0.02	2.4	2.15	<0.1	<0.02	0.15	14.7	0.2	<0.05	<0.1	0.74	1.8
1115067	Soil			0.006	0.08	0.1	2.9	0.09	0.07	136	0.3	0.03	6.1	3.40	<0.1	<0.02	0.51	7.9	0.3	<0.05	<0.1	0.51	4.1
1115068	Soil			0.011	0.06	<0.1	2.9	0.09	0.05	59	0.6	<0.02	4.9	26.14	<0.1	<0.02	0.65	9.6	0.3	<0.05	<0.1	5.82	7.4
1115069	Soil			0.010	0.07	<0.1	2.1	0.16	0.07	112	0.3	<0.02	5.2	10.96	<0.1	<0.02	0.45	9.4	0.3	<0.05	<0.1	2.72	4.6
1115070	Soil			0.008	0.05	0.1	5.9	<0.02	0.05	92	0.1	<0.02	7.7	5.39	<0.1	<0.02	0.46	7.6	0.3	<0.05	<0.1	1.82	3.9
1115071	Soil			0.008	0.05	0.2	1.4	<0.02	0.09	223	<0.1	<0.02	3.9	7.86	<0.1	<0.02	0.44	9.2	0.2	<0.05	0.1	0.77	1.6
1115072	Soil			0.007	0.06	0.2	0.9	0.04	0.09	158	0.1	<0.02	3.1	3.72	<0.1	<0.02	0.48	5.5	0.2	<0.05	0.2	0.82	2.2
1115073	Soil			0.007	0.17	0.1	4.7	0.10	0.10	35	1.1	0.04	6.2	27.28	<0.1	<0.02	0.39	26.6	0.2	<0.05	0.2	9.16	5.6
1115074	Soil			0.005	0.04	0.1	0.8	0.02	0.03	42	0.2	0.02	3.7	2.04	<0.1	<0.02	0.30	6.3	0.3	<0.05	<0.1	1.54	4.2
1115075	Soil			0.004	0.04	<0.1	0.6	0.03	0.02	16	<0.1	<0.02	3.2	1.57	<0.1	<0.02	0.23	8.0	0.3	<0.05	<0.1	1.55	4.5
1115076	Soil			0.005	0.03	<0.1	0.4	0.03	0.02	27	<0.1	<0.02	3.5	1.18	<0.1	<0.02	0.15	3.8	0.4	<0.05	<0.1	1.51	6.0
1115077	Soil			0.004	0.04	<0.1	2.1	0.14	0.03	48	0.2	0.05	5.1	3.73	<0.1	<0.02	0.19	12.1	0.3	<0.05	<0.1	2.38	6.1
1115078	Soil			0.004	0.04	1.1	2.1	<0.02	0.03	30	0.2	0.04	4.6	1.60	<0.1	<0.02	0.38	4.5	0.4	<0.05	<0.1	2.24	5.9
1115079	Soil			0.007	0.06	0.1	3.1	<0.02	0.10	50	0.7	0.05	5.6	9.11	<0.1	<0.02	0.46	11.7	0.2	<0.05	0.3	4.54	4.9
1115080	Soil			0.007	0.07	0.1	1.6	0.13	0.19	86	2.1	<0.02	3.8	5.02	0.1	<0.02	0.22	7.5	0.1	<0.05	0.2	3.05	2.8
1115081	Soil			0.005	0.04	<0.1	1.1	0.66	0.04	78	0.3	<0.02	4.8	3.24	<0.1	<0.02	0.14	15.7	0.3	<0.05	<0.1	1.51	4.7
1115082	Soil			0.006	0.04	<0.1	0.2	0.02	0.05	73	0.3	<0.02	3.6	1.44	<0.1	<0.02	0.11	7.7	0.3	<0.05	<0.1	3.41	8.6
1115083	Soil			0.006	0.04	0.2	1.2	<0.02	0.09	68	0.2	<0.02	3.7	1.17	<0.1	<0.02	0.41	6.9	0.2	<0.05	<0.1	2.81	5.9
1115084	Soil			0.004	0.03	<0.1	0.4	0.04	0.03	43	<0.1	<0.02	3.6	0.89	<0.1	<0.02	0.18	4.3	0.3	<0.05	<0.1	1.78	6.4
1115085	Soil			0.004	0.02	<0.1	0.7	<0.02	0.02	35	0.1	<0.02	2.5	0.77	<0.1	<0.02	0.17	2.7	0.2	<0.05	<0.1	1.43	5.0
1115087	Soil			0.005	0.04	<0.1	0.3	0.03	0.04	33	0.3	<0.02	3.1	0.76	<0.1	<0.02	0.27	4.2	0.3	<0.05	<0.1	1.59	4.7



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Report Date: September 30, 2011

Page: 6 of 11 Part 6

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	1	0.1	0.1	10	2
540947	Soil	<0.02	<1	<0.1	0.4	<10	<2
540948	Soil	<0.02	2	<0.1	0.8	<10	<2
540950	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541951	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541952	Soil	<0.02	<1	<0.1	1.0	<10	<2
541953	Soil	<0.02	<1	<0.1	0.4	<10	<2
541954	Soil	<0.02	<1	<0.1	1.0	<10	<2
541955	Soil	<0.02	3	<0.1	1.0	<10	<2
541956	Soil	<0.02	<1	<0.1	0.6	<10	<2
541957	Soil	<0.02	1	0.1	1.0	<10	<2
1115067	Soil	<0.02	<1	0.2	13.1	<10	<2
1115068	Soil	0.02	<1	0.3	31.3	<10	<2
1115069	Soil	<0.02	<1	<0.1	12.4	<10	<2
1115070	Soil	0.02	<1	0.1	14.9	<10	<2
1115071	Soil	<0.02	<1	<0.1	9.6	<10	<2
1115072	Soil	<0.02	<1	<0.1	3.9	<10	<2
1115073	Soil	<0.02	<1	0.3	20.5	<10	<2
1115074	Soil	<0.02	<1	<0.1	4.3	<10	<2
1115075	Soil	<0.02	<1	<0.1	2.4	<10	<2
1115076	Soil	<0.02	<1	0.1	2.4	<10	<2
1115077	Soil	<0.02	<1	0.1	6.8	<10	<2
1115078	Soil	<0.02	<1	<0.1	5.9	<10	<2
1115079	Soil	<0.02	<1	0.2	18.6	<10	2
1115080	Soil	<0.02	<1	0.3	9.1	<10	<2
1115081	Soil	<0.02	<1	<0.1	4.8	<10	<2
1115082	Soil	0.02	<1	0.2	2.6	<10	<2
1115083	Soil	<0.02	1	0.1	7.6	<10	<2
1115084	Soil	<0.02	<1	0.2	1.5	<10	<2
1115085	Soil	<0.02	<1	<0.1	0.8	<10	<2
1115087	Soil	<0.02	1	0.2	1.6	<10	<2



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 7 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	%	%
				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
1115088	Soil			0.25	12.47	5.11	16.6	1246	10.8	5.1	62	0.82	0.8	<0.1	7.2	<0.1	33.2	0.24	0.08	0.17	22	0.22	0.134
1115089	Soil			0.27	7.67	6.15	18.4	778	6.3	3.7	355	0.68	0.6	<0.1	5.4	<0.1	27.2	0.25	0.12	0.06	27	0.14	0.048
1115090	Soil			0.33	7.64	7.52	14.3	1971	4.2	2.2	44	0.43	0.6	<0.1	7.9	<0.1	36.1	0.19	0.09	0.17	18	0.18	0.060
1115091	Soil			0.41	11.43	7.64	27.8	359	6.4	4.6	840	0.82	0.5	<0.1	3.2	<0.1	34.0	0.32	0.11	0.13	28	0.21	0.049
1115092	Soil			0.28	5.89	6.39	13.2	340	4.5	3.6	94	0.89	0.6	<0.1	16.6	<0.1	32.1	0.05	0.12	0.11	39	0.20	0.030
1115093	Soil			0.42	7.36	10.17	36.0	616	4.5	2.3	351	0.60	0.3	<0.1	1.9	<0.1	42.7	0.18	0.10	0.08	21	0.56	0.039
1115094	Soil			0.48	7.42	6.26	20.0	148	5.1	3.9	350	0.90	0.7	<0.1	21.4	<0.1	38.4	0.19	0.10	0.19	37	0.39	0.036
1115095	Soil			1.67	9.36	5.23	23.7	90	6.1	6.2	973	1.02	0.9	<0.1	7.0	<0.1	47.1	0.12	0.11	0.05	37	0.45	0.032
537901	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.
537902	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.
537903	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.
537904	Soil			5.99	419.9	12.47	19.7	2234	8.8	3.7	3788	0.54	<0.1	0.2	0.4	0.1	121.4	1.20	0.52	<0.02	19	2.76	0.176
537905	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.
537906	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.
537907	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.
537908	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.
537909	Soil			8.37	92.61	3.47	19.5	407	2.5	1.1	73	0.29	<0.1	<0.1	<0.2	<0.1	55.1	0.60	0.09	<0.02	8	1.07	0.114
537910	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.
537911	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.
537912	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.
537913	Soil			0.78	15.90	10.98	77.9	175	5.6	3.4	573	1.06	<0.1	<0.1	2.5	<0.1	28.9	0.38	0.18	<0.02	29	0.33	0.141
537914	Soil			2.96	59.17	4.53	27.1	141	10.6	8.7	160	1.91	1.7	2.9	6.3	0.8	42.4	0.20	0.18	0.05	55	0.49	0.112
537915	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.
537916	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.
537917	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.
537918	Soil			1.88	16.09	6.60	48.8	270	4.1	5.1	1294	1.43	1.0	0.1	10.5	<0.1	39.8	0.70	0.20	<0.02	40	0.41	0.069
537919	Soil			8.54	164.7	119.6	23.2	3064	4.0	2.2	1159	0.39	<0.1	9.4	2.0	0.2	228.6	0.82	0.68	0.28	6	1.87	0.131
537920	Soil			3.34	11.20	9.22	59.5	882	2.8	4.5	2730	0.61	<0.1	0.1	4.8	<0.1	64.5	0.58	0.16	0.03	18	0.71	0.117
537921	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.
537922	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.



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 7 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	
1115088	Soil	2.2	26.7	0.25	132.4	0.002	<1	0.66	0.005	0.03	<0.1	0.1	0.03	0.05	68	0.2	<0.02	3.2	2.17	<0.1	<0.02
1115089	Soil	2.5	26.0	0.18	144.3	0.023	<1	0.42	0.004	0.03	<0.1	0.3	0.06	0.03	35	0.2	<0.02	3.4	1.46	<0.1	<0.02
1115090	Soil	1.9	9.3	0.11	106.1	0.005	<1	0.41	0.004	0.03	<0.1	0.1	0.02	0.03	62	0.2	<0.02	2.1	0.76	<0.1	<0.02
1115091	Soil	2.2	18.5	0.25	240.7	0.034	<1	0.53	0.004	0.03	<0.1	0.5	0.08	0.03	67	0.2	<0.02	3.4	1.56	<0.1	<0.02
1115092	Soil	2.3	17.7	0.29	69.4	0.090	<1	0.59	0.004	0.02	0.1	1.4	0.03	<0.02	32	0.2	<0.02	4.6	0.49	<0.1	<0.02
1115093	Soil	2.2	11.0	0.18	252.1	0.033	<1	0.40	0.006	0.03	<0.1	0.4	0.03	0.03	80	0.1	<0.02	2.5	0.96	<0.1	<0.02
1115094	Soil	2.5	11.6	0.36	149.4	0.066	<1	0.61	0.006	0.03	<0.1	0.9	<0.02	0.02	57	0.2	<0.02	4.1	0.81	<0.1	<0.02
1115095	Soil	2.6	13.5	0.29	291.0	0.075	<1	0.55	0.004	0.04	0.1	1.5	0.06	<0.02	39	0.2	<0.02	3.8	1.02	<0.1	<0.02
537901	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.
537902	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.
537903	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.
537904	Soil	5.7	7.8	0.15	212.2	0.007	4	0.37	0.006	0.16	0.2	5.3	0.12	0.16	204	1.0	<0.02	0.7	2.51	0.2	0.03
537905	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.
537906	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.
537907	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.
537908	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.
537909	Soil	0.7	5.1	0.11	31.3	0.007	1	0.13	0.006	0.08	<0.1	1.2	0.03	0.18	157	0.8	<0.02	0.4	0.75	<0.1	<0.02
537910	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.
537911	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.
537912	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.
537913	Soil	2.6	10.6	0.09	417.6	0.004	<1	0.53	0.008	0.07	0.1	0.3	0.05	0.05	84	0.4	<0.02	2.4	0.66	<0.1	<0.02
537914	Soil	7.1	22.8	0.50	114.9	0.031	<1	1.03	0.013	0.07	0.4	2.8	0.08	0.13	68	0.8	0.06	3.0	1.11	<0.1	<0.02
537915	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.
537916	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.
537917	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.
537918	Soil	2.9	10.8	0.16	149.6	0.015	2	0.43	0.006	0.05	0.2	0.3	0.06	0.05	148	0.2	0.05	2.9	0.30	<0.1	<0.02
537919	Soil	72.0	4.8	0.08	426.9	0.004	5	0.33	0.008	0.10	0.2	1.4	0.04	0.16	256	0.5	0.04	0.6	2.30	<0.1	<0.02
537920	Soil	2.5	5.8	0.07	410.7	0.006	2	0.23	0.006	0.12	0.1	0.2	0.10	0.10	171	0.2	<0.02	1.2	0.39	<0.1	<0.02
537921	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.
537922	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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 7 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	
1115088	Soil	0.05	12.6	0.2	<0.05	<0.1	1.54	4.2	<0.02	<1	0.2	1.9	<10	<2	0.19	11.20	4.44	15.2	1040	10.2	4.8
1115089	Soil	0.24	5.3	0.4	<0.05	<0.1	1.11	4.7	<0.02	<1	<0.1	1.3	<10	<2	0.20	7.09	5.58	16.5	681	5.9	3.6
1115090	Soil	0.07	3.2	0.2	<0.05	<0.1	0.85	3.5	<0.02	<1	0.2	0.8	<10	<2	0.29	7.75	7.30	15.1	2035	4.5	2.5
1115091	Soil	0.21	6.1	0.3	<0.05	<0.1	1.31	4.2	<0.02	<1	<0.1	1.7	<10	<2	0.25	10.27	6.27	27.1	309	6.2	4.4
1115092	Soil	0.43	3.5	0.3	<0.05	<0.1	1.55	4.4	<0.02	<1	<0.1	1.7	<10	<2	0.29	6.11	6.27	15.4	318	6.1	3.4
1115093	Soil	0.25	4.9	0.3	<0.05	<0.1	1.24	4.2	<0.02	<1	0.1	0.9	<10	<2	0.28	7.06	9.16	35.1	576	4.2	2.4
1115094	Soil	0.43	6.9	0.3	<0.05	<0.1	1.68	4.6	<0.02	<1	<0.1	1.9	<10	<2	0.38	7.51	6.00	20.3	149	4.8	4.1
1115095	Soil	0.38	15.2	0.2	<0.05	<0.1	1.82	5.0	<0.02	<1	<0.1	1.3	<10	4	1.21	8.84	5.01	24.1	89	5.7	7.0
537901	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.	2.57	14.64	4.96	36.5	390	6.0	4.0
537902	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.	2.75	6.71	3.80	35.3	303	2.0	1.8
537903	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.	2.95	15.40	8.55	36.1	412	2.8	2.3
537904	Soil	0.08	14.0	0.2	<0.05	0.3	13.31	5.1	<0.02	<1	0.1	1.3	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537905	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.	2.67	24.23	6.13	29.0	1260	4.3	3.6
537906	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.	3.77	20.25	5.16	12.7	452	3.3	2.6
537907	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.	3.03	11.88	3.21	32.6	258	2.0	0.9
537908	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.	0.80	11.29	3.38	49.3	740	2.1	1.3
537909	Soil	0.04	7.1	0.2	<0.05	0.5	1.24	0.8	<0.02	<1	<0.1	0.7	<10	<2	8.14	94.97	3.38	20.3	417	3.3	1.2
537910	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.	0.86	12.77	8.69	34.5	850	2.9	1.9
537911	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.	0.93	8.83	5.27	40.5	1024	2.7	2.3
537912	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.	0.68	17.36	7.06	46.4	562	4.0	2.8
537913	Soil	0.05	8.6	0.3	<0.05	<0.1	1.07	4.7	<0.02	<1	0.1	0.5	<10	<2	0.67	16.61	9.99	75.0	187	5.3	3.4
537914	Soil	0.24	8.3	0.1	<0.05	0.1	6.50	9.9	<0.02	5	0.2	6.4	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537915	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.	3.61	39.53	11.15	24.2	751	8.3	14.8
537916	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.	1.87	26.03	4.94	28.6	371	5.2	2.9
537917	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.	3.28	17.35	5.53	27.1	950	4.4	4.2
537918	Soil	0.18	6.9	0.2	<0.05	<0.1	1.29	5.2	<0.02	<1	<0.1	1.2	<10	<2	1.55	14.78	5.62	43.5	243	4.0	4.5
537919	Soil	0.13	9.7	0.1	<0.05	0.2	62.17	20.6	<0.02	<1	0.4	1.2	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537920	Soil	0.13	7.8	0.2	<0.05	<0.1	0.94	3.8	<0.02	<1	<0.1	0.5	<10	<2	2.94	11.52	8.15	55.9	776	3.2	4.4
537921	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	5.26	3.96	67.1	128	1.9	0.5
537922	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.	4.01	331.3	11.71	13.8	3035	5.9	1.3

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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 7 of 11 Part 4

CERTIFICATE OF ANALYSIS

SMI11000351.1

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
1115088	Soil	63	0.73	0.4	<0.1	2.2	<0.1	39.2	0.21	0.07	0.14	22	0.25	0.090	1.9	24.5	0.23	116.0	0.002	<20	0.68
1115089	Soil	349	0.66	0.6	<0.1	1.3	<0.1	34.4	0.21	0.09	0.14	28	0.17	0.050	2.4	25.4	0.18	138.0	0.033	<20	0.47
1115090	Soil	54	0.43	0.5	<0.1	2.9	<0.1	50.1	0.23	0.10	0.18	20	0.24	0.059	2.0	10.9	0.13	123.1	0.011	<20	0.54
1115091	Soil	772	0.78	0.4	<0.1	7.3	<0.1	41.5	0.28	0.10	0.14	28	0.22	0.046	1.9	16.9	0.27	224.4	0.040	<20	0.57
1115092	Soil	105	0.92	0.2	<0.1	5.1	<0.1	45.8	0.06	0.13	0.13	43	0.26	0.035	2.3	19.7	0.32	76.9	0.119	<20	0.72
1115093	Soil	353	0.62	0.3	<0.1	1.9	<0.1	54.0	0.17	0.08	0.12	24	0.60	0.040	2.3	11.9	0.21	265.6	0.049	<20	0.49
1115094	Soil	378	0.86	<0.1	<0.1	1.7	<0.1	47.2	0.18	0.08	0.13	37	0.42	0.037	2.4	11.5	0.38	167.9	0.084	<20	0.68
1115095	Soil	984	0.96	0.3	<0.1	2.6	<0.1	54.0	0.15	0.08	0.12	36	0.48	0.032	2.3	14.6	0.32	292.8	0.085	<20	0.59
537901	Soil	760	0.55	0.4	<0.1	1.0	<0.1	69.6	0.24	0.13	0.07	17	1.15	0.076	1.0	12.9	0.21	169.9	0.023	<20	0.25
537902	Soil	496	0.63	0.3	<0.1	0.9	<0.1	8.1	0.15	0.28	0.04	17	0.33	0.126	<0.5	7.2	0.08	90.7	0.013	<20	0.10
537903	Soil	417	0.65	0.4	<0.1	0.6	<0.1	19.5	0.44	0.11	0.06	19	0.40	0.119	0.7	13.1	0.12	188.7	0.019	<20	0.11
537904	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.
537905	Soil	679	1.84	0.2	<0.1	1.8	<0.1	25.5	0.38	0.14	0.06	53	0.59	0.068	0.8	35.4	0.09	110.2	0.052	<20	0.15
537906	Soil	111	0.72	0.6	<0.1	4.5	<0.1	38.5	0.33	0.10	0.04	21	0.88	0.076	<0.5	16.6	0.16	53.2	0.018	<20	0.11
537907	Soil	186	0.09	0.1	<0.1	1.0	<0.1	23.7	0.26	0.12	0.04	<2	0.73	0.118	<0.5	5.4	0.11	114.0	0.003	<20	0.05
537908	Soil	664	0.43	0.5	<0.1	<0.2	<0.1	20.2	0.20	0.16	0.07	15	0.46	0.113	0.8	6.6	0.08	120.0	0.004	<20	0.17
537909	Soil	82	0.25	0.3	<0.1	0.3	<0.1	61.8	0.58	0.13	0.06	7	1.07	0.120	0.7	6.3	0.12	34.9	0.009	<20	0.13
537910	Soil	151	0.55	0.6	<0.1	3.2	<0.1	23.8	0.16	0.15	0.07	18	0.24	0.073	1.5	7.2	0.05	166.8	0.007	<20	0.25
537911	Soil	414	0.72	0.6	<0.1	2.0	<0.1	20.5	0.18	0.10	0.05	23	0.26	0.092	0.8	9.9	0.13	82.7	0.024	<20	0.24
537912	Soil	375	0.99	0.3	<0.1	2.8	<0.1	20.8	0.26	0.11	0.09	34	0.26	0.075	1.3	10.7	0.18	127.1	0.037	<20	0.47
537913	Soil	557	0.85	0.3	<0.1	4.1	<0.1	29.7	0.32	0.11	0.11	25	0.32	0.092	2.0	10.5	0.10	416.3	0.002	<20	0.54
537914	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.
537915	Soil	1505	1.56	0.9	1.6	17.0	<0.1	51.2	0.64	0.15	0.12	39	0.64	0.172	7.8	16.8	0.27	166.5	0.004	<20	0.88
537916	Soil	435	0.67	1.2	0.3	1.5	<0.1	66.8	0.55	0.23	0.06	18	0.70	0.091	3.3	9.9	0.22	129.1	0.016	<20	0.39
537917	Soil	266	0.20	0.1	0.2	<0.2	<0.1	97.6	0.43	0.14	0.06	8	1.08	0.120	3.2	4.5	0.14	232.3	0.008	<20	0.19
537918	Soil	1316	1.33	0.6	0.1	8.1	<0.1	43.5	0.61	0.14	0.10	39	0.41	0.066	2.7	9.8	0.18	135.2	0.022	<20	0.46
537919	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.
537920	Soil	2783	0.61	0.6	0.1	1.4	<0.1	67.1	0.50	0.15	0.07	17	0.71	0.124	2.5	5.9	0.08	382.3	0.009	<20	0.28
537921	Soil	1708	0.08	<0.1	<0.1	1.6	<0.1	35.9	0.12	0.08	0.04	<2	0.53	0.174	0.6	3.8	0.07	177.0	0.002	<20	0.10
537922	Soil	1254	0.19	<0.1	3.2	2.8	<0.1	161.9	1.75	0.32	0.04	4	2.43	0.135	43.2	3.4	0.09	150.9	0.002	<20	0.38

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 7 of 11 Part 5

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
1115088	Soil			0.006	0.03	<0.1	0.1	<0.02	0.04	43	0.1	<0.02	3.0	1.84	<0.1	<0.02	0.05	11.1	0.2	<0.05	<0.1	1.32	3.6
1115089	Soil			0.004	0.03	<0.1	0.4	0.05	0.03	41	<0.1	<0.02	3.2	1.32	<0.1	<0.02	0.26	5.2	0.3	<0.05	<0.1	1.20	4.5
1115090	Soil			0.004	0.03	<0.1	0.3	0.03	0.04	68	0.3	0.03	2.5	0.89	<0.1	<0.02	0.08	3.8	0.3	<0.05	<0.1	0.99	3.8
1115091	Soil			0.005	0.04	<0.1	0.5	0.08	0.03	54	0.2	<0.02	3.4	1.45	<0.1	<0.02	0.14	5.8	0.2	<0.05	<0.1	1.17	3.9
1115092	Soil			0.006	0.03	<0.1	1.4	0.02	0.02	45	0.2	0.04	4.4	0.53	<0.1	<0.02	0.45	3.6	0.3	<0.05	0.2	1.83	4.7
1115093	Soil			0.006	0.04	<0.1	0.5	0.03	0.03	79	0.2	0.04	2.9	0.99	<0.1	<0.02	0.26	5.0	0.3	<0.05	<0.1	1.34	4.9
1115094	Soil			0.007	0.04	<0.1	0.8	0.02	0.02	47	0.2	<0.02	4.3	0.81	<0.1	<0.02	0.35	7.2	0.3	<0.05	<0.1	1.75	4.9
1115095	Soil			0.004	0.04	<0.1	1.3	0.04	<0.02	26	0.5	<0.02	3.8	1.00	<0.1	<0.02	0.28	14.3	0.2	<0.05	<0.1	1.79	4.9
537901	Soil			0.007	0.06	0.1	0.5	0.03	0.09	119	0.4	0.05	1.4	0.75	<0.1	<0.02	0.15	7.1	0.2	<0.05	<0.1	0.91	1.9
537902	Soil			0.006	0.11	<0.1	0.5	0.05	0.10	135	0.3	<0.02	0.4	0.56	<0.1	<0.02	0.05	11.4	0.2	<0.05	<0.1	0.25	0.7
537903	Soil			0.007	0.11	<0.1	0.7	0.04	0.10	140	0.5	<0.02	0.6	0.83	<0.1	<0.02	0.06	10.0	0.2	<0.05	0.1	0.40	1.3
537904	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.
537905	Soil			0.007	0.05	0.2	1.1	0.03	0.07	137	0.6	0.03	1.1	0.40	<0.1	<0.02	0.25	4.3	0.3	<0.05	0.2	0.82	1.6
537906	Soil			0.007	0.06	<0.1	0.6	<0.02	0.12	111	0.5	0.02	0.7	0.28	<0.1	<0.02	0.06	4.2	0.1	<0.05	0.3	0.48	0.6
537907	Soil			0.005	0.12	<0.1	0.2	0.02	0.15	146	0.4	0.02	0.2	0.20	<0.1	<0.02	0.03	9.6	0.2	<0.05	0.2	0.15	0.4
537908	Soil			0.009	0.12	0.1	0.3	<0.02	0.09	113	0.2	<0.02	1.2	0.31	<0.1	<0.02	0.09	5.7	0.1	<0.05	<0.1	0.29	1.4
537909	Soil			0.006	0.08	<0.1	1.0	0.03	0.17	121	1.0	0.05	0.4	0.65	<0.1	<0.02	0.06	6.9	0.1	<0.05	0.2	1.27	0.7
537910	Soil			0.010	0.06	0.2	0.3	0.02	0.06	92	0.3	<0.02	1.8	0.30	<0.1	<0.02	0.14	5.9	0.3	<0.05	<0.1	0.41	2.9
537911	Soil			0.010	0.08	<0.1	0.3	0.04	0.07	92	0.3	<0.02	1.4	0.42	<0.1	<0.02	0.16	7.7	0.2	<0.05	<0.1	0.62	1.4
537912	Soil			0.011	0.11	<0.1	0.4	0.04	0.06	85	0.3	0.06	2.4	0.42	<0.1	<0.02	0.16	8.6	0.2	<0.05	<0.1	1.06	2.6
537913	Soil			0.007	0.06	<0.1	0.2	0.03	0.05	65	<0.1	<0.02	2.1	0.46	<0.1	<0.02	0.05	6.5	0.2	<0.05	<0.1	1.01	4.0
537914	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.
537915	Soil			0.018	0.09	0.1	0.4	0.11	0.16	127	0.7	0.03	3.4	1.82	<0.1	<0.02	0.11	11.0	0.2	<0.05	<0.1	7.38	17.8
537916	Soil			0.010	0.10	0.2	0.9	0.03	0.11	130	0.4	<0.02	1.6	0.39	<0.1	<0.02	0.25	5.7	0.1	<0.05	0.1	2.33	5.0
537917	Soil			0.008	0.10	<0.1	0.5	0.02	0.13	190	0.7	<0.02	0.7	0.23	<0.1	<0.02	0.12	5.3	0.1	<0.05	0.2	2.68	5.2
537918	Soil			0.007	0.05	0.1	0.3	0.04	0.05	91	0.3	0.04	3.0	0.28	<0.1	<0.02	0.17	7.2	0.2	<0.05	<0.1	1.27	5.0
537919	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.
537920	Soil			0.007	0.12	0.2	0.2	0.10	0.10	143	0.7	0.06	1.4	0.50	<0.1	<0.02	0.09	10.7	0.2	<0.05	<0.1	0.96	3.5
537921	Soil			0.006	0.14	<0.1	0.2	0.08	0.11	309	0.3	<0.02	0.2	0.40	<0.1	<0.02	0.03	12.3	0.1	<0.05	<0.1	0.45	0.5
537922	Soil			0.007	0.07	<0.1	0.7	0.15	0.17	196	2.3	<0.02	0.7	0.27	0.3	<0.02	0.04	3.5	<0.1	<0.05	0.2	50.01	19.6

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Project: Aug 12, 2011 Shipment
Report Date: September 30, 2011

Page: 7 of 11 Part 6

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
				ppm	ppb	ppm	ppm	ppb	ppb
				0.02	1	0.1	0.1	10	2
1115088	Soil			<0.02	2	0.2	1.9	<10	<2
1115089	Soil			<0.02	<1	<0.1	1.4	<10	<2
1115090	Soil			0.02	1	<0.1	0.9	<10	2
1115091	Soil			<0.02	<1	<0.1	1.4	<10	<2
1115092	Soil			<0.02	<1	<0.1	2.0	<10	<2
1115093	Soil			<0.02	<1	<0.1	1.0	<10	<2
1115094	Soil			<0.02	<1	<0.1	1.9	<10	3
1115095	Soil			<0.02	1	<0.1	1.2	<10	3
537901	Soil			<0.02	1	<0.1	0.8	<10	<2
537902	Soil			<0.02	1	<0.1	0.3	<10	<2
537903	Soil			<0.02	<1	<0.1	0.3	<10	<2
537904	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537905	Soil			<0.02	1	<0.1	0.5	<10	3
537906	Soil			<0.02	<1	<0.1	0.7	<10	<2
537907	Soil			<0.02	<1	<0.1	0.2	<10	2
537908	Soil			<0.02	<1	<0.1	0.2	<10	<2
537909	Soil			<0.02	<1	<0.1	0.8	<10	<2
537910	Soil			<0.02	<1	<0.1	0.3	<10	<2
537911	Soil			<0.02	<1	<0.1	0.6	<10	<2
537912	Soil			<0.02	1	<0.1	0.3	<10	<2
537913	Soil			<0.02	<1	0.1	0.6	<10	<2
537914	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537915	Soil			<0.02	2	0.4	4.1	<10	<2
537916	Soil			<0.02	<1	<0.1	1.6	<10	<2
537917	Soil			<0.02	<1	<0.1	0.3	<10	<2
537918	Soil			<0.02	1	<0.1	1.1	<10	<2
537919	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537920	Soil			<0.02	9	<0.1	0.4	<10	<2
537921	Soil			<0.02	<1	<0.1	0.1	<10	<2
537922	Soil			<0.02	<1	0.3	0.4	<10	<2



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Page: 8 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	%	%
537923	Soil			3.91	12.84	3.21	14.2	79	1.9	0.2	229	0.07	<0.1	<0.1	<0.2	<0.1	57.9	0.39	0.07	<0.02	<2	0.85	0.080
537924	Soil			12.62	99.33	17.23	22.1	515	8.8	11.0	4686	1.59	<0.1	0.6	<0.2	<0.1	100.7	0.82	0.28	0.13	42	0.89	0.094
537925	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.
537926	Soil			14.17	135.0	7.95	76.9	916	18.8	16.4	580	4.27	5.0	8.4	15.6	0.5	42.6	1.37	0.40	0.19	96	0.64	0.205
537927	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.
537928	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.
537929	Soil			1.66	13.60	8.57	28.6	871	6.3	5.1	102	1.68	0.8	<0.1	3.9	<0.1	28.5	0.21	0.16	0.09	48	0.29	0.074
537930	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.
537931	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.
537932	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.
537933	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.
537934	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.
537935	Soil			1.80	498.3	9.06	31.0	776	10.1	14.1	2625	1.66	0.7	0.4	3.0	<0.1	136.4	0.92	0.76	0.07	60	2.54	0.139
537936	Soil			0.78	8.84	7.49	81.3	1127	1.8	1.3	3881	0.26	0.4	<0.1	2.5	<0.1	23.8	0.17	0.12	0.06	9	0.72	0.123
537937	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.
537951	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.
537952	Soil			1.56	332.3	5.52	44.3	635	11.9	14.0	514	2.53	0.9	0.3	2.3	<0.1	96.7	0.51	0.29	0.06	102	1.89	0.114
537953	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.
537954	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.
552003	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.
552004	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.
552005	Soil			4.29	22.68	8.46	51.5	441	6.7	4.4	323	1.07	1.0	0.2	7.6	0.2	55.4	0.20	0.20	0.13	30	0.52	0.103
552006	Soil			1.30	18.96	5.13	62.1	199	6.2	6.3	1309	1.85	0.7	0.1	4.7	<0.1	34.6	0.27	0.14	0.07	56	0.42	0.061
552007	Soil			6.75	106.2	4.21	47.8	201	13.9	16.3	528	3.14	2.8	5.6	12.5	1.3	44.1	0.24	0.20	0.08	93	0.74	0.159
552008	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.
552009	Soil			11.62	78.23	24.60	61.8	1329	8.6	26.3	9269	1.29	1.1	1.2	2.6	<0.1	89.7	1.84	0.25	0.22	36	1.02	0.125
552010	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.
552011	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.
552012	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.
552013	Soil			2.17	65.33	6.40	29.0	220	10.9	5.4	120	1.35	1.6	3.8	6.8	0.2	48.2	0.32	0.22	0.10	43	0.79	0.139

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 8 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	%	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	
537923	Soil	<0.5	1.9	0.08	56.7	0.001	2	0.06	0.007	0.07	<0.1	0.3	<0.02	0.18	217	0.5	<0.02	0.1	0.10	<0.1	<0.02
537924	Soil	10.2	10.9	0.24	392.4	0.021	1	0.67	0.008	0.08	0.3	0.8	0.13	0.09	129	0.3	<0.02	3.1	1.04	<0.1	<0.02
537925	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.
537926	Soil	12.1	37.1	0.73	169.5	0.029	2	1.56	0.009	0.07	0.9	3.2	0.18	0.17	195	2.9	<0.02	4.1	2.55	<0.1	<0.02
537927	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.
537928	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.
537929	Soil	2.1	29.0	0.10	274.7	0.030	2	0.32	0.008	0.05	0.2	0.9	<0.02	0.06	134	0.3	<0.02	1.8	0.47	<0.1	<0.02
537930	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.
537931	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.
537932	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.
537933	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.
537934	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.
537935	Soil	3.5	25.3	0.46	259.7	0.024	4	0.62	0.006	0.09	0.2	2.4	0.23	0.15	243	1.8	<0.02	1.7	0.86	<0.1	<0.02
537936	Soil	1.1	4.1	0.07	162.4	0.017	2	0.14	0.006	0.12	0.2	0.3	0.09	0.09	189	0.3	<0.02	1.1	0.59	<0.1	<0.02
537937	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.
537951	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.
537952	Soil	2.5	33.6	0.65	178.4	0.054	2	0.90	0.011	0.09	0.3	3.1	0.04	0.12	130	0.7	<0.02	3.3	1.65	<0.1	<0.02
537953	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.
537954	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.
552003	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.
552004	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.
552005	Soil	2.4	12.5	0.22	276.0	0.035	2	0.46	0.007	0.09	0.2	1.3	0.03	0.10	146	0.6	0.05	2.5	0.70	<0.1	<0.02
552006	Soil	1.9	25.6	0.20	394.0	0.056	2	0.48	0.010	0.06	0.3	1.1	<0.02	0.05	37	0.4	<0.02	3.2	0.37	<0.1	<0.02
552007	Soil	8.2	41.1	0.84	93.2	0.055	1	1.34	0.012	0.10	0.6	4.1	0.05	0.08	68	0.7	<0.02	3.9	0.99	<0.1	<0.02
552008	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.
552009	Soil	6.4	11.4	0.23	799.1	0.019	3	0.57	0.006	0.09	0.2	1.0	0.22	0.08	249	0.8	0.05	3.3	1.66	<0.1	<0.02
552010	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.
552011	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.
552012	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.
552013	Soil	6.2	21.0	0.36	103.9	0.021	2	0.88	0.013	0.06	0.3	2.0	0.10	0.24	138	0.9	<0.02	2.5	1.00	<0.1	<0.02

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 8 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	ppm	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	
537923	Soil	0.02	4.7	<0.1	<0.05	0.5	0.33	0.5	<0.02	<1	<0.1	<0.1	<10	<2	3.47	12.33	2.89	12.6	82	1.7	0.2
537924	Soil	0.33	18.8	0.2	<0.05	<0.1	6.05	16.4	<0.02	<1	0.3	4.2	<10	<2	10.27	92.91	14.04	21.4	479	8.2	11.0
537925	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.	2.13	15.73	4.57	20.5	123	3.1	2.1
537926	Soil	0.39	16.7	0.2	<0.05	0.2	10.85	16.3	0.04	<1	0.6	9.2	11	<2	12.04	120.5	6.52	67.8	785	17.2	15.4
537927	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.	0.89	9.51	6.72	46.2	323	4.0	2.1
537928	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	7.80	3.98	35.3	210	2.6	0.6
537929	Soil	0.14	7.7	0.3	<0.05	<0.1	0.96	4.4	<0.02	4	<0.1	0.4	<10	<2	1.37	11.05	7.01	23.2	692	4.8	4.2
537930	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.	0.52	4.36	2.95	59.6	234	1.4	0.6
537931	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.	0.78	7.53	7.51	64.1	1173	2.2	1.5
537932	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.	0.94	7.02	3.58	25.3	570	2.1	0.4
537933	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.	1.80	10.81	3.79	32.4	535	3.5	1.1
537934	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.	3.05	587.4	4.43	11.7	673	7.1	0.6
537935	Soil	0.11	7.2	0.1	<0.05	<0.1	5.52	3.9	<0.02	<1	0.4	4.7	<10	<2	1.53	422.5	7.55	24.7	646	8.0	11.2
537936	Soil	0.06	10.9	0.2	<0.05	<0.1	0.36	2.1	<0.02	4	<0.1	<0.1	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537937	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.	0.82	9.59	8.65	29.6	497	3.7	2.0
537951	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.	3.46	18.16	5.09	17.9	466	2.2	0.4
537952	Soil	0.32	13.1	0.2	<0.05	0.3	3.04	3.1	<0.02	<1	0.2	13.1	12	<2	1.37	317.2	4.96	42.7	546	11.4	13.7
537953	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.	0.55	6.65	4.93	41.8	233	2.0	0.5
537954	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.	0.92	12.57	8.87	21.7	196	3.9	3.4
552003	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.	6.07	15.37	8.30	19.9	459	2.7	1.2
552004	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.	0.92	8.73	4.37	67.6	241	1.9	0.6
552005	Soil	0.40	7.8	0.2	<0.05	0.2	0.92	4.8	<0.02	<1	<0.1	2.1	<10	<2	3.74	19.78	7.31	41.5	395	6.1	4.3
552006	Soil	0.21	5.5	0.2	<0.05	<0.1	1.39	4.0	<0.02	2	0.1	1.6	<10	4	1.03	17.58	3.90	49.6	151	5.3	5.9
552007	Soil	0.31	10.1	0.2	<0.05	0.3	7.96	12.1	<0.02	3	0.4	9.8	<10	<2	5.89	98.00	3.56	44.7	161	12.8	15.1
552008	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.	1.17	483.5	2.96	13.9	947	5.4	2.5
552009	Soil	0.13	18.5	0.2	<0.05	<0.1	5.10	11.8	<0.02	2	0.3	3.5	<10	<2	9.27	71.21	20.76	51.6	1144	7.8	22.5
552010	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.	11.77	31.78	3.45	8.5	74	2.3	0.8
552011	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.	4.40	54.98	3.78	8.9	362	4.1	1.3
552012	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.	2.94	43.58	2.49	26.7	67	8.1	3.8
552013	Soil	0.27	5.5	0.2	<0.05	0.1	6.40	8.8	<0.02	2	0.5	5.2	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 8 of 11 Part 4

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method Analyte	1F Mn		1F Fe		1F As		1F U		1F Au		1F Th		1F Sr		1F Cd		1F Sb		1F Bi		1F V		1F Ca		1F P		1F La		1F Cr		1F Mg		1F Ba		1F Ti		1F B		1F Al		
	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Unit	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.5	0.001	20	0.01	0.5	0.001	20	0.01	0.5	0.001	20	0.01	0.5	0.001	20	0.01	0.5	0.001	20	0.01
MDL																																									
537923	Soil	213	0.06	<0.1	<0.1	<0.2	<0.1	55.8	0.40	0.06	0.03	<2	0.82	0.082	<0.5	3.6	0.08	54.2	0.002	<20	0.06																				
537924	Soil	4710	1.47	1.1	0.5	2.9	<0.1	93.9	0.70	0.17	0.17	38	0.85	0.084	8.3	11.1	0.26	349.6	0.023	<20	0.68																				
537925	Soil	276	0.61	0.5	0.5	3.7	<0.1	80.3	0.17	0.14	0.06	16	0.91	0.078	1.3	8.9	0.14	153.9	0.011	<20	0.25																				
537926	Soil	578	3.70	3.4	7.1	8.5	0.4	48.6	1.22	0.25	0.16	89	0.57	0.189	10.6	34.0	0.67	165.3	0.030	<20	1.45																				
537927	Soil	3881	0.46	0.4	<0.1	1.7	<0.1	23.2	0.21	0.14	0.06	14	0.47	0.143	0.8	7.9	0.09	184.4	0.005	<20	0.26																				
537928	Soil	362	0.10	0.4	<0.1	1.6	<0.1	19.1	0.14	0.07	0.04	2	0.37	0.125	<0.5	5.6	0.06	101.4	0.003	<20	0.09																				
537929	Soil	100	1.24	0.5	<0.1	0.5	<0.1	30.7	0.18	0.12	0.08	41	0.27	0.063	1.8	19.8	0.10	231.3	0.034	<20	0.32																				
537930	Soil	1330	0.06	0.3	<0.1	0.3	<0.1	9.2	0.10	0.05	0.02	<2	0.32	0.144	<0.5	3.3	0.05	68.6	0.003	<20	0.08																				
537931	Soil	2999	0.19	<0.1	<0.1	1.1	<0.1	28.3	0.22	0.11	0.11	5	0.84	0.123	<0.5	3.4	0.07	286.3	0.007	<20	0.11																				
537932	Soil	504	0.09	0.4	<0.1	0.7	<0.1	6.6	0.11	0.08	0.06	<2	0.25	0.105	<0.5	3.3	0.05	55.3	0.003	<20	0.06																				
537933	Soil	464	0.20	0.6	<0.1	0.5	<0.1	10.8	0.16	0.09	0.21	5	0.28	0.104	0.6	7.3	0.09	78.5	0.010	<20	0.11																				
537934	Soil	982	0.18	0.1	0.8	1.5	<0.1	90.8	1.02	0.62	0.06	5	2.13	0.131	8.5	4.2	0.09	120.8	0.002	<20	0.45																				
537935	Soil	2261	1.48	0.2	0.3	1.3	<0.1	117.2	0.76	0.49	0.06	57	2.32	0.104	2.8	21.2	0.39	209.0	0.020	<20	0.57																				
537936	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.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.		
537937	Soil	229	0.46	0.2	<0.1	1.3	<0.1	19.1	0.17	0.11	0.07	15	0.23	0.089	1.3	7.6	0.08	164.8	0.004	<20	0.30																				
537951	Soil	252	0.08	0.1	<0.1	<0.2	<0.1	32.3	0.48	0.08	0.04	<2	0.84	0.109	<0.5	2.9	0.06	108.4	0.002	<20	0.05																				
537952	Soil	488	2.44	0.5	0.3	3.0	<0.1	93.4	0.43	0.24	0.06	101	1.81	0.097	2.3	31.8	0.63	157.9	0.060	<20	0.89																				
537953	Soil	540	0.13	0.3	<0.1	1.5	<0.1	14.6	0.07	0.08	0.05	5	0.34	0.090	0.5	6.5	0.06	77.6	0.013	<20	0.17																				
537954	Soil	258	1.41	0.5	<0.1	0.2	<0.1	23.5	0.22	0.09	0.07	38	0.34	0.052	1.6	26.1	0.11	156.8	0.036	<20	0.31																				
552003	Soil	1032	0.20	0.5	<0.1	2.8	<0.1	61.3	0.43	0.09	0.08	7	0.78	0.116	1.9	4.6	0.07	87.2	0.014	<20	0.21																				
552004	Soil	465	0.13	0.3	<0.1	0.4	<0.1	31.8	0.56	0.07	0.03	2	0.62	0.116	<0.5	3.5	0.07	69.4	0.005	<20	0.18																				
552005	Soil	306	0.92	0.9	0.2	1.8	<0.1	51.6	0.16	0.15	0.11	27	0.49	0.090	1.9	11.3	0.21	229.0	0.026	<20	0.43																				
552006	Soil	1167	1.82	0.8	<0.1	1.2	<0.1	28.4	0.22	0.10	0.06	58	0.36	0.047	1.5	24.2	0.18	288.4	0.046	<20	0.45																				
552007	Soil	479	2.87	2.1	4.3	6.0	0.6	42.4	0.22	0.14	0.07	89	0.76	0.151	7.1	35.7	0.80	77.4	0.052	<20	1.26																				
552008	Soil	431	0.37	<0.1	1.1	5.5	<0.1	100.8	0.47	0.78	0.04	12	2.33	0.114	9.3	6.7	0.16	137.7	0.006	<20	0.45																				
552009	Soil	8142	1.23	0.9	1.0	1.6	<0.1	83.9	1.52	0.14	0.19	38	1.01	0.107	5.4	10.5	0.22	736.8	0.020	<20	0.60																				
552010	Soil	280	0.08	0.2	<0.1	0.2	<0.1	249.3	0.49	0.06	0.03	3	2.87	0.079	<0.5	2.6	0.12	134.7	0.001	<20	0.04																				
552011	Soil	475	0.18	<0.1	0.3	1.7	<0.1	272.9	1.14	0.23	0.03	6	3.24	0.094	1.0	4.1	0.16	173.5	0.003	<20	0.12																				
552012	Soil	367	2.21	1.2	0.5	5.5	0.1	177.2	0.17	0.20	0.03	21	1.95	0.104	2.2	9.7	0.24	144.2	0.010	<20	0.29																				
552013	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.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.			

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 8 of 11 Part 5

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
537923	Soil			0.006	0.07	<0.1	0.1	<0.02	0.16	171	0.3	<0.02	<0.1	0.09	<0.1	<0.02	0.03	4.4	<0.1	<0.05	<0.1	0.25	0.3
537924	Soil			0.009	0.08	0.2	0.7	0.08	0.08	115	0.6	0.09	3.4	0.80	<0.1	<0.02	0.27	15.4	0.2	<0.05	<0.1	5.49	14.6
537925	Soil			0.006	0.06	0.2	0.6	0.02	0.14	224	0.6	0.02	1.1	0.50	<0.1	<0.02	0.17	4.4	0.1	<0.05	0.2	1.00	2.0
537926	Soil			0.010	0.07	0.4	2.6	0.15	0.14	143	2.4	<0.02	4.2	2.03	<0.1	<0.02	0.43	14.9	0.2	<0.05	0.2	10.90	14.4
537927	Soil			0.009	0.12	0.2	0.1	0.19	0.10	204	0.3	<0.02	1.3	1.19	<0.1	<0.02	0.07	11.6	0.1	<0.05	<0.1	0.42	1.2
537928	Soil			0.009	0.10	<0.1	0.3	0.06	0.12	162	0.3	<0.02	0.2	0.25	<0.1	<0.02	0.04	7.7	<0.1	<0.05	0.1	0.17	0.4
537929	Soil			0.007	0.05	0.1	0.6	<0.02	0.05	81	0.3	0.04	2.0	0.33	<0.1	<0.02	0.19	6.3	0.2	<0.05	0.2	0.99	3.7
537930	Soil			0.007	0.12	<0.1	0.2	0.17	0.11	230	<0.1	<0.02	0.2	0.38	<0.1	<0.02	0.03	9.9	<0.1	<0.05	<0.1	0.12	0.3
537931	Soil			0.005	0.15	<0.1	0.7	0.17	0.10	319	0.1	0.02	0.5	0.53	<0.1	<0.02	0.04	13.9	0.1	<0.05	<0.1	0.21	0.5
537932	Soil			0.007	0.11	<0.1	0.4	0.06	0.13	171	0.1	0.02	0.2	0.25	<0.1	<0.02	0.04	7.5	0.1	<0.05	0.1	0.14	0.4
537933	Soil			0.010	0.12	<0.1	0.6	0.04	0.10	121	<0.1	<0.02	0.5	0.57	<0.1	<0.02	0.10	9.6	0.2	<0.05	<0.1	0.30	0.9
537934	Soil			0.007	0.08	<0.1	0.8	0.08	0.15	153	0.7	<0.02	0.4	0.29	0.2	<0.02	0.05	4.4	0.1	<0.05	0.1	9.17	5.9
537935	Soil			0.007	0.09	0.2	1.3	0.20	0.14	214	0.8	0.04	1.6	0.64	<0.1	<0.02	0.11	5.3	0.1	<0.05	<0.1	4.56	3.1
537936	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.
537937	Soil			0.007	0.07	0.1	0.5	0.03	0.07	107	0.1	<0.02	1.3	0.26	<0.1	<0.02	0.08	4.0	0.2	<0.05	<0.1	0.45	2.6
537951	Soil			0.006	0.10	<0.1	0.5	0.04	0.13	188	0.2	<0.02	0.2	0.18	<0.1	<0.02	0.03	4.5	<0.1	<0.05	0.2	0.20	0.5
537952	Soil			0.012	0.09	0.3	2.4	0.06	0.11	111	0.4	<0.02	3.3	1.54	<0.1	<0.02	0.28	12.1	0.1	<0.05	0.1	2.94	2.8
537953	Soil			0.014	0.11	<0.1	0.6	0.07	0.10	227	<0.1	<0.02	0.6	0.30	<0.1	<0.02	0.08	7.2	0.1	<0.05	<0.1	0.26	0.9
537954	Soil			0.013	0.06	<0.1	0.6	0.03	0.03	49	<0.1	<0.02	1.7	0.43	<0.1	<0.02	0.14	5.3	0.2	<0.05	<0.1	1.14	3.4
552003	Soil			0.008	0.13	<0.1	0.6	0.06	0.09	153	0.2	<0.02	1.1	0.18	<0.1	<0.02	0.21	4.5	0.2	<0.05	<0.1	1.05	2.0
552004	Soil			0.008	0.08	<0.1	0.6	0.05	0.14	240	0.2	<0.02	0.3	0.12	<0.1	<0.02	0.05	2.4	<0.1	<0.05	<0.1	0.17	0.5
552005	Soil			0.007	0.09	0.3	1.1	0.03	0.10	118	0.3	0.03	2.2	0.51	<0.1	<0.02	0.36	6.2	0.2	<0.05	0.2	0.84	3.4
552006	Soil			0.010	0.06	0.2	1.1	0.03	0.04	43	<0.1	<0.02	2.6	0.26	<0.1	<0.02	0.21	3.5	0.2	<0.05	<0.1	1.22	2.9
552007	Soil			0.013	0.10	0.4	3.6	0.07	0.07	56	0.6	0.04	3.7	0.87	<0.1	<0.02	0.25	9.3	<0.1	<0.05	<0.1	7.07	10.3
552008	Soil			0.012	0.06	0.2	2.4	0.11	0.18	183	1.1	<0.02	0.7	0.28	0.1	<0.02	0.08	4.3	<0.1	<0.05	0.4	19.45	3.8
552009	Soil			0.007	0.09	0.1	1.0	0.22	0.08	169	0.2	0.04	3.1	1.36	<0.1	<0.02	0.17	15.1	0.2	<0.05	<0.1	4.56	9.9
552010	Soil			0.007	0.07	<0.1	0.3	<0.02	0.18	113	0.3	<0.02	0.2	0.11	<0.1	<0.02	0.03	2.4	<0.1	<0.05	0.1	0.46	0.4
552011	Soil			0.011	0.05	<0.1	0.4	0.03	0.23	138	1.8	<0.02	0.4	0.11	<0.1	<0.02	0.06	1.6	<0.1	<0.05	0.3	1.64	1.2
552012	Soil			0.012	0.09	0.1	1.1	0.02	0.33	80	0.6	<0.02	0.9	0.22	<0.1	<0.02	0.14	5.9	<0.1	<0.05	0.3	2.37	3.6
552013	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.



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 Report Date: September 30, 2011

Page: 8 of 11 Part 6

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
				ppm	ppb	ppm	ppm	ppb	ppb
				0.02	1	0.1	0.1	10	2
537923	Soil			<0.02	<1	<0.1	0.2	<10	<2
537924	Soil			<0.02	1	0.2	3.7	<10	<2
537925	Soil			<0.02	1	<0.1	1.4	<10	3
537926	Soil			<0.02	3	0.4	8.6	<10	<2
537927	Soil			<0.02	<1	<0.1	0.5	<10	<2
537928	Soil			<0.02	<1	<0.1	0.2	<10	<2
537929	Soil			<0.02	<1	<0.1	0.5	<10	2
537930	Soil			<0.02	1	<0.1	<0.1	<10	<2
537931	Soil			<0.02	<1	<0.1	0.2	<10	<2
537932	Soil			<0.02	<1	<0.1	0.2	<10	<2
537933	Soil			<0.02	<1	<0.1	0.4	<10	<2
537934	Soil			<0.02	<1	0.2	0.4	10	<2
537935	Soil			<0.02	<1	<0.1	4.2	<10	<2
537936	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537937	Soil			<0.02	<1	<0.1	0.4	<10	<2
537951	Soil			<0.02	<1	<0.1	0.1	<10	<2
537952	Soil			<0.02	<1	0.1	11.6	16	<2
537953	Soil			<0.02	2	<0.1	0.4	<10	<2
537954	Soil			<0.02	<1	<0.1	0.6	<10	<2
552003	Soil			<0.02	<1	<0.1	0.3	<10	<2
552004	Soil			<0.02	<1	<0.1	0.2	<10	<2
552005	Soil			<0.02	<1	0.1	1.8	<10	<2
552006	Soil			<0.02	<1	<0.1	1.1	<10	<2
552007	Soil			<0.02	<1	0.3	9.0	<10	3
552008	Soil			<0.02	<1	0.1	0.8	<10	<2
552009	Soil			<0.02	<1	0.2	3.7	<10	<2
552010	Soil			<0.02	<1	<0.1	0.2	<10	<2
552011	Soil			<0.02	2	<0.1	0.5	<10	<2
552012	Soil			<0.02	2	0.1	2.0	<10	<2
552013	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.



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 Report Date: September 30, 2011

Page: 9 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	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	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
552014	Soil	0.98	16.88	6.43	57.0	466	7.7	5.9	962	1.95	2.6	0.4	4.4	0.4	29.8	0.14	0.32	0.10	43	0.43	0.126
552015	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.
552016	Soil	0.95	22.46	9.47	64.4	328	10.0	5.0	394	0.90	1.3	0.4	3.0	<0.1	30.4	0.34	0.25	0.12	18	0.24	0.132
552017	Soil	0.98	12.91	12.86	62.7	209	6.2	5.0	2368	1.39	1.7	0.2	4.5	<0.1	27.5	0.29	0.30	0.12	41	0.35	0.109
552018	Soil	0.80	12.65	11.16	51.1	1263	5.6	1.8	144	0.40	1.2	0.2	1.8	<0.1	25.3	0.19	0.13	0.09	10	0.20	0.144
552019	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.
552020	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.
552021	Soil	1.24	14.08	7.86	38.1	373	3.4	2.9	953	0.99	1.2	<0.1	2.0	<0.1	17.6	0.14	0.15	0.09	29	0.39	0.145
552022	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.
552023	Soil	1.72	28.13	5.41	28.5	722	5.7	4.2	475	1.95	1.1	0.1	7.4	<0.1	20.5	0.23	0.53	0.17	70	0.24	0.084
552024	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.
552025	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.
552026	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.
552027	Soil	2.05	84.87	5.39	51.3	241	13.6	11.6	430	2.39	1.4	3.9	10.9	0.7	45.9	0.15	0.24	0.17	65	0.81	0.140
552028	Soil	1.34	17.37	6.33	37.8	182	6.3	4.6	341	1.30	1.0	0.1	4.1	<0.1	22.4	0.14	0.25	0.14	38	0.29	0.123
552029	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.
552030	Soil	0.91	13.50	6.42	42.8	279	3.9	3.7	410	0.86	<0.1	0.1	2.1	<0.1	36.5	0.76	0.15	0.10	25	0.36	0.074
552031	Soil	1.91	8.36	9.66	41.5	950	2.2	4.6	1915	1.27	<0.1	0.1	5.3	<0.1	29.3	0.20	0.16	0.17	42	0.27	0.080
552032	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.
552033	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.
552034	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.
552035	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.
552036	Soil	6.17	249.5	41.42	21.8	1655	9.6	5.5	2998	0.97	<0.1	2.3	3.2	0.1	198.4	1.14	0.37	0.25	18	2.50	0.128
552037	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.
552038	Soil	3.19	21.92	7.11	13.5	320	3.5	2.8	137	1.06	<0.1	0.3	1.4	0.2	43.3	0.18	0.19	0.11	34	0.40	0.053
552039	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.
552040	Soil	4.75	45.06	7.45	37.0	433	11.9	12.5	820	1.98	0.4	1.1	4.8	0.5	60.0	0.80	0.29	0.11	51	0.84	0.096
552041	Soil	0.82	16.37	7.39	52.0	633	4.7	4.0	474	1.09	0.6	0.2	9.7	<0.1	20.0	0.14	0.28	0.09	29	0.20	0.128
552042	Soil	0.98	34.07	6.53	37.2	160	8.3	10.0	1107	2.93	1.6	0.2	7.0	0.3	21.2	0.11	0.36	0.12	86	0.22	0.060
552043	Soil	0.75	7.04	6.13	53.5	860	2.2	1.8	2142	0.60	0.1	<0.1	1.5	<0.1	17.8	0.19	0.14	0.07	21	0.37	0.128

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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 9 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000351.1

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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	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
552014	Soil	3.7	20.5	0.32	114.2	0.034	2	0.82	0.006	0.06	0.5	1.5	0.04	0.05	136	0.9	<0.02	3.8	0.78	<0.1	<0.02
552015	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.
552016	Soil	8.5	10.6	0.18	229.0	0.015	1	0.79	0.006	0.10	0.4	0.9	0.05	0.08	125	0.2	<0.02	2.5	0.47	<0.1	<0.02
552017	Soil	2.8	14.3	0.20	199.7	0.011	1	0.79	0.005	0.07	0.4	0.4	0.06	0.06	164	0.3	<0.02	3.7	0.60	<0.1	<0.02
552018	Soil	3.0	5.5	0.07	222.3	0.006	1	0.40	0.006	0.06	<0.1	0.2	0.03	0.08	158	0.7	<0.02	1.6	0.61	<0.1	<0.02
552019	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.
552020	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.
552021	Soil	1.0	10.7	0.09	105.0	0.010	3	0.27	0.006	0.11	0.2	0.3	0.06	0.09	144	0.3	<0.02	1.8	0.45	<0.1	<0.02
552022	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.
552023	Soil	2.6	18.5	0.10	191.8	0.008	5	0.66	0.008	0.06	0.3	0.6	0.07	<0.02	43	<0.1	<0.02	4.3	0.39	<0.1	<0.02
552024	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.
552025	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.
552026	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.
552027	Soil	8.6	31.1	0.73	217.5	0.041	4	1.37	0.010	0.10	0.4	3.7	0.05	0.14	94	1.2	<0.02	3.6	1.85	<0.1	<0.02
552028	Soil	2.5	13.9	0.19	154.2	0.013	<1	0.58	0.010	0.09	0.6	0.3	0.02	0.06	93	0.2	<0.02	2.7	0.55	<0.1	<0.02
552029	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.
552030	Soil	2.5	6.2	0.13	183.4	0.023	3	0.44	0.007	0.06	0.1	0.6	0.03	0.06	74	0.4	<0.02	2.8	0.39	<0.1	<0.02
552031	Soil	2.1	6.8	0.10	155.1	0.052	2	0.42	0.007	0.09	0.2	0.8	0.08	0.04	59	0.2	<0.02	3.3	0.63	<0.1	<0.02
552032	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.
552033	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.
552034	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.
552035	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.
552036	Soil	36.7	6.4	0.20	274.5	0.015	4	0.66	0.010	0.09	0.4	1.5	0.10	0.14	176	0.9	<0.02	2.3	0.60	<0.1	<0.02
552037	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.
552038	Soil	3.5	7.9	0.10	136.1	0.035	2	0.43	0.007	0.05	0.3	0.9	<0.02	0.05	95	0.3	<0.02	2.6	0.47	<0.1	0.02
552039	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.
552040	Soil	4.5	22.8	0.55	85.6	0.044	1	0.84	0.006	0.10	0.4	2.8	0.04	0.09	103	0.4	0.06	3.0	1.97	<0.1	<0.02
552041	Soil	2.1	8.0	0.16	176.3	0.011	3	0.65	0.009	0.07	0.2	0.6	0.02	0.08	111	0.2	0.02	2.4	0.56	<0.1	<0.02
552042	Soil	3.0	21.4	0.44	142.6	0.031	3	1.25	0.008	0.07	0.4	1.8	0.03	0.03	45	<0.1	0.13	4.6	0.86	<0.1	<0.02
552043	Soil	1.2	7.8	0.07	134.2	0.011	2	0.28	0.009	0.12	0.2	0.4	0.12	0.08	156	0.5	<0.02	1.9	0.54	<0.1	<0.02

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



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 9 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	
552014	Soil	0.48	14.2	0.2	<0.05	<0.1	1.78	7.6	<0.02	<1	0.2	5.7	<10	3	0.75	13.71	4.88	45.5	364	6.7	4.8
552015	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.	0.69	8.17	5.26	55.2	400	3.1	0.8
552016	Soil	0.26	5.5	0.2	<0.05	<0.1	4.85	17.3	<0.02	<1	0.2	2.2	<10	<2	0.75	19.44	7.64	55.7	261	8.9	4.4
552017	Soil	0.13	8.9	0.3	<0.05	<0.1	1.05	5.7	<0.02	<1	0.1	2.4	<10	<2	0.67	10.02	9.39	48.3	148	5.1	4.3
552018	Soil	0.07	5.2	0.2	<0.05	<0.1	0.84	5.8	<0.02	1	0.3	0.4	<10	2	0.74	12.22	9.81	49.7	1093	5.9	2.0
552019	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.	0.60	7.20	6.50	34.3	177	2.1	1.1
552020	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.	0.69	10.44	16.84	44.5	359	3.4	1.1
552021	Soil	0.09	10.8	0.2	<0.05	<0.1	0.44	2.0	<0.02	<1	<0.1	0.5	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552022	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.	12.72	470.5	2.08	31.9	364	7.8	5.9
552023	Soil	0.20	5.1	0.3	<0.05	<0.1	1.06	4.8	<0.02	<1	<0.1	0.7	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552024	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.	0.98	14.40	6.54	44.2	639	2.8	1.0
552025	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	9.68	10.61	43.7	165	3.3	1.6
552026	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.	0.64	8.69	7.52	40.1	273	2.3	1.1
552027	Soil	0.38	10.9	0.2	<0.05	0.3	8.61	12.5	<0.02	<1	0.2	10.5	<10	<2	2.01	88.47	5.64	51.3	235	14.7	12.0
552028	Soil	0.13	9.6	0.2	<0.05	<0.1	0.92	5.0	<0.02	<1	<0.1	1.5	<10	<2	1.11	17.66	6.03	36.2	163	5.3	3.9
552029	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.	1.69	26.98	7.56	68.1	171	6.7	11.0
552030	Soil	0.28	6.0	0.3	<0.05	<0.1	1.09	4.7	<0.02	<1	0.2	0.4	<10	<2	0.82	12.23	6.07	41.6	260	3.8	3.3
552031	Soil	0.31	11.1	0.3	<0.05	<0.1	1.07	4.6	<0.02	<1	<0.1	0.4	<10	4	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552032	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.	3.83	20.38	4.15	17.2	696	3.1	3.4
552033	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.	10.12	69.56	54.37	50.1	915	4.6	4.3
552034	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.	1.56	9.84	8.42	33.4	543	2.9	2.3
552035	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	9.41	8.79	25.7	785	2.2	1.7
552036	Soil	0.31	12.6	0.2	<0.05	0.2	42.46	30.1	<0.02	<1	0.6	1.9	<10	<2	5.23	228.3	39.35	19.9	1582	7.8	4.9
552037	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.	5.58	725.4	5.39	10.5	779	11.4	3.8
552038	Soil	0.57	8.6	0.3	<0.05	0.2	1.57	6.7	<0.02	<1	<0.1	1.1	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552039	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.	1.89	21.70	3.67	42.5	72	3.6	2.5
552040	Soil	0.43	31.7	0.1	<0.05	0.4	3.44	9.0	<0.02	<1	<0.1	7.2	<10	<2	4.37	44.90	6.98	32.5	369	11.3	11.6
552041	Soil	0.22	6.3	0.2	<0.05	<0.1	0.90	4.2	<0.02	<1	<0.1	1.4	<10	<2	0.75	15.77	6.69	49.3	609	3.6	3.3
552042	Soil	0.24	18.6	0.2	<0.05	<0.1	1.60	6.4	<0.02	<1	0.3	6.3	<10	<2	0.73	32.02	6.22	36.3	143	6.9	9.3
552043	Soil	0.06	12.7	0.2	<0.05	<0.1	0.43	2.5	<0.02	<1	<0.1	0.3	<10	<2	0.74	7.16	6.10	57.0	843	2.2	1.7

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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 9 of 11 Part 4

CERTIFICATE OF ANALYSIS

SMI11000351.1

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
552014	Soil	811	1.66	1.7	0.3	2.5	0.1	25.7	0.10	0.17	0.06	39	0.34	0.096	3.0	14.7	0.26	88.6	0.025	<20	0.79
552015	Soil	440	0.19	0.3	<0.1	0.8	<0.1	13.7	0.24	0.06	0.05	6	0.23	0.117	1.3	5.2	0.07	63.4	0.004	<20	0.26
552016	Soil	364	0.86	1.0	0.3	1.3	<0.1	27.3	0.25	0.14	0.10	18	0.22	0.100	7.1	10.0	0.18	180.7	0.011	<20	0.78
552017	Soil	2180	1.20	1.0	0.1	3.8	<0.1	23.2	0.23	0.15	0.08	38	0.30	0.083	2.1	10.8	0.18	148.3	0.010	<20	0.75
552018	Soil	145	0.36	0.7	0.1	0.2	<0.1	25.0	0.16	0.07	0.08	9	0.21	0.128	2.7	7.1	0.08	204.9	0.006	<20	0.45
552019	Soil	217	0.34	0.4	<0.1	0.5	<0.1	19.9	0.35	0.18	0.08	13	0.28	0.117	1.6	5.9	0.05	71.1	0.004	<20	0.31
552020	Soil	242	0.25	0.3	<0.1	<0.2	<0.1	22.4	0.41	0.07	0.08	9	0.25	0.084	1.6	6.2	0.06	190.5	0.005	<20	0.32
552021	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.
552022	Soil	1933	0.56	0.2	0.2	1.3	<0.1	120.2	0.79	0.18	0.03	13	2.67	0.134	1.9	9.8	0.20	117.3	0.005	<20	0.25
552023	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.
552024	Soil	692	0.31	0.4	<0.1	0.3	<0.1	8.4	0.17	0.10	0.05	8	0.27	0.111	0.6	4.0	0.07	56.2	0.004	<20	0.20
552025	Soil	206	0.52	0.7	<0.1	0.3	<0.1	20.1	0.28	0.09	0.06	16	0.26	0.087	1.4	6.6	0.06	159.1	0.004	<20	0.37
552026	Soil	496	0.36	0.3	<0.1	0.3	<0.1	16.5	0.34	0.07	0.05	9	0.32	0.109	1.2	4.7	0.06	197.5	0.004	<20	0.37
552027	Soil	434	2.40	1.7	4.0	6.2	0.4	43.7	0.13	0.14	0.11	68	0.84	0.130	8.5	32.0	0.74	199.0	0.039	<20	1.37
552028	Soil	317	1.23	1.2	0.1	2.7	<0.1	22.9	0.15	0.19	0.34	37	0.29	0.105	2.6	13.0	0.18	128.9	0.016	<20	0.57
552029	Soil	2728	0.69	0.7	0.4	2.7	<0.1	72.6	0.73	0.21	0.15	17	1.06	0.155	3.6	8.8	0.21	210.1	0.010	<20	0.47
552030	Soil	371	0.77	0.4	0.1	4.0	<0.1	37.2	0.68	0.09	0.50	24	0.35	0.062	2.4	6.9	0.14	162.3	0.021	<20	0.43
552031	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.
552032	Soil	96	0.76	0.6	0.3	4.2	<0.1	124.3	1.79	0.14	0.26	25	1.07	0.065	1.6	8.5	0.17	232.5	0.021	<20	0.31
552033	Soil	5091	0.55	0.4	2.5	1.9	0.1	124.5	1.25	0.35	0.28	8	1.45	0.131	28.4	4.7	0.09	746.4	0.003	<20	0.39
552034	Soil	383	0.78	0.5	0.2	13.2	<0.1	28.0	0.24	0.14	0.16	23	0.24	0.104	2.7	5.5	0.13	125.4	0.011	<20	0.41
552035	Soil	255	0.63	0.4	0.2	3.1	<0.1	23.5	0.13	0.10	0.15	19	0.19	0.088	3.3	5.2	0.12	81.3	0.005	<20	0.46
552036	Soil	2886	0.86	0.3	2.3	2.4	<0.1	177.1	1.18	0.29	0.27	19	2.44	0.118	40.1	6.4	0.19	238.1	0.009	<20	0.63
552037	Soil	825	0.20	<0.1	0.6	4.7	<0.1	166.6	1.52	0.35	0.08	6	2.79	0.111	8.5	3.8	0.10	142.8	0.002	<20	0.30
552038	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.
552039	Soil	403	0.72	0.4	1.2	4.5	<0.1	105.5	0.23	0.13	0.08	15	1.36	0.108	2.2	10.0	0.16	182.8	0.009	<20	0.33
552040	Soil	747	1.90	1.5	1.1	8.0	0.3	57.9	0.74	0.19	0.11	50	0.84	0.093	5.0	22.4	0.55	73.6	0.035	<20	0.84
552041	Soil	411	0.94	1.4	0.1	389.1	<0.1	18.0	0.12	0.17	0.13	25	0.17	0.099	2.0	7.4	0.15	141.3	0.007	<20	0.60
552042	Soil	985	2.51	1.6	0.2	4.7	0.1	20.2	0.10	0.06	0.12	74	0.21	0.052	2.9	18.6	0.40	130.9	0.018	<20	1.18
552043	Soil	2150	0.53	0.4	<0.1	1.3	<0.1	18.2	0.22	0.10	0.10	20	0.38	0.126	1.1	8.0	0.08	122.5	0.006	<20	0.28

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 9 of 11 Part 5

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
552014	Soil			0.006	0.06	0.2	1.3	0.03	0.05	99	0.1	<0.02	2.9	0.51	<0.1	<0.02	0.40	9.2	0.1	<0.05	<0.1	1.33	5.7
552015	Soil			0.009	0.12	0.1	0.4	0.04	0.09	102	0.2	<0.02	0.9	0.61	<0.1	<0.02	0.10	7.2	0.1	<0.05	<0.1	0.38	2.4
552016	Soil			0.006	0.09	0.3	0.8	0.04	0.07	100	0.1	<0.02	2.6	0.32	<0.1	<0.02	0.26	3.8	0.2	<0.05	<0.1	4.09	13.8
552017	Soil			0.006	0.07	0.2	0.7	0.06	0.06	107	0.1	<0.02	3.0	0.47	<0.1	<0.02	0.10	6.9	0.2	<0.05	2.6	0.86	4.0
552018	Soil			0.006	0.06	<0.1	0.5	0.03	0.07	149	0.2	<0.02	1.8	0.60	<0.1	<0.02	0.08	5.0	0.2	<0.05	<0.1	0.82	4.9
552019	Soil			0.008	0.11	<0.1	0.5	0.03	0.06	154	<0.1	0.02	2.0	0.45	<0.1	<0.02	0.08	10.4	0.3	<0.05	<0.1	0.41	2.9
552020	Soil			0.010	0.06	<0.1	0.5	0.03	0.07	81	0.2	<0.02	1.5	0.48	<0.1	<0.02	0.09	6.4	0.2	<0.05	<0.1	0.48	3.0
552021	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.
552022	Soil			0.012	0.07	<0.1	1.3	0.07	0.20	120	0.9	<0.02	0.7	0.51	<0.1	<0.02	0.05	4.5	<0.1	<0.05	0.1	7.00	2.1
552023	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.
552024	Soil			0.006	0.09	<0.1	0.3	0.04	0.09	137	0.2	<0.02	0.6	0.32	<0.1	<0.02	0.04	6.0	0.1	<0.05	<0.1	0.31	1.1
552025	Soil			0.008	0.07	<0.1	0.4	0.03	0.07	120	0.2	<0.02	1.2	0.21	<0.1	<0.02	0.08	4.2	0.2	<0.05	<0.1	0.61	2.2
552026	Soil			0.007	0.09	<0.1	0.5	0.06	0.07	187	0.3	<0.02	0.8	0.23	<0.1	<0.02	0.08	6.1	0.1	<0.05	<0.1	0.58	2.0
552027	Soil			0.011	0.10	0.3	3.2	0.07	0.14	118	0.9	0.03	3.8	1.60	<0.1	<0.02	0.43	9.9	0.1	<0.05	0.2	8.78	12.2
552028	Soil			0.010	0.08	0.2	0.3	0.05	0.05	85	0.3	<0.02	2.7	0.45	<0.1	<0.02	0.22	8.6	0.3	<0.05	<0.1	1.08	5.1
552029	Soil			0.010	0.16	0.1	0.5	0.11	0.14	172	0.3	<0.02	1.9	0.55	<0.1	<0.02	0.21	6.5	0.2	<0.05	<0.1	2.54	7.6
552030	Soil			0.006	0.06	<0.1	0.3	0.05	0.06	75	0.2	<0.02	3.0	0.27	<0.1	<0.02	0.38	5.0	0.3	<0.05	<0.1	1.17	4.4
552031	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.
552032	Soil			0.011	0.05	0.2	0.6	0.05	0.13	153	0.3	0.04	1.6	0.49	<0.1	<0.02	0.24	4.4	0.3	<0.05	0.4	0.93	2.0
552033	Soil			0.007	0.13	0.1	0.6	0.12	0.14	262	0.4	0.04	1.3	1.13	<0.1	<0.02	0.16	11.9	0.2	<0.05	0.1	23.83	37.3
552034	Soil			0.008	0.09	0.1	0.2	0.05	0.07	80	0.2	<0.02	2.2	0.49	<0.1	<0.02	0.26	10.4	0.3	<0.05	0.2	1.31	4.3
552035	Soil			0.008	0.08	0.1	0.1	0.06	0.04	80	0.1	<0.02	2.7	0.47	<0.1	<0.02	0.16	8.2	0.3	<0.05	<0.1	1.23	6.0
552036	Soil			0.010	0.08	0.2	1.1	0.10	0.14	155	0.6	<0.02	2.2	0.48	<0.1	<0.02	0.27	11.2	0.2	<0.05	0.2	42.98	28.8
552037	Soil			0.017	0.07	<0.1	0.3	0.12	0.21	166	1.8	<0.02	0.4	0.12	<0.1	<0.02	0.07	3.0	0.1	<0.05	0.4	13.86	3.6
552038	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.
552039	Soil			0.009	0.06	0.2	0.6	0.05	0.18	273	0.5	<0.02	1.2	0.40	<0.1	<0.02	0.16	4.2	0.1	<0.05	0.1	1.97	2.9
552040	Soil			0.007	0.09	0.2	1.9	0.06	0.09	78	0.5	<0.02	3.0	1.51	<0.1	<0.02	0.43	28.7	0.2	<0.05	0.5	3.49	8.8
552041	Soil			0.009	0.06	0.2	0.3	0.05	0.08	83	0.3	<0.02	2.4	0.50	<0.1	<0.02	0.19	6.2	0.2	<0.05	<0.1	0.87	3.7
552042	Soil			0.008	0.06	0.2	1.6	0.06	0.03	46	0.1	<0.02	4.5	0.48	<0.1	<0.02	0.23	15.0	0.2	<0.05	<0.1	1.65	5.5
552043	Soil			0.008	0.11	0.1	0.1	0.13	0.08	151	<0.1	<0.02	2.0	0.45	<0.1	<0.02	0.09	12.4	0.2	<0.05	<0.1	0.43	2.0

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Project: Aug 12, 2011 Shipment
Report Date: September 30, 2011

Page: 9 of 11 Part 6

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F In ppm	1F Re ppb	1F Be ppm	1F Li ppm	1F Pd ppb	1F Pt ppb
				0.02	1	0.1	0.1	10	2
552014	Soil			<0.02	<1	0.1	4.6	<10	<2
552015	Soil			<0.02	<1	<0.1	0.3	<10	<2
552016	Soil			<0.02	<1	0.4	1.9	<10	<2
552017	Soil			<0.02	<1	0.1	2.1	<10	<2
552018	Soil			<0.02	<1	0.2	0.5	<10	<2
552019	Soil			<0.02	<1	<0.1	0.3	<10	<2
552020	Soil			<0.02	<1	<0.1	0.3	<10	<2
552021	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552022	Soil			<0.02	10	<0.1	1.1	<10	<2
552023	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552024	Soil			<0.02	<1	<0.1	0.4	<10	<2
552025	Soil			<0.02	<1	<0.1	0.4	<10	<2
552026	Soil			<0.02	<1	<0.1	0.2	<10	<2
552027	Soil			<0.02	1	0.4	9.8	<10	<2
552028	Soil			<0.02	<1	<0.1	1.7	<10	<2
552029	Soil			<0.02	<1	<0.1	1.8	<10	<2
552030	Soil			<0.02	<1	<0.1	0.8	<10	<2
552031	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552032	Soil			<0.02	<1	<0.1	1.3	<10	<2
552033	Soil			<0.02	<1	0.4	1.6	<10	<2
552034	Soil			<0.02	1	<0.1	1.4	<10	<2
552035	Soil			<0.02	<1	<0.1	0.8	<10	<2
552036	Soil			<0.02	<1	0.6	2.1	<10	<2
552037	Soil			<0.02	<1	0.2	0.4	<10	<2
552038	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552039	Soil			<0.02	<1	<0.1	1.4	<10	<2
552040	Soil			<0.02	<1	0.2	6.7	<10	<2
552041	Soil			<0.02	<1	0.1	2.0	<10	<2
552042	Soil			<0.02	<1	0.2	6.7	<10	<2
552043	Soil			<0.02	<1	<0.1	0.4	<10	<2



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Page: 10 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	%	%
				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
552044	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.
552045	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.
552046	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.
552047	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.
552048	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.
552049	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.
552050	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.
552160	Soil			0.63	42.25	5.43	33.8	699	4.3	4.0	421	0.81	<0.1	0.1	<0.2	<0.1	29.3	0.27	0.05	0.05	12	0.37	0.158
552161	Soil			1.54	101.7	6.69	66.9	155	6.6	15.8	1715	2.06	<0.1	0.1	2.1	0.1	40.9	0.10	0.11	0.19	77	0.72	0.163
552162	Soil			2.71	7.52	4.24	29.3	433	3.7	2.3	345	0.26	<0.1	<0.1	1.1	<0.1	36.4	0.10	0.08	0.03	7	0.51	0.137
552163	Soil			5.09	8.23	3.58	11.8	313	6.0	3.1	259	0.21	<0.1	<0.1	1.2	<0.1	59.3	0.75	0.15	0.03	5	1.04	0.101
552164	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.
552165	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.
552166	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.
552167	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.
552168	Soil			3.02	161.2	3.88	71.4	350	16.8	21.5	930	3.67	1.3	1.9	9.6	0.2	104.4	0.23	0.16	0.25	136	1.27	0.211
552169	Soil			1.94	300.0	3.22	11.9	864	7.1	2.3	576	0.53	<0.1	2.2	5.2	0.2	237.1	0.63	0.94	0.12	14	2.49	0.158
552170	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.
552171	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.
552172	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.
552173	Soil			7.51	11.13	6.76	29.1	92	5.6	12.4	2067	1.83	0.5	0.2	1.9	0.2	27.3	0.27	0.11	0.07	60	0.45	0.096
552174	Soil			0.80	9.25	12.45	22.0	268	2.7	1.7	256	0.45	0.3	0.2	0.9	<0.1	16.8	0.21	0.13	0.10	11	0.24	0.082
552175	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.
552176	Soil			3.69	21.15	7.07	28.4	119	3.2	2.3	267	0.42	0.2	1.7	0.9	0.3	72.9	0.53	0.13	0.09	11	1.01	0.097
552177	Soil			3.63	103.9	3.88	58.6	102	9.6	12.2	584	2.47	0.7	9.2	5.7	1.3	73.2	0.21	0.12	0.10	67	1.07	0.150
552178	Soil			1.79	33.01	4.74	38.0	133	4.0	4.9	999	0.82	0.5	2.0	2.0	0.3	38.0	0.16	0.10	0.07	20	0.71	0.119
552179	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.
552180	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.
552181	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.
552182	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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 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 10 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	
552044	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.	
552045	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.	
552046	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.	
552047	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.	
552048	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.	
552049	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.	
552050	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.	
552160	Soil	2.0	9.9	0.19	394.8	0.004	1	0.50	0.009	0.12	0.1	0.4	0.03	0.09	122	0.5	<0.02	1.1	0.46	<0.1	<0.02
552161	Soil	1.9	5.5	0.76	53.5	0.091	3	1.05	0.005	0.32	0.3	1.2	0.04	0.10	141	0.4	0.15	3.0	1.35	<0.1	<0.02
552162	Soil	0.6	3.0	0.09	234.5	0.014	3	0.16	0.007	0.12	1.7	0.6	0.03	0.13	206	0.8	<0.02	0.7	0.33	<0.1	<0.02
552163	Soil	<0.5	4.2	0.12	162.2	0.006	3	0.09	0.010	0.08	1.9	0.5	<0.02	0.16	153	<0.1	0.02	0.2	0.17	<0.1	0.02
552164	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.
552165	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.
552166	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.
552167	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.
552168	Soil	7.9	48.7	1.62	114.2	0.047	3	1.82	0.002	0.21	0.2	4.1	0.08	0.07	83	0.8	0.12	6.1	1.27	<0.1	<0.02
552169	Soil	14.6	6.3	0.21	124.0	0.006	7	0.62	0.009	0.04	0.1	1.3	0.12	0.25	181	2.8	<0.02	0.7	0.22	0.2	<0.02
552170	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.
552171	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.
552172	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.
552173	Soil	1.0	17.9	0.38	165.9	0.050	1	0.53	0.006	0.12	0.4	1.2	0.04	0.07	109	0.1	0.02	3.3	0.78	<0.1	<0.02
552174	Soil	1.3	5.3	0.08	127.5	0.010	2	0.28	0.006	0.08	0.1	0.3	0.03	0.06	88	0.2	<0.02	1.2	0.48	<0.1	<0.02
552175	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.
552176	Soil	1.6	3.5	0.11	74.0	0.012	2	0.23	0.005	0.10	0.2	0.6	<0.02	0.17	156	0.5	<0.02	0.7	0.31	<0.1	<0.02
552177	Soil	9.9	19.4	0.85	105.2	0.048	1	1.53	0.005	0.16	0.9	2.2	0.06	0.08	106	0.5	0.03	4.4	1.71	<0.1	<0.02
552178	Soil	2.1	8.4	0.23	154.3	0.019	2	0.44	0.005	0.10	0.3	0.8	0.08	0.12	240	0.3	0.03	1.4	0.49	<0.1	<0.02
552179	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.
552180	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.
552181	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.
552182	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.



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 10 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	
552044	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.	0.69	12.79	6.01	17.8	410	4.1	3.1
552045	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.	0.85	8.25	3.85	38.8	1186	2.2	0.7
552046	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.	4.01	218.0	6.99	32.6	512	8.4	1.9
552047	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.	1.14	9.55	2.53	25.4	123	1.8	0.3
552048	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.	0.86	12.28	5.22	26.0	242	2.4	0.7
552049	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.	0.85	8.42	8.05	36.6	1349	1.8	0.8
552050	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.	3.25	682.0	5.32	13.1	253	3.7	2.2
552160	Soil	0.04	8.4	<0.1	<0.05	<0.1	1.57	4.3	<0.02	<1	<0.1	0.8	<10	<2	0.63	41.10	5.71	33.8	691	3.9	3.8
552161	Soil	0.22	33.2	<0.1	<0.05	0.2	2.44	4.2	<0.02	<1	<0.1	7.4	<10	<2	1.53	106.8	6.84	65.8	151	5.9	15.8
552162	Soil	0.07	8.3	<0.1	<0.05	<0.1	0.33	1.0	<0.02	<1	<0.1	<0.1	<10	<2	2.51	7.65	4.34	30.1	426	3.4	2.4
552163	Soil	0.05	4.5	<0.1	<0.05	0.3	0.28	0.7	<0.02	<1	<0.1	0.2	<10	<2	4.72	8.70	3.81	13.7	305	5.9	3.3
552164	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.	1.12	6.72	3.78	56.6	595	1.9	2.4
552165	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.	1.09	9.58	7.25	34.0	369	2.0	1.7
552166	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.	2.18	16.98	6.30	39.6	703	3.7	4.3
552167	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.	1.33	15.26	5.79	42.7	584	3.5	4.1
552168	Soil	0.22	31.2	0.2	<0.05	0.3	11.04	10.5	0.02	2	0.4	15.8	11	<2	2.84	178.1	4.06	77.0	386	17.7	22.6
552169	Soil	0.09	4.4	0.2	<0.05	0.4	13.60	5.4	<0.02	<1	0.2	1.2	<10	<2	1.92	295.2	3.37	11.6	845	7.0	2.5
552170	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.	3.14	69.40	1.92	20.0	122	3.4	5.7
552171	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.	3.74	40.72	4.16	31.9	123	3.1	8.8
552172	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.	6.82	10.00	3.85	39.1	25	1.9	1.0
552173	Soil	0.28	19.7	0.2	<0.05	<0.1	0.71	2.0	<0.02	<1	<0.1	2.1	<10	<2	7.37	11.46	6.47	28.8	91	5.5	11.5
552174	Soil	0.11	6.0	0.2	<0.05	<0.1	0.53	2.4	<0.02	<1	<0.1	0.5	<10	<2	0.79	9.80	12.91	20.0	287	3.5	1.6
552175	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.	3.93	12.06	5.26	19.6	134	4.2	3.9
552176	Soil	0.11	6.7	0.2	<0.05	0.1	1.12	2.1	<0.02	<1	<0.1	1.1	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552177	Soil	0.57	18.5	0.2	<0.05	0.2	6.97	12.8	<0.02	<1	0.5	12.2	<10	<2	3.27	102.2	3.60	52.7	107	9.6	12.0
552178	Soil	0.18	4.9	0.2	<0.05	<0.1	1.59	3.5	<0.02	<1	<0.1	2.3	<10	<2	1.68	33.63	4.53	34.4	114	4.4	4.4
552179	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.	1.67	17.63	5.19	40.6	224	3.4	4.1
552180	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.	1.21	6.93	3.25	42.8	324	1.4	0.8
552181	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	7.03	4.32	34.9	428	1.8	1.3
552182	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.	0.90	11.38	3.44	26.8	170	1.7	0.4

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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 10 of 11 Part 4

CERTIFICATE OF ANALYSIS

SMI11000351.1

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
552044	Soil	98	1.64	0.2	<0.1	40.4	<0.1	34.3	0.14	0.09	0.10	57	0.32	0.037	3.7	19.6	0.13	144.0	0.040	<20	0.47
552045	Soil	749	0.20	0.1	<0.1	0.9	<0.1	9.7	0.13	0.10	0.05	6	0.29	0.135	<0.5	5.4	0.07	51.8	0.008	<20	0.09
552046	Soil	2645	0.19	0.1	0.2	1.1	<0.1	120.6	1.53	0.34	0.08	10	2.35	0.098	3.9	4.1	0.11	291.4	0.004	<20	0.26
552047	Soil	67	0.06	0.2	<0.1	0.7	<0.1	18.7	0.18	0.07	0.06	<2	0.43	0.070	<0.5	3.3	0.08	72.2	0.001	<20	0.04
552048	Soil	128	0.08	0.1	<0.1	0.9	<0.1	11.0	0.18	0.04	0.05	<2	0.33	0.116	<0.5	3.6	0.07	70.2	0.002	<20	0.06
552049	Soil	276	0.11	0.2	<0.1	0.4	<0.1	22.9	0.37	0.08	0.07	<2	0.43	0.096	<0.5	3.0	0.04	131.8	0.003	<20	0.06
552050	Soil	306	0.28	0.2	0.3	0.9	<0.1	73.6	0.81	0.14	0.06	8	1.20	0.089	5.7	3.7	0.06	151.8	0.004	<20	0.24
552160	Soil	412	0.79	0.2	0.1	0.9	<0.1	30.6	0.33	0.05	0.08	13	0.36	0.121	2.3	9.1	0.18	375.0	0.002	<20	0.46
552161	Soil	1708	1.97	0.4	0.1	2.2	<0.1	38.2	0.18	0.08	0.19	75	0.70	0.164	2.0	5.1	0.76	48.9	0.064	<20	1.04
552162	Soil	341	0.22	<0.1	<0.1	0.5	<0.1	35.6	0.12	0.08	0.07	6	0.52	0.136	0.5	3.6	0.09	227.4	0.008	<20	0.14
552163	Soil	244	0.20	0.1	<0.1	<0.2	<0.1	60.1	0.82	0.08	0.05	5	1.04	0.106	0.5	4.4	0.12	162.5	0.005	<20	0.09
552164	Soil	3066	0.01	0.1	<0.1	0.8	<0.1	75.2	0.22	0.07	0.05	<2	1.21	0.171	<0.5	3.9	0.08	173.5	0.003	<20	0.07
552165	Soil	472	0.47	<0.1	<0.1	1.0	<0.1	34.2	1.12	0.08	0.06	12	0.38	0.104	0.8	4.7	0.05	108.6	0.005	<20	0.12
552166	Soil	738	0.75	0.4	<0.1	1.1	<0.1	58.8	0.22	0.14	0.09	27	0.61	0.111	1.0	9.4	0.24	106.3	0.024	<20	0.35
552167	Soil	1841	0.71	0.4	<0.1	0.8	<0.1	70.4	0.23	0.12	0.06	22	0.88	0.119	0.7	10.9	0.23	188.2	0.016	<20	0.25
552168	Soil	932	3.88	1.1	2.0	84.5	0.2	117.7	0.25	0.07	0.21	146	1.40	0.210	8.9	50.7	1.65	118.0	0.075	<20	1.93
552169	Soil	561	0.53	<0.1	2.1	4.2	<0.1	235.3	0.68	0.81	0.06	14	2.50	0.164	15.3	7.0	0.21	118.0	0.003	<20	0.61
552170	Soil	2635	4.50	0.4	0.4	2.5	<0.1	221.9	0.22	0.09	0.04	42	2.11	0.144	1.4	6.1	0.23	174.1	0.004	<20	0.17
552171	Soil	1897	2.02	0.4	0.3	1.4	<0.1	195.0	0.18	0.17	0.05	7	2.09	0.170	0.8	5.2	0.15	150.5	<0.001	<20	0.13
552172	Soil	1371	0.70	0.2	<0.1	1.2	<0.1	95.6	0.18	0.09	0.04	3	2.27	0.094	<0.5	4.9	0.18	173.2	0.001	<20	0.05
552173	Soil	1904	1.94	0.6	0.2	2.9	0.1	36.0	0.33	0.16	0.09	64	0.51	0.096	1.1	18.3	0.46	166.9	0.070	<20	0.57
552174	Soil	245	0.46	<0.1	0.1	67.3	<0.1	23.0	0.20	0.09	0.09	12	0.28	0.072	1.7	6.3	0.10	134.3	0.007	<20	0.30
552175	Soil	209	0.21	0.2	0.3	0.7	<0.1	70.5	0.33	0.11	0.05	6	0.75	0.108	0.8	8.2	0.13	63.6	0.008	<20	0.16
552176	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.
552177	Soil	519	2.62	0.9	8.5	9.6	1.2	82.1	0.20	0.11	0.10	73	1.05	0.140	10.1	18.5	0.86	98.6	0.068	<20	1.58
552178	Soil	936	0.84	0.4	2.0	11.3	0.1	43.9	0.14	0.09	0.06	21	0.74	0.114	2.3	8.6	0.27	145.9	0.020	<20	0.46
552179	Soil	198	0.65	0.3	0.5	2.9	<0.1	38.5	0.32	0.07	0.08	21	0.59	0.096	1.2	7.4	0.22	68.7	0.024	<20	0.34
552180	Soil	816	0.11	<0.1	<0.1	<0.2	<0.1	27.4	0.27	0.07	0.03	<2	0.82	0.127	<0.5	4.0	0.07	105.2	0.005	<20	0.06
552181	Soil	271	0.16	<0.1	<0.1	<0.2	<0.1	29.2	0.22	0.08	0.04	4	0.45	0.126	<0.5	5.0	0.07	119.0	0.007	<20	0.09
552182	Soil	203	0.07	<0.1	<0.1	0.2	<0.1	106.0	0.77	0.08	0.03	<2	1.16	0.093	<0.5	3.9	0.12	102.0	0.002	<20	0.06

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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 10 of 11 Part 5

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
552044	Soil			0.009	0.04	<0.1	0.5	0.03	0.02	16	<0.1	<0.02	3.6	0.27	<0.1	<0.02	0.20	5.7	0.4	<0.05	0.1	1.67	7.2
552045	Soil			0.009	0.11	<0.1	0.1	0.10	0.12	186	0.1	<0.02	0.4	0.44	<0.1	<0.02	0.07	9.4	0.2	<0.05	<0.1	0.19	0.6
552046	Soil			0.009	0.08	0.1	0.5	0.15	0.13	162	0.4	<0.02	0.5	0.24	<0.1	<0.02	0.05	4.3	0.2	<0.05	0.1	4.99	2.4
552047	Soil			0.010	0.06	<0.1	0.1	<0.02	0.13	99	<0.1	<0.02	0.1	0.07	<0.1	<0.02	0.04	2.7	0.2	<0.05	0.3	0.15	0.4
552048	Soil			0.008	0.10	<0.1	0.1	0.02	0.10	131	0.2	<0.02	0.1	0.31	<0.1	<0.02	0.02	7.1	0.1	<0.05	0.1	0.15	0.4
552049	Soil			0.009	0.11	<0.1	0.2	0.02	0.08	159	0.1	<0.02	0.3	0.23	<0.1	<0.02	0.03	6.2	0.2	<0.05	0.1	0.16	0.7
552050	Soil			0.007	0.06	0.2	0.3	0.02	0.16	94	0.5	<0.02	0.8	0.30	<0.1	<0.02	0.10	4.4	0.2	<0.05	0.2	6.58	5.4
552160	Soil			0.010	0.11	<0.1	<0.1	0.04	0.09	125	0.2	<0.02	1.2	0.43	<0.1	<0.02	0.09	8.3	0.1	<0.05	<0.1	1.67	4.1
552161	Soil			0.008	0.32	0.2	1.1	0.07	0.09	149	<0.1	0.14	3.0	1.33	<0.1	<0.02	0.15	34.9	0.1	<0.05	0.1	2.42	3.9
552162	Soil			0.007	0.10	1.8	<0.1	0.04	0.13	235	0.2	<0.02	0.6	0.31	<0.1	<0.02	0.07	9.0	0.1	<0.05	<0.1	0.32	0.8
552163	Soil			0.009	0.07	1.8	0.2	<0.02	0.16	168	0.2	<0.02	0.3	0.18	<0.1	<0.02	0.05	4.9	0.2	<0.05	0.1	0.31	0.6
552164	Soil			0.007	0.14	<0.1	0.2	0.06	0.14	258	0.2	<0.02	0.2	0.36	<0.1	<0.02	0.03	7.8	0.1	<0.05	0.1	0.16	0.4
552165	Soil			0.008	0.11	<0.1	0.1	0.05	0.10	140	0.2	<0.02	0.6	0.56	<0.1	<0.02	0.07	10.6	0.1	<0.05	<0.1	0.34	1.5
552166	Soil			0.008	0.08	0.1	0.7	0.07	0.12	290	0.2	<0.02	1.8	0.67	<0.1	<0.02	0.15	8.0	0.2	<0.05	0.1	0.66	1.5
552167	Soil			0.007	0.10	0.1	0.5	0.12	0.13	289	<0.1	<0.02	1.2	0.47	<0.1	<0.02	0.09	6.4	0.1	<0.05	<0.1	0.50	1.0
552168	Soil			0.008	0.21	0.1	4.6	0.09	0.07	62	0.8	0.09	6.0	1.31	<0.1	<0.02	0.19	31.3	0.2	<0.05	0.2	11.30	11.1
552169	Soil			0.009	0.04	<0.1	0.4	0.12	0.23	181	2.0	<0.02	0.7	0.20	0.2	<0.02	0.08	4.3	<0.1	<0.05	0.2	12.76	5.0
552170	Soil			0.022	0.06	<0.1	0.4	0.07	0.24	80	0.3	<0.02	0.6	0.18	<0.1	<0.02	0.04	4.5	<0.1	<0.05	<0.1	2.41	1.0
552171	Soil			0.027	0.09	<0.1	0.2	0.07	0.32	114	0.4	<0.02	0.2	0.10	<0.1	<0.02	0.03	3.3	0.1	<0.05	<0.1	1.39	0.6
552172	Soil			0.014	0.07	<0.1	<0.1	<0.02	0.23	125	0.3	<0.02	0.1	0.07	<0.1	<0.02	0.02	0.9	0.1	<0.05	0.1	0.28	0.3
552173	Soil			0.009	0.12	0.3	1.4	0.03	0.05	75	0.1	0.03	3.6	0.79	<0.1	<0.02	0.29	19.9	0.2	<0.05	0.1	0.95	2.0
552174	Soil			0.005	0.08	<0.1	0.2	<0.02	0.06	81	0.2	<0.02	1.2	0.45	<0.1	<0.02	0.13	5.2	0.2	<0.05	<0.1	0.68	2.9
552175	Soil			0.009	0.10	0.1	0.4	0.02	0.14	100	0.4	0.03	0.6	0.34	<0.1	<0.02	0.08	8.5	0.1	<0.05	0.1	0.57	1.1
552176	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.
552177	Soil			0.007	0.16	0.7	2.5	0.05	0.08	78	0.7	0.04	4.6	1.74	<0.1	<0.02	0.52	16.7	0.2	<0.05	0.3	6.99	12.1
552178	Soil			0.005	0.10	0.4	0.7	0.06	0.12	200	0.3	<0.02	1.6	0.43	<0.1	<0.02	0.20	4.6	<0.1	<0.05	<0.1	1.67	3.4
552179	Soil			0.007	0.09	0.4	0.7	<0.02	0.10	77	0.4	<0.02	1.7	0.42	<0.1	<0.02	0.26	4.6	0.1	<0.05	0.1	0.78	1.8
552180	Soil			0.005	0.12	<0.1	0.5	0.04	0.13	210	0.2	0.03	0.3	0.24	<0.1	<0.02	0.03	3.6	<0.1	<0.05	<0.1	0.16	0.4
552181	Soil			0.008	0.13	<0.1	0.5	0.02	0.12	148	<0.1	<0.02	0.4	0.31	<0.1	<0.02	0.07	6.2	0.1	<0.05	<0.1	0.23	0.7
552182	Soil			0.005	0.08	<0.1	0.3	<0.02	0.14	139	0.4	<0.02	0.1	0.12	<0.1	<0.02	0.03	3.0	<0.1	<0.05	<0.1	0.43	0.4



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Project: Aug 12, 2011 Shipment
Report Date: September 30, 2011

Page: 10 of 11 Part 6

CERTIFICATE OF ANALYSIS

SMI11000351.1

Method	Analyte	Unit	MDL	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
				ppm	ppb	ppm	ppm	ppb	ppb
				0.02	1	0.1	0.1	10	2
552044	Soil			<0.02	<1	<0.1	0.8	<10	4
552045	Soil			<0.02	1	<0.1	0.3	<10	<2
552046	Soil			<0.02	<1	0.1	0.3	<10	<2
552047	Soil			<0.02	<1	<0.1	0.2	<10	<2
552048	Soil			<0.02	<1	<0.1	0.1	<10	<2
552049	Soil			<0.02	<1	<0.1	0.2	<10	<2
552050	Soil			<0.02	<1	0.2	0.7	<10	<2
552160	Soil			<0.02	<1	0.2	0.8	<10	<2
552161	Soil			<0.02	<1	<0.1	6.4	<10	<2
552162	Soil			<0.02	<1	<0.1	0.3	<10	<2
552163	Soil			<0.02	<1	<0.1	0.3	<10	<2
552164	Soil			<0.02	<1	<0.1	0.2	<10	<2
552165	Soil			<0.02	<1	<0.1	0.2	<10	<2
552166	Soil			<0.02	<1	<0.1	1.6	<10	<2
552167	Soil			<0.02	1	<0.1	1.2	<10	<2
552168	Soil			<0.02	1	0.4	16.1	11	4
552169	Soil			<0.02	<1	0.4	1.1	<10	<2
552170	Soil			<0.02	<1	<0.1	1.3	<10	<2
552171	Soil			<0.02	<1	<0.1	0.2	<10	<2
552172	Soil			<0.02	<1	<0.1	0.3	<10	2
552173	Soil			0.03	<1	<0.1	2.5	<10	4
552174	Soil			<0.02	1	0.2	0.6	<10	<2
552175	Soil			<0.02	2	0.1	0.4	<10	2
552176	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552177	Soil			<0.02	<1	0.4	12.6	<10	<2
552178	Soil			<0.02	2	0.2	2.4	<10	3
552179	Soil			<0.02	<1	<0.1	2.1	<10	<2
552180	Soil			<0.02	1	0.1	0.2	<10	<2
552181	Soil			<0.02	3	0.1	0.3	<10	2
552182	Soil			<0.02	<1	<0.1	<0.1	<10	3



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 Report Date: September 30, 2011

Page: 11 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	
552183	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.
552184	Soil	1.30	31.09	7.91	16.9	412	2.8	2.6	1163	0.29	0.3	0.3	0.8	0.2	350.1	0.73	0.35	0.14	8	2.15	0.207
552185	Soil	0.96	35.81	13.46	12.2	217	2.8	1.5	451	0.33	0.4	0.3	1.3	0.2	326.6	0.79	0.27	0.10	9	1.96	0.179
552186	Soil	0.64	9.75	5.40	27.3	751	1.8	1.6	59	0.48	0.5	<0.1	0.9	<0.1	51.7	0.53	0.11	0.07	12	0.31	0.137
552187	Soil	1.00	6.40	3.56	42.3	1160	1.8	1.6	817	0.23	0.3	<0.1	3.8	<0.1	23.6	0.17	0.07	0.04	6	0.40	0.152
552188	Soil	0.64	5.04	2.09	12.8	107	0.9	0.3	57	0.06	0.1	<0.1	0.2	<0.1	79.7	0.08	0.06	0.03	<2	0.50	0.085
552189	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.
552190	Soil	1.03	6.88	5.35	39.9	128	1.1	0.6	133	0.18	0.2	<0.1	1.0	<0.1	214.0	0.24	0.08	0.05	5	0.89	0.104
552191	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.
552192	Soil	2.10	9.31	4.38	32.5	542	1.6	1.6	356	0.28	0.2	<0.1	0.3	<0.1	21.0	0.36	0.11	0.04	7	0.50	0.121
552193	Soil	1.44	63.90	5.54	47.3	634	4.2	3.4	3791	0.40	0.4	0.2	0.8	<0.1	89.5	0.48	0.17	0.04	5	1.68	0.152
552194	Soil	1.11	7.06	4.07	23.2	186	1.0	0.4	332	0.07	0.3	<0.1	0.8	<0.1	10.6	0.23	0.09	0.03	<2	0.38	0.118
552195	Soil	0.95	6.25	6.77	40.5	398	1.5	1.4	4048	0.25	<0.1	<0.1	1.4	<0.1	13.3	0.11	0.10	0.05	4	0.42	0.142
552196	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.
552197	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.
1115086	Soil	0.23	12.11	7.63	18.3	471	6.0	4.9	60	0.57	<0.1	<0.1	17.8	<0.1	27.6	0.21	0.06	0.14	16	0.21	0.061



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

Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 11 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	
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	
552183	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.	
552184	Soil	4.0	2.7	0.16	143.6	0.005	2	0.40	0.005	0.11	0.2	1.0	0.07	0.17	194	0.3	<0.02	0.8	0.50	0.1	<0.02
552185	Soil	2.1	2.8	0.14	106.1	0.006	2	0.34	0.008	0.09	0.1	1.0	0.04	0.23	159	0.4	<0.02	0.8	0.63	<0.1	0.03
552186	Soil	0.8	4.3	0.05	114.6	0.006	<1	0.24	0.006	0.08	<0.1	0.4	<0.02	0.11	134	0.2	<0.02	0.9	0.39	<0.1	<0.02
552187	Soil	<0.5	2.8	0.08	98.5	0.009	<1	0.16	0.005	0.15	<0.1	0.5	0.08	0.11	193	0.2	<0.02	0.6	0.83	<0.1	<0.02
552188	Soil	<0.5	2.0	0.05	32.5	0.002	1	0.03	0.005	0.07	<0.1	0.6	<0.02	0.16	104	0.2	<0.02	0.1	0.11	<0.1	<0.02
552189	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.
552190	Soil	<0.5	1.9	0.06	115.7	0.007	3	0.07	0.005	0.10	<0.1	0.4	0.02	0.13	177	<0.1	<0.02	0.3	0.40	<0.1	<0.02
552191	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.
552192	Soil	<0.5	3.0	0.07	52.5	0.008	<1	0.10	0.008	0.10	<0.1	0.6	0.04	0.11	245	0.1	<0.02	0.4	0.41	<0.1	<0.02
552193	Soil	4.1	4.0	0.13	227.4	0.006	3	0.36	0.007	0.08	<0.1	1.0	0.10	0.14	232	0.1	<0.02	0.4	0.47	0.1	<0.02
552194	Soil	<0.5	1.0	0.07	80.1	0.002	<1	0.05	0.008	0.11	<0.1	0.3	0.04	0.13	146	<0.1	<0.02	0.1	0.27	<0.1	<0.02
552195	Soil	0.6	2.8	0.08	135.4	0.012	<1	0.12	0.007	0.15	<0.1	0.5	0.16	0.10	184	0.2	<0.02	0.5	0.46	<0.1	<0.02
552196	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.
552197	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.
1115086	Soil	1.3	25.1	0.22	171.1	0.005	<1	0.39	0.004	0.03	<0.1	0.2	<0.02	0.04	43	0.1	<0.02	2.0	0.73	<0.1	<0.02



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 11 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	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
552183	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.	2.74	48.35	4.69	8.4	482	3.3	3.0
552184	Soil	0.09	9.9	0.2	<0.05	0.3	3.91	5.2	<0.02	2	<0.1	0.7	<10	<2	1.23	32.75	13.51	16.2	465	2.7	2.5
552185	Soil	0.13	7.7	0.2	<0.05	0.4	2.22	2.7	<0.02	<1	0.2	0.6	<10	<2	0.92	39.04	13.03	11.7	205	3.1	1.5
552186	Soil	0.06	4.8	0.1	<0.05	<0.1	0.39	1.5	<0.02	<1	0.1	0.2	<10	<2	0.72	10.43	5.41	27.9	731	2.4	1.7
552187	Soil	0.05	11.7	<0.1	<0.05	<0.1	0.20	0.6	<0.02	<1	<0.1	0.2	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552188	Soil	0.04	4.0	<0.1	<0.05	0.2	0.09	0.2	<0.02	<1	<0.1	<0.1	<10	<2	0.79	5.51	2.21	12.7	103	1.2	0.4
552189	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.	1.80	14.88	2.50	26.4	53	1.5	0.5
552190	Soil	0.06	4.8	<0.1	<0.05	0.2	0.18	0.6	<0.02	<1	<0.1	0.2	<10	<2	1.03	7.41	5.72	38.5	129	1.5	0.6
552191	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.	5.61	15.83	5.03	27.2	154	2.3	2.0
552192	Soil	0.04	8.2	0.1	<0.05	<0.1	0.24	0.7	<0.02	<1	<0.1	0.2	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552193	Soil	0.05	6.0	<0.1	<0.05	0.2	5.03	11.0	<0.02	<1	<0.1	0.4	<10	<2	1.30	63.88	5.11	41.9	562	4.3	3.2
552194	Soil	0.03	6.4	<0.1	<0.05	0.1	0.09	0.5	<0.02	<1	<0.1	0.1	<10	<2	1.35	8.83	4.01	23.5	189	1.1	0.6
552195	Soil	0.08	9.1	0.1	<0.05	<0.1	0.27	1.1	<0.02	<1	<0.1	0.2	<10	<2	1.22	7.34	7.32	44.5	436	1.7	1.5
552196	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.	1.60	12.13	9.81	32.9	817	2.2	1.4
552197	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.	0.88	8.66	5.30	73.9	327	1.7	1.2
1115086	Soil	0.03	3.7	0.1	<0.05	<0.1	0.87	2.7	<0.02	<1	<0.1	1.8	<10	<2	0.21	12.03	6.93	19.9	407	6.0	4.9



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 11 of 11 Part 4

CERTIFICATE OF ANALYSIS

SMI11000351.1

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
552183	Soil	892	0.18	0.3	0.3	0.3	<0.1	308.6	0.87	0.36	0.03	13	2.10	0.108	4.7	5.2	0.16	158.6	0.002	<20	0.43
552184	Soil	1160	0.28	0.9	0.6	<0.2	0.1	397.1	0.97	0.45	0.13	9	2.12	0.192	5.4	4.3	0.18	202.4	0.004	<20	0.40
552185	Soil	465	0.33	0.5	0.3	<0.2	0.1	337.5	0.72	0.30	0.07	9	1.99	0.178	2.2	5.5	0.17	113.7	0.005	<20	0.37
552186	Soil	67	0.44	0.6	<0.1	<0.2	<0.1	61.1	0.61	0.08	0.04	12	0.34	0.126	1.0	6.2	0.07	122.5	0.002	<20	0.27
552187	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.
552188	Soil	61	0.07	0.3	<0.1	<0.2	<0.1	89.0	0.09	0.05	<0.02	<2	0.54	0.091	<0.5	4.6	0.06	34.3	0.002	<20	0.04
552189	Soil	126	0.09	<0.1	<0.1	0.8	<0.1	419.4	0.07	0.07	<0.02	<2	2.00	0.062	<0.5	4.8	0.17	70.0	0.001	<20	0.05
552190	Soil	137	0.18	0.4	<0.1	<0.2	<0.1	223.5	0.27	0.08	0.04	4	0.93	0.108	<0.5	4.6	0.07	112.2	0.008	<20	0.08
552191	Soil	120	0.20	0.4	0.7	<0.2	<0.1	65.4	0.55	0.10	0.03	5	0.72	0.084	1.1	5.2	0.10	59.6	0.009	<20	0.16
552192	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.
552193	Soil	3857	0.39	0.2	0.3	0.4	<0.1	96.0	0.48	0.14	0.03	8	1.68	0.142	3.8	6.2	0.14	213.4	0.004	<20	0.36
552194	Soil	382	0.09	0.3	<0.1	<0.2	<0.1	12.6	0.30	0.07	<0.02	<2	0.43	0.122	<0.5	4.2	0.08	89.6	0.004	<20	0.06
552195	Soil	4230	0.26	<0.1	<0.1	<0.2	<0.1	19.7	0.14	0.12	0.05	7	0.51	0.149	0.8	6.1	0.09	145.9	0.012	<20	0.14
552196	Soil	239	0.15	0.5	<0.1	<0.2	<0.1	29.4	0.31	0.11	0.05	3	0.38	0.096	0.5	5.0	0.06	180.7	0.008	<20	0.10
552197	Soil	954	0.18	0.1	<0.1	<0.2	<0.1	15.1	0.17	0.07	0.02	4	0.31	0.172	<0.5	4.9	0.07	118.0	0.005	<20	0.13
1115086	Soil	76	0.63	0.1	<0.1	5.0	<0.1	36.3	0.21	0.05	0.13	20	0.24	0.050	1.5	26.4	0.27	173.0	0.009	<20	0.48



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 11 of 11 Part 5

CERTIFICATE OF ANALYSIS

SMI11000351.1

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	
552183	Soil	0.008	0.10	<0.1	0.3	0.05	0.22	128	0.8	0.05	0.4	0.09	0.4	<0.02	0.05	3.5	<0.1	<0.05	0.3	4.55	5.1
552184	Soil	0.005	0.11	0.2	0.6	0.10	0.17	309	0.5	0.11	0.8	0.54	0.2	<0.02	0.09	9.3	0.2	<0.05	0.1	4.13	6.3
552185	Soil	0.007	0.09	<0.1	0.7	0.03	0.22	126	0.7	0.03	0.9	0.52	<0.1	<0.02	0.13	6.5	0.2	<0.05	0.2	2.05	2.3
552186	Soil	0.005	0.08	<0.1	0.2	<0.02	0.11	144	0.3	<0.02	1.1	0.33	<0.1	<0.02	0.08	4.5	0.2	<0.05	<0.1	0.46	1.4
552187	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.
552188	Soil	0.005	0.07	<0.1	0.3	<0.02	0.16	96	0.3	<0.02	0.1	0.12	<0.1	<0.02	<0.02	3.8	<0.1	<0.05	<0.1	0.11	0.2
552189	Soil	0.010	0.05	<0.1	0.2	<0.02	0.50	64	0.7	<0.02	0.1	0.07	<0.1	<0.02	0.02	1.9	<0.1	<0.05	<0.1	0.18	0.1
552190	Soil	0.005	0.11	<0.1	0.5	<0.02	0.12	185	0.3	0.03	0.3	0.37	<0.1	<0.02	0.07	4.9	0.1	<0.05	0.2	0.19	0.6
552191	Soil	0.006	0.09	0.2	0.5	<0.02	0.14	130	0.3	<0.02	0.6	0.21	<0.1	<0.02	0.12	4.8	0.1	<0.05	0.1	0.69	1.5
552192	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.
552193	Soil	0.008	0.08	<0.1	0.4	0.09	0.14	236	0.6	<0.02	0.6	0.41	<0.1	<0.02	0.04	5.4	<0.1	<0.05	<0.1	4.81	9.9
552194	Soil	0.006	0.11	<0.1	0.7	0.04	0.12	118	0.4	<0.02	0.2	0.31	<0.1	<0.02	0.04	7.1	0.1	<0.05	<0.1	0.13	0.4
552195	Soil	0.006	0.15	<0.1	0.4	0.16	0.10	169	0.1	<0.02	0.8	0.48	<0.1	<0.02	0.08	9.9	0.2	<0.05	<0.1	0.40	1.5
552196	Soil	0.009	0.09	<0.1	0.6	<0.02	0.09	164	0.4	<0.02	0.3	0.37	<0.1	<0.02	0.06	9.0	0.1	<0.05	0.1	0.21	0.8
552197	Soil	0.005	0.16	<0.1	0.4	0.07	0.12	228	0.2	<0.02	0.4	0.46	<0.1	<0.02	0.04	15.8	<0.1	<0.05	<0.1	0.17	0.5
1115086	Soil	0.003	0.03	<0.1	0.3	<0.02	0.04	32	0.2	<0.02	2.2	0.71	<0.1	<0.02	0.06	3.9	0.1	<0.05	<0.1	0.91	3.0



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Project: Aug 12, 2011 Shipment
Report Date: September 30, 2011

Page: 11 of 11 Part 6

CERTIFICATE OF ANALYSIS

SMI11000351.1

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
552183	Soil	<0.02	2	<0.1	0.3	<10	3
552184	Soil	<0.02	<1	0.2	0.5	<10	<2
552185	Soil	<0.02	2	<0.1	1.1	<10	3
552186	Soil	<0.02	<1	0.1	0.3	<10	<2
552187	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552188	Soil	<0.02	<1	<0.1	0.1	<10	5
552189	Soil	<0.02	<1	<0.1	0.1	<10	<2
552190	Soil	<0.02	<1	<0.1	0.2	<10	<2
552191	Soil	<0.02	<1	<0.1	0.6	<10	2
552192	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552193	Soil	<0.02	<1	0.1	0.5	<10	3
552194	Soil	<0.02	1	0.1	0.1	<10	4
552195	Soil	<0.02	<1	<0.1	0.2	<10	<2
552196	Soil	<0.02	1	<0.1	0.2	<10	2
552197	Soil	<0.02	<1	<0.1	0.2	<10	3
1115086	Soil	<0.02	<1	0.2	2.1	<10	<2



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Page: 1 of 4 Part 1

QUALITY CONTROL REPORT

SMI11000351.1

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	
Pulp Duplicates																					
540920	Soil	0.71	10.08	10.15	39.6	1484	3.7	2.0	276	0.49	<0.1	0.1	2.2	<0.1	19.2	0.33	0.13	0.24	13	0.17	0.094
REP 540920	QC																				
1115051	Soil	0.42	8.01	8.51	19.6	254	2.4	0.8	83	0.25	<0.1	0.1	8.3	<0.1	36.9	0.34	0.08	0.13	8	0.17	0.052
REP 1115051	QC	0.37	7.87	8.03	17.3	227	2.0	0.8	79	0.23	0.4	0.1	11.9	<0.1	36.0	0.31	0.11	0.10	7	0.17	0.049
1115134	Soil	1.07	7.45	2.68	11.0	279	2.3	0.6	45	0.25	<0.1	0.1	1.4	<0.1	22.6	0.27	0.06	0.04	8	0.27	0.038
REP 1115134	QC	1.08	7.67	2.95	12.5	301	2.6	1.0	49	0.29	<0.1	0.1	<0.2	<0.1	23.7	0.32	0.09	0.05	8	0.29	0.041
541918	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 541918	QC																				
541922	Soil	1.08	7.68	9.11	24.0	1272	2.6	1.4	316	0.54	1.8	0.1	1.5	<0.1	19.6	0.22	0.08	0.16	14	0.17	0.051
REP 541922	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541929	Soil	1.03	70.94	4.63	9.9	402	6.5	2.9	214	0.57	<0.1	0.2	1.1	<0.1	96.1	0.70	0.20	0.07	18	1.91	0.083
REP 541929	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541934	Soil	0.81	8.00	8.69	17.5	575	3.0	3.4	812	1.02	0.8	0.1	0.7	<0.1	24.0	0.18	0.10	0.07	33	0.26	0.047
REP 541934	QC																				
541947	Soil	0.79	7.29	4.94	73.2	317	1.7	0.7	1051	0.07	0.5	<0.1	5.2	<0.1	36.8	0.16	0.13	0.18	<2	0.77	0.126
REP 541947	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540923	Soil	1.58	47.94	5.40	27.0	259	7.0	10.2	1542	0.65	0.3	0.2	1.5	<0.1	69.1	1.23	0.29	0.04	14	2.60	0.174
REP 540923	QC	1.49	48.05	5.13	26.4	264	6.6	10.6	1537	0.64	0.2	0.2	1.9	<0.1	68.8	1.20	0.29	0.04	14	2.59	0.170
540935	Soil	1.40	135.9	17.22	38.3	421	25.1	15.7	2589	2.44	1.9	0.4	1.1	0.2	42.4	0.81	0.24	0.19	91	1.70	0.067
REP 540935	QC																				
1115071	Soil	1.80	31.74	5.98	33.7	307	14.3	10.9	461	2.05	3.0	<0.1	0.8	0.1	19.4	0.26	0.16	0.10	77	0.67	0.068
REP 1115071	QC	1.85	32.02	6.10	34.2	292	15.1	10.6	453	2.10	2.3	<0.1	<0.2	0.1	19.5	0.26	0.17	0.16	77	0.66	0.066
1115073	Soil	1.00	177.7	3.55	66.5	694	25.2	19.7	837	3.88	3.3	0.7	3.8	0.2	44.5	0.37	0.15	0.10	134	1.45	0.149
REP 1115073	QC	0.96	173.8	3.43	63.1	694	25.1	19.2	828	3.78	3.7	0.6	5.4	0.2	43.2	0.35	0.16	0.09	132	1.41	0.143
1115088	Soil	0.25	12.47	5.11	16.6	1246	10.8	5.1	62	0.82	0.8	<0.1	7.2	<0.1	33.2	0.24	0.08	0.17	22	0.22	0.134
REP 1115088	QC																				
1115092	Soil	0.28	5.89	6.39	13.2	340	4.5	3.6	94	0.89	0.6	<0.1	16.6	<0.1	32.1	0.05	0.12	0.11	39	0.20	0.030
REP 1115092	QC	0.27	5.82	6.36	14.2	350	4.6	3.4	91	0.89	0.2	<0.1	9.1	<0.1	31.5	0.06	0.11	0.04	39	0.18	0.031

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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 1 of 4 Part 2

QUALITY CONTROL REPORT

SMI11000351.1

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																					
540920	Soil	2.5	6.4	0.06	190.0	0.007	2	0.35	0.009	0.07	0.1	0.3	0.09	0.06	102	<0.1	<0.02	1.9	0.43	<0.1	<0.02
REP 540920	QC																				
1115051	Soil	4.1	3.4	0.04	215.5	0.009	2	0.25	0.010	0.05	<0.1	0.4	0.07	0.03	43	<0.1	<0.02	1.4	0.93	<0.1	<0.02
REP 1115051	QC	3.8	3.5	0.04	201.4	0.008	2	0.25	0.009	0.05	0.1	0.3	0.06	0.03	51	<0.1	<0.02	1.3	0.87	<0.1	<0.02
1115134	Soil	3.3	6.3	0.04	129.2	0.012	2	0.15	0.008	0.05	<0.1	0.6	0.02	0.04	67	<0.1	0.03	0.9	0.42	<0.1	<0.02
REP 1115134	QC	3.4	6.9	0.04	143.0	0.012	2	0.16	0.009	0.05	<0.1	0.6	0.03	0.05	71	<0.1	0.04	0.9	0.42	<0.1	<0.02
541918	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 541918	QC																				
541922	Soil	4.0	6.5	0.07	154.2	0.008	<1	0.37	0.007	0.05	<0.1	0.2	0.04	0.03	85	0.2	<0.02	2.4	0.41	<0.1	<0.02
REP 541922	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541929	Soil	1.7	7.3	0.18	179.4	0.011	2	0.34	0.010	0.09	0.4	1.0	0.02	0.13	115	0.5	<0.02	1.3	0.29	<0.1	<0.02
REP 541929	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541934	Soil	1.6	11.4	0.12	199.8	0.031	<1	0.33	0.008	0.06	0.1	0.5	0.04	0.03	67	0.2	0.03	2.5	0.31	<0.1	<0.02
REP 541934	QC																				
541947	Soil	<0.5	3.6	0.07	200.9	0.003	3	0.06	0.008	0.10	<0.1	0.7	0.06	0.12	314	0.3	<0.02	0.2	0.19	<0.1	<0.02
REP 541947	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540923	Soil	1.5	12.5	0.24	138.0	0.010	4	0.37	0.007	0.12	<0.1	0.8	0.09	0.33	110	1.3	<0.02	1.0	3.46	<0.1	<0.02
REP 540923	QC	1.4	11.9	0.24	139.2	0.010	3	0.37	0.007	0.12	<0.1	0.7	0.08	0.34	107	1.2	<0.02	1.0	3.39	<0.1	<0.02
540935	Soil	2.6	74.8	1.38	95.0	0.063	2	1.66	<0.001	0.07	0.2	3.7	0.07	0.08	134	0.4	<0.02	5.7	7.10	<0.1	<0.02
REP 540935	QC																				
1115071	Soil	0.9	52.0	0.77	191.0	0.088	<1	1.03	0.006	0.06	0.3	2.3	0.06	0.09	250	0.2	<0.02	4.1	8.20	<0.1	<0.02
REP 1115071	QC	1.0	53.6	0.74	194.4	0.088	<1	0.99	0.006	0.05	0.2	1.8	0.06	0.09	233	0.2	0.05	4.2	8.46	0.1	<0.02
1115073	Soil	4.1	108.7	1.71	156.1	0.078	<1	2.38	0.001	0.17	0.2	6.7	0.12	0.11	41	1.0	0.02	6.4	29.32	<0.1	<0.02
REP 1115073	QC	4.0	106.7	1.71	157.9	0.076	<1	2.36	0.001	0.17	0.1	6.7	0.11	0.10	47	1.1	<0.02	6.5	29.08	<0.1	<0.02
1115088	Soil	2.2	26.7	0.25	132.4	0.002	<1	0.66	0.005	0.03	<0.1	0.1	0.03	0.05	68	0.2	<0.02	3.2	2.17	<0.1	<0.02
REP 1115088	QC																				
1115092	Soil	2.3	17.7	0.29	69.4	0.090	<1	0.59	0.004	0.02	0.1	1.4	0.03	<0.02	32	0.2	<0.02	4.6	0.49	<0.1	<0.02
REP 1115092	QC	2.3	17.0	0.29	70.5	0.086	<1	0.60	0.004	0.02	0.1	1.3	0.03	<0.02	50	0.3	<0.02	4.4	0.49	<0.1	<0.02

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 1 of 4 Part 3

QUALITY CONTROL REPORT

SMI11000351.1

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																							
540920	Soil			0.08	8.3	0.2	<0.05	<0.1	0.76	4.6	<0.02	<1	0.2	0.4	<10	<2	0.60	9.74	10.39	40.4	1495	3.3	1.9
REP 540920	QC																0.63	10.34	10.49	41.4	1608	3.5	2.0
1115051	Soil			0.09	7.6	0.2	<0.05	<0.1	0.68	7.5	<0.02	<1	<0.1	0.3	<10	<2	0.30	6.88	8.06	17.3	204	1.9	0.7
REP 1115051	QC			0.10	7.5	0.2	<0.05	<0.1	0.63	7.1	<0.02	<1	0.1	0.4	<10	<2							
1115134	Soil			0.12	2.5	0.1	<0.05	<0.1	0.59	6.2	<0.02	<1	<0.1	0.3	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 1115134	QC			0.13	3.0	0.1	<0.05	<0.1	0.62	6.4	<0.02	<1	<0.1	0.2	<10	<2							
541918	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.	5.42	15.10	12.46	48.1	928	2.3	1.8
REP 541918	QC																5.77	14.28	11.97	48.0	963	2.2	1.9
541922	Soil			0.13	5.0	0.3	<0.05	<0.1	0.80	8.2	<0.02	2	<0.1	0.9	<10	<2	0.91	8.06	10.51	25.6	1229	2.3	1.1
REP 541922	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
541929	Soil			0.19	5.9	0.1	<0.05	0.3	2.96	3.3	<0.02	<1	<0.1	0.7	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 541929	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
541934	Soil			0.20	4.9	0.3	<0.05	<0.1	1.02	3.2	<0.02	3	<0.1	0.5	<10	<2	0.67	8.11	8.96	17.8	518	3.0	3.5
REP 541934	QC																0.77	8.84	10.05	19.2	596	3.0	3.6
541947	Soil			<0.02	4.6	0.2	<0.05	<0.1	0.11	0.5	<0.02	1	<0.1	0.2	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 541947	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
540923	Soil			0.17	11.6	0.1	<0.05	0.6	1.90	2.5	<0.02	<1	0.1	2.3	<10	<2	1.10	44.55	4.40	24.1	225	6.6	10.2
REP 540923	QC			0.17	11.2	<0.1	<0.05	0.6	1.84	2.3	<0.02	<1	<0.1	2.3	<10	<2							
540935	Soil			0.33	8.8	0.3	<0.05	0.1	2.54	5.1	<0.02	<1	0.2	14.3	<10	<2	1.11	121.3	14.16	33.7	380	23.5	14.0
REP 540935	QC																1.01	116.9	12.98	34.2	335	23.6	15.3
1115071	Soil			0.51	9.1	0.2	<0.05	0.2	0.85	2.0	<0.02	<1	<0.1	9.9	<10	<2	1.72	32.64	6.10	31.8	320	13.5	9.9
REP 1115071	QC			0.46	9.4	0.2	<0.05	<0.1	0.88	2.1	<0.02	<1	<0.1	9.6	<10	2							
1115073	Soil			0.48	27.7	0.1	<0.05	0.2	9.20	5.9	<0.02	<1	0.4	21.3	<10	2	0.98	178.5	3.58	63.4	634	23.9	17.4
REP 1115073	QC			0.48	27.7	0.2	<0.05	0.2	9.08	5.8	<0.02	<1	0.3	20.8	<10	<2							
1115088	Soil			0.05	12.6	0.2	<0.05	<0.1	1.54	4.2	<0.02	<1	0.2	1.9	<10	<2	0.19	11.20	4.44	15.2	1040	10.2	4.8
REP 1115088	QC																0.19	10.65	4.37	14.4	1013	9.4	4.4
1115092	Soil			0.43	3.5	0.3	<0.05	<0.1	1.55	4.4	<0.02	<1	<0.1	1.7	<10	<2	0.29	6.11	6.27	15.4	318	6.1	3.4
REP 1115092	QC			0.46	3.4	0.3	<0.05	0.1	1.53	4.4	<0.02	<1	<0.1	1.8	<10	<2							

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 1 of 4 Part 4

QUALITY CONTROL REPORT

SMI11000351.1

Method	Analyte	1F Mn	1F Fe	1F As	1F U	1F Au	1F Th	1F Sr	1F Cd	1F Sb	1F Bi	1F V	1F Ca	1F P	1F La	1F Cr	1F Mg	1F Ba	1F Ti	1F B	1F Al
Unit	MDL	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
Pulp Duplicates		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
540920	Soil	273	0.46	0.4	<0.1	1.4	<0.1	18.1	0.35	0.09	0.11	11	0.16	0.088	1.9	6.1	0.06	184.0	0.003	<20	0.34
REP 540920	QC	279	0.43	0.5	<0.1	3.8	<0.1	18.6	0.40	0.09	0.11	10	0.17	0.093	1.9	5.7	0.06	184.3	0.002	<20	0.34
1115051	Soil	76	0.21	0.4	<0.1	1.1	<0.1	35.2	0.32	0.05	0.07	6	0.15	0.040	3.1	2.5	0.03	203.6	0.002	<20	0.22
REP 1115051	QC																				
1115134	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 1115134	QC																				
541918	Soil	348	0.51	0.4	<0.1	0.5	<0.1	66.7	1.37	0.12	0.11	12	0.55	0.093	1.2	3.6	0.08	211.9	0.011	<20	0.16
REP 541918	QC	381	0.51	0.4	<0.1	1.5	<0.1	63.4	1.30	0.12	0.11	12	0.48	0.094	1.2	3.6	0.07	206.6	0.011	<20	0.15
541922	Soil	307	0.52	0.5	0.1	1.1	<0.1	21.0	0.27	0.09	0.14	14	0.16	0.050	3.8	5.7	0.08	152.6	0.006	<20	0.38
REP 541922	QC																				
541929	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 541929	QC																				
541934	Soil	802	0.93	0.5	<0.1	3.4	<0.1	20.2	0.17	0.11	0.05	28	0.23	0.047	1.3	10.0	0.12	204.1	0.020	<20	0.32
REP 541934	QC	826	0.84	0.7	<0.1	1.0	<0.1	21.7	0.16	0.10	0.11	26	0.25	0.052	1.4	9.6	0.13	222.2	0.020	<20	0.35
541947	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 541947	QC																				
540923	Soil	1511	0.57	0.5	0.2	0.3	<0.1	69.9	1.13	0.25	0.05	13	2.51	0.155	1.2	11.5	0.24	130.6	0.007	<20	0.35
REP 540923	QC																				
540935	Soil	2361	2.19	1.0	0.3	1.1	0.1	44.1	0.77	0.16	0.13	87	1.59	0.062	2.1	63.4	1.20	87.6	0.063	<20	1.46
REP 540935	QC	2307	2.34	1.2	0.3	<0.2	0.1	42.6	0.66	0.17	0.13	91	1.51	0.055	2.1	70.2	1.31	80.4	0.068	<20	1.58
1115071	Soil	451	1.91	0.6	<0.1	<0.2	<0.1	22.3	0.28	0.15	0.16	71	0.68	0.075	0.8	44.3	0.68	215.4	0.086	<20	0.90
REP 1115071	QC																				
1115073	Soil	818	3.70	1.0	0.7	2.2	0.1	50.0	0.41	0.13	0.10	127	1.36	0.162	4.1	98.9	1.64	164.9	0.090	<20	2.28
REP 1115073	QC																				
1115088	Soil	63	0.73	0.4	<0.1	2.2	<0.1	39.2	0.21	0.07	0.14	22	0.25	0.090	1.9	24.5	0.23	116.0	0.002	<20	0.68
REP 1115088	QC	61	0.71	0.4	<0.1	4.2	<0.1	38.5	0.20	0.07	0.14	21	0.24	0.089	1.9	23.3	0.22	115.3	0.002	<20	0.67
1115092	Soil	105	0.92	0.2	<0.1	5.1	<0.1	45.8	0.06	0.13	0.13	43	0.26	0.035	2.3	19.7	0.32	76.9	0.119	<20	0.72
REP 1115092	QC																				

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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 1 of 4 Part 5

QUALITY CONTROL REPORT

SMI11000351.1

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																					
540920	Soil	0.008	0.07	<0.1	0.2	0.05	0.06	125	0.1	<0.02	1.7	0.31	<0.1	<0.02	0.07	7.4	0.2	<0.05	<0.1	0.67	3.3
REP 540920	QC	0.008	0.07	<0.1	0.2	0.05	0.06	131	0.2	<0.02	1.7	0.31	<0.1	<0.02	0.11	7.7	0.3	<0.05	<0.1	0.71	3.2
1115051	Soil	0.008	0.04	<0.1	0.1	0.02	0.03	58	<0.1	<0.02	1.2	0.65	<0.1	<0.02	0.07	6.8	0.2	<0.05	<0.1	0.53	5.1
REP 1115051	QC																				
1115134	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 1115134	QC																				
541918	Soil	0.012	0.08	<0.1	0.4	0.03	0.09	147	0.2	<0.02	1.2	1.48	<0.1	<0.02	0.20	11.2	0.2	<0.05	<0.1	0.58	2.2
REP 541918	QC	0.012	0.09	<0.1	0.4	0.03	0.09	144	0.2	<0.02	1.1	1.57	<0.1	<0.02	0.21	12.6	0.2	<0.05	<0.1	0.60	2.2
541922	Soil	0.007	0.05	<0.1	0.2	0.03	0.03	65	0.2	<0.02	2.5	0.31	<0.1	<0.02	0.11	3.9	0.2	<0.05	<0.1	0.79	6.8
REP 541922	QC																				
541929	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 541929	QC																				
541934	Soil	0.008	0.06	<0.1	0.5	0.12	0.03	50	<0.1	<0.02	2.6	0.26	<0.1	<0.02	0.12	4.2	0.2	<0.05	<0.1	0.72	2.7
REP 541934	QC	0.009	0.06	<0.1	0.4	0.11	0.03	56	0.1	<0.02	2.5	0.26	<0.1	<0.02	0.12	4.4	0.2	<0.05	<0.1	0.71	2.7
541947	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 541947	QC																				
540923	Soil	0.007	0.11	<0.1	0.6	0.07	0.31	93	1.5	<0.02	1.0	2.69	<0.1	<0.02	0.15	9.8	<0.1	<0.05	0.3	1.59	1.9
REP 540923	QC																				
540935	Soil	0.005	0.06	0.1	2.9	0.04	0.08	106	0.6	0.02	5.0	5.90	<0.1	<0.02	0.23	8.1	0.2	<0.05	0.1	2.33	4.2
REP 540935	QC	0.005	0.06	0.1	3.1	0.03	0.07	85	0.6	<0.02	5.2	5.91	<0.1	<0.02	0.21	7.3	0.3	<0.05	0.1	2.59	4.4
1115071	Soil	0.008	0.05	0.2	1.4	<0.02	0.09	223	<0.1	<0.02	3.9	7.86	<0.1	<0.02	0.44	9.2	0.2	<0.05	0.1	0.77	1.6
REP 1115071	QC																				
1115073	Soil	0.007	0.17	0.1	4.7	0.10	0.10	35	1.1	0.04	6.2	27.28	<0.1	<0.02	0.39	26.6	0.2	<0.05	0.2	9.16	5.6
REP 1115073	QC																				
1115088	Soil	0.006	0.03	<0.1	0.1	<0.02	0.04	43	0.1	<0.02	3.0	1.84	<0.1	<0.02	0.05	11.1	0.2	<0.05	<0.1	1.32	3.6
REP 1115088	QC	0.005	0.03	<0.1	0.2	0.02	0.04	42	0.1	<0.02	2.9	1.85	<0.1	<0.02	0.04	10.5	0.2	<0.05	<0.1	1.30	3.5
1115092	Soil	0.006	0.03	<0.1	1.4	0.02	0.02	45	0.2	0.04	4.4	0.53	<0.1	<0.02	0.45	3.6	0.3	<0.05	0.2	1.83	4.7
REP 1115092	QC																				



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Project: Aug 12, 2011 Shipment

Report Date: September 30, 2011

Page: 1 of 4 Part 6

QUALITY CONTROL REPORT

SMI11000351.1

Method Analyte	Unit	1F	1F	1F	1F	1F	1F
		In	Re	Be	Li	Pd	Pt
MDL		ppm	ppb	ppm	ppm	ppb	ppb
		0.02	1	0.1	0.1	10	2
Pulp Duplicates							
540920	Soil	<0.02	<1	0.1	0.4	<10	<2
REP 540920	QC	<0.02	<1	0.1	0.4	<10	<2
1115051	Soil	<0.02	<1	<0.1	0.2	<10	<2
REP 1115051	QC						
1115134	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 1115134	QC						
541918	Soil	<0.02	<1	<0.1	0.4	<10	<2
REP 541918	QC	<0.02	<1	<0.1	0.5	<10	<2
541922	Soil	<0.02	<1	0.1	0.9	<10	<2
REP 541922	QC						
541929	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 541929	QC						
541934	Soil	<0.02	1	<0.1	0.6	<10	<2
REP 541934	QC	<0.02	1	<0.1	0.7	<10	2
541947	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 541947	QC						
540923	Soil	<0.02	<1	0.2	2.4	<10	<2
REP 540923	QC						
540935	Soil	<0.02	<1	0.2	11.4	<10	<2
REP 540935	QC	<0.02	<1	0.3	12.8	<10	<2
1115071	Soil	<0.02	<1	<0.1	9.6	<10	<2
REP 1115071	QC						
1115073	Soil	<0.02	<1	0.3	20.5	<10	<2
REP 1115073	QC						
1115088	Soil	<0.02	2	0.2	1.9	<10	<2
REP 1115088	QC	<0.02	<1	0.2	1.7	<10	<2
1115092	Soil	<0.02	<1	<0.1	2.0	<10	<2
REP 1115092	QC						



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 2 of 4 Part 1

QUALITY CONTROL REPORT

SMI11000351.1

		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
		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
537911	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 537911	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537913	Soil	0.78	15.90	10.98	77.9	175	5.6	3.4	573	1.06	<0.1	<0.1	2.5	<0.1	28.9	0.38	0.18	<0.02	29	0.33	0.141
REP 537913	QC																				
537930	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 537930	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537934	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 537934	QC																				
552014	Soil	0.98	16.88	6.43	57.0	466	7.7	5.9	962	1.95	2.6	0.4	4.4	0.4	29.8	0.14	0.32	0.10	43	0.43	0.126
REP 552014	QC	0.89	16.58	6.63	55.6	519	8.6	5.8	946	1.82	2.7	0.4	13.9	0.4	31.3	0.12	0.32	0.09	40	0.46	0.129
552034	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 552034	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552036	Soil	6.17	249.5	41.42	21.8	1655	9.6	5.5	2998	0.97	<0.1	2.3	3.2	0.1	198.4	1.14	0.37	0.25	18	2.50	0.128
REP 552036	QC																				
552047	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 552047	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552177	Soil	3.63	103.9	3.88	58.6	102	9.6	12.2	584	2.47	0.7	9.2	5.7	1.3	73.2	0.21	0.12	0.10	67	1.07	0.150
REP 552177	QC																				
552181	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 552181	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552185	Soil	0.96	35.81	13.46	12.2	217	2.8	1.5	451	0.33	0.4	0.3	1.3	0.2	326.6	0.79	0.27	0.10	9	1.96	0.179
REP 552185	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																					
STD DS8	Standard	12.80	105.5	114.2	303.5	1726	35.7	7.2	616	2.39	26.1	2.4	112.0	5.9	66.8	2.31	5.49	6.36	39	0.72	0.079
STD DS8	Standard	12.60	110.2	127.0	314.4	1773	38.8	7.5	589	2.50	26.1	2.9	120.8	7.1	58.9	2.18	5.03	6.15	41	0.67	0.076
STD DS8	Standard	12.34	103.3	121.7	303.6	1772	37.4	7.3	582	2.39	25.0	2.6	104.5	5.8	58.6	2.12	5.19	5.94	41	0.69	0.072
STD DS8	Standard	13.84	107.3	123.2	312.5	1747	36.3	7.4	611	2.42	27.1	2.9	109.4	7.2	62.7	2.23	5.39	6.60	41	0.74	0.076
STD DS8	Standard	10.74	105.7	128.5	309.9	1864	37.0	7.0	590	2.37	23.5	2.7	111.5	5.9	53.8	2.23	5.14	6.54	39	0.65	0.079
STD DS8	Standard	14.50	110.4	134.1	310.7	2009	37.0	7.2	617	2.48	28.2	3.0	115.1	7.0	67.9	2.35	5.95	7.11	42	0.77	0.076

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Project: Aug 12, 2011 Shipment
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Page: 2 of 4 Part 2

QUALITY CONTROL REPORT

SMI11000351.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
537911	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 537911	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537913	Soil	2.6	10.6	0.09	417.6	0.004	<1	0.53	0.008	0.07	0.1	0.3	0.05	0.05	84	0.4	<0.02	2.4	0.66	<0.1	<0.02
REP 537913	QC																				
537930	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 537930	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537934	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 537934	QC																				
552014	Soil	3.7	20.5	0.32	114.2	0.034	2	0.82	0.006	0.06	0.5	1.5	0.04	0.05	136	0.9	<0.02	3.8	0.78	<0.1	<0.02
REP 552014	QC	3.7	17.8	0.32	124.8	0.032	1	0.82	0.006	0.07	0.4	1.4	0.04	0.05	135	0.8	<0.02	3.3	0.78	<0.1	<0.02
552034	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 552034	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552036	Soil	36.7	6.4	0.20	274.5	0.015	4	0.66	0.010	0.09	0.4	1.5	0.10	0.14	176	0.9	<0.02	2.3	0.60	<0.1	<0.02
REP 552036	QC																				
552047	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 552047	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552177	Soil	9.9	19.4	0.85	105.2	0.048	1	1.53	0.005	0.16	0.9	2.2	0.06	0.08	106	0.5	0.03	4.4	1.71	<0.1	<0.02
REP 552177	QC																				
552181	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 552181	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
552185	Soil	2.1	2.8	0.14	106.1	0.006	2	0.34	0.008	0.09	0.1	1.0	0.04	0.23	159	0.4	<0.02	0.8	0.63	<0.1	0.03
REP 552185	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																					
STD DS8	Standard	13.9	116.1	0.60	286.2	0.108	3	0.92	0.094	0.42	3.1	2.0	5.23	0.16	192	5.0	4.93	4.2	2.34	<0.1	0.07
STD DS8	Standard	14.5	122.4	0.60	270.6	0.113	3	0.89	0.087	0.41	2.9	2.0	5.59	0.16	169	5.3	4.88	4.3	2.42	<0.1	0.08
STD DS8	Standard	14.5	118.0	0.59	249.6	0.107	2	0.93	0.092	0.41	2.9	2.1	5.40	0.16	215	5.0	4.35	4.6	2.39	<0.1	0.05
STD DS8	Standard	17.8	117.9	0.61	269.9	0.109	3	0.98	0.106	0.43	3.0	2.3	5.57	0.15	185	4.9	4.97	5.0	2.53	<0.1	0.07
STD DS8	Standard	10.7	118.9	0.60	248.0	0.091	2	0.85	0.081	0.41	3.0	1.9	5.71	0.16	208	5.4	5.03	4.3	2.51	0.1	0.07
STD DS8	Standard	18.1	121.4	0.63	288.8	0.111	2	0.95	0.093	0.43	3.2	2.3	5.99	0.16	209	5.4	5.16	4.9	2.74	<0.1	0.07



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 2 of 4 Part 3

QUALITY CONTROL REPORT

SMI11000351.1

		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
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm
537911	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.	0.93	8.83	5.27	40.5	1024	2.7	2.3
REP 537911	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
537913	Soil	0.05	8.6	0.3	<0.05	<0.1	1.07	4.7	<0.02	<1	0.1	0.5	<10	<2	0.67	16.61	9.99	75.0	187	5.3	3.4
REP 537913	QC														0.58	13.98	10.04	75.7	172	5.5	3.5
537930	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.	0.52	4.36	2.95	59.6	234	1.4	0.6
REP 537930	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
537934	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.	3.05	587.4	4.43	11.7	673	7.1	0.6
REP 537934	QC														2.87	564.5	4.20	11.8	650	6.8	0.6
552014	Soil	0.48	14.2	0.2	<0.05	<0.1	1.78	7.6	<0.02	<1	0.2	5.7	<10	3	0.75	13.71	4.88	45.5	364	6.7	4.8
REP 552014	QC	0.45	13.6	0.3	<0.05	<0.1	1.62	7.2	<0.02	<1	0.2	5.2	<10	<2							
552034	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.	1.56	9.84	8.42	33.4	543	2.9	2.3
REP 552034	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
552036	Soil	0.31	12.6	0.2	<0.05	0.2	42.46	30.1	<0.02	<1	0.6	1.9	<10	<2	5.23	228.3	39.35	19.9	1582	7.8	4.9
REP 552036	QC														5.07	229.6	39.27	18.8	1595	7.4	5.1
552047	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.	1.14	9.55	2.53	25.4	123	1.8	0.3
REP 552047	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
552177	Soil	0.57	18.5	0.2	<0.05	0.2	6.97	12.8	<0.02	<1	0.5	12.2	<10	<2	3.27	102.2	3.60	52.7	107	9.6	12.0
REP 552177	QC														3.54	105.3	3.91	57.0	94	10.2	12.3
552181	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	7.03	4.32	34.9	428	1.8	1.3
REP 552181	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
552185	Soil	0.13	7.7	0.2	<0.05	0.4	2.22	2.7	<0.02	<1	0.2	0.6	<10	<2	0.92	39.04	13.03	11.7	205	3.1	1.5
REP 552185	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
Reference Materials																					
STD DS8	Standard	1.23	37.2	6.7	<0.05	2.1	5.81	26.3	2.23	56	4.7	26.9	97	349							
STD DS8	Standard	1.21	38.1	6.2	<0.05	2.0	5.77	27.9	2.14	56	5.3	26.3	121	355							
STD DS8	Standard	1.32	37.8	6.0	<0.05	1.4	6.01	27.8	2.09	53	4.5	25.9	105	349							
STD DS8	Standard	1.39	40.6	6.6	<0.05	1.4	6.74	29.9	2.30	50	5.5	27.8	126	346							
STD DS8	Standard	1.02	39.2	6.4	<0.05	1.5	4.69	20.4	2.26	56	5.6	27.8	123	365							
STD DS8	Standard	1.64	43.3	7.0	<0.05	1.5	7.01	31.9	2.44	53	5.1	27.5	125	379							

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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 2 of 4 Part 4

QUALITY CONTROL REPORT

SMI11000351.1

		1F Mn ppm	1F Fe %	1F As ppm	1F U ppm	1F Au ppb	1F Th ppm	1F Sr ppm	1F Cd ppm	1F Sb ppm	1F Bi ppm	1F V ppm	1F Ca %	1F P %	1F La ppm	1F Cr ppm	1F Mg %	1F Ba ppm	1F Ti %	1F B ppm	1F Al %
		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
537911	Soil	414	0.72	0.6	<0.1	2.0	<0.1	20.5	0.18	0.10	0.05	23	0.26	0.092	0.8	9.9	0.13	82.7	0.024	<20	0.24
REP 537911	QC																				
537913	Soil	557	0.85	0.3	<0.1	4.1	<0.1	29.7	0.32	0.11	0.11	25	0.32	0.092	2.0	10.5	0.10	416.3	0.002	<20	0.54
REP 537913	QC	568	0.86	0.5	0.1	4.3	<0.1	30.2	0.32	0.09	0.12	25	0.34	0.094	2.0	10.2	0.10	403.5	0.002	<20	0.55
537930	Soil	1330	0.06	0.3	<0.1	0.3	<0.1	9.2	0.10	0.05	0.02	<2	0.32	0.144	<0.5	3.3	0.05	68.6	0.003	<20	0.08
REP 537930	QC																				
537934	Soil	982	0.18	0.1	0.8	1.5	<0.1	90.8	1.02	0.62	0.06	5	2.13	0.131	8.5	4.2	0.09	120.8	0.002	<20	0.45
REP 537934	QC	970	0.17	<0.1	0.8	1.5	<0.1	88.2	0.96	0.59	0.05	5	2.06	0.122	8.1	3.3	0.08	114.6	0.002	<20	0.45
552014	Soil	811	1.66	1.7	0.3	2.5	0.1	25.7	0.10	0.17	0.06	39	0.34	0.096	3.0	14.7	0.26	88.6	0.025	<20	0.79
REP 552014	QC																				
552034	Soil	383	0.78	0.5	0.2	13.2	<0.1	28.0	0.24	0.14	0.16	23	0.24	0.104	2.7	5.5	0.13	125.4	0.011	<20	0.41
REP 552034	QC																				
552036	Soil	2886	0.86	0.3	2.3	2.4	<0.1	177.1	1.18	0.29	0.27	19	2.44	0.118	40.1	6.4	0.19	238.1	0.009	<20	0.63
REP 552036	QC	2891	0.88	0.5	2.3	2.5	<0.1	173.9	1.15	0.29	0.26	19	2.46	0.118	38.7	6.1	0.18	237.0	0.011	<20	0.65
552047	Soil	67	0.06	0.2	<0.1	0.7	<0.1	18.7	0.18	0.07	0.06	<2	0.43	0.070	<0.5	3.3	0.08	72.2	0.001	<20	0.04
REP 552047	QC																				
552177	Soil	519	2.62	0.9	8.5	9.6	1.2	82.1	0.20	0.11	0.10	73	1.05	0.140	10.1	18.5	0.86	98.6	0.068	<20	1.58
REP 552177	QC	594	2.60	0.9	9.2	2.3	1.3	80.9	0.20	0.12	0.10	71	1.07	0.143	10.0	20.2	0.86	110.6	0.068	<20	1.59
552181	Soil	271	0.16	<0.1	<0.1	<0.2	<0.1	29.2	0.22	0.08	0.04	4	0.45	0.126	<0.5	5.0	0.07	119.0	0.007	<20	0.09
REP 552181	QC																				
552185	Soil	465	0.33	0.5	0.3	<0.2	0.1	337.5	0.72	0.30	0.07	9	1.99	0.178	2.2	5.5	0.17	113.7	0.005	<20	0.37
REP 552185	QC																				
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 2 of 4 Part 5

QUALITY CONTROL REPORT

SMI11000351.1

		1F Na %	1F K %	1F W ppm	1F Sc ppm	1F Ti ppm	1F S %	1F Hg ppb	1F Se ppm	1F Te ppm	1F Ga ppm	1F Cs ppm	1F Ge ppm	1F Hf ppm	1F Nb ppm	1F Rb ppm	1F Sn ppm	1F Ta ppm	1F Zr ppm	1F Y ppm	1F Ce ppm
537911	Soil	0.010	0.08	<0.1	0.3	0.04	0.07	92	0.3	<0.02	1.4	0.42	<0.1	<0.02	0.16	7.7	0.2	<0.05	<0.1	0.62	1.4
REP 537911	QC																				
537913	Soil	0.007	0.06	<0.1	0.2	0.03	0.05	65	<0.1	<0.02	2.1	0.46	<0.1	<0.02	0.05	6.5	0.2	<0.05	<0.1	1.01	4.0
REP 537913	QC	0.007	0.07	<0.1	0.2	0.04	0.05	69	0.2	0.03	2.3	0.48	<0.1	<0.02	0.05	6.7	0.2	<0.05	<0.1	0.98	3.8
537930	Soil	0.007	0.12	<0.1	0.2	0.17	0.11	230	<0.1	<0.02	0.2	0.38	<0.1	<0.02	0.03	9.9	<0.1	<0.05	<0.1	0.12	0.3
REP 537930	QC																				
537934	Soil	0.007	0.08	<0.1	0.8	0.08	0.15	153	0.7	<0.02	0.4	0.29	0.2	<0.02	0.05	4.4	0.1	<0.05	0.1	9.17	5.9
REP 537934	QC	0.007	0.08	<0.1	0.7	0.07	0.15	139	0.8	<0.02	0.4	0.28	0.2	<0.02	0.05	4.3	0.1	<0.05	0.1	8.89	5.7
552014	Soil	0.006	0.06	0.2	1.3	0.03	0.05	99	0.1	<0.02	2.9	0.51	<0.1	<0.02	0.40	9.2	0.1	<0.05	<0.1	1.33	5.7
REP 552014	QC																				
552034	Soil	0.008	0.09	0.1	0.2	0.05	0.07	80	0.2	<0.02	2.2	0.49	<0.1	<0.02	0.26	10.4	0.3	<0.05	0.2	1.31	4.3
REP 552034	QC																				
552036	Soil	0.010	0.08	0.2	1.1	0.10	0.14	155	0.6	<0.02	2.2	0.48	<0.1	<0.02	0.27	11.2	0.2	<0.05	0.2	42.98	28.8
REP 552036	QC	0.010	0.08	0.2	0.8	0.09	0.14	155	0.7	<0.02	2.2	0.52	<0.1	<0.02	0.26	12.0	0.2	<0.05	0.1	41.79	27.3
552047	Soil	0.010	0.06	<0.1	0.1	<0.02	0.13	99	<0.1	<0.02	0.1	0.07	<0.1	<0.02	0.04	2.7	0.2	<0.05	0.3	0.15	0.4
REP 552047	QC																				
552177	Soil	0.007	0.16	0.7	2.5	0.05	0.08	78	0.7	0.04	4.6	1.74	<0.1	<0.02	0.52	16.7	0.2	<0.05	0.3	6.99	12.1
REP 552177	QC	0.008	0.17	0.7	2.4	0.04	0.08	80	1.0	0.02	4.6	1.73	<0.1	<0.02	0.63	18.9	0.2	<0.05	0.3	7.26	13.1
552181	Soil	0.008	0.13	<0.1	0.5	0.02	0.12	148	<0.1	<0.02	0.4	0.31	<0.1	<0.02	0.07	6.2	0.1	<0.05	<0.1	0.23	0.7
REP 552181	QC																				
552185	Soil	0.007	0.09	<0.1	0.7	0.03	0.22	126	0.7	0.03	0.9	0.52	<0.1	<0.02	0.13	6.5	0.2	<0.05	0.2	2.05	2.3
REP 552185	QC																				
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				

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Acme Analytical Laboratories (Vancouver) Ltd.

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1700 - 750 W. Pender Street
Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment

Report Date: September 30, 2011

Page: 2 of 4 Part 6

QUALITY CONTROL REPORT

SMI11000351.1

		1F In ppm 0.02	1F Re ppb 1	1F Be ppm 0.1	1F Li ppm 0.1	1F Pd ppb 10	1F Pt ppb 2
537911	Soil	<0.02	<1	<0.1	0.6	<10	<2
REP 537911	QC						
537913	Soil	<0.02	<1	0.1	0.6	<10	<2
REP 537913	QC	<0.02	<1	<0.1	0.6	<10	<2
537930	Soil	<0.02	1	<0.1	<0.1	<10	<2
REP 537930	QC						
537934	Soil	<0.02	<1	0.2	0.4	10	<2
REP 537934	QC	<0.02	<1	0.2	0.4	<10	<2
552014	Soil	<0.02	<1	0.1	4.6	<10	<2
REP 552014	QC						
552034	Soil	<0.02	1	<0.1	1.4	<10	<2
REP 552034	QC						
552036	Soil	<0.02	<1	0.6	2.1	<10	<2
REP 552036	QC	<0.02	2	0.6	2.2	<10	<2
552047	Soil	<0.02	<1	<0.1	0.2	<10	<2
REP 552047	QC						
552177	Soil	<0.02	<1	0.4	12.6	<10	<2
REP 552177	QC	<0.02	3	0.5	11.8	<10	<2
552181	Soil	<0.02	3	0.1	0.3	<10	2
REP 552181	QC						
552185	Soil	<0.02	2	<0.1	1.1	<10	3
REP 552185	QC						
Reference Materials							
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						



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 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 3 of 4 Part 1

QUALITY CONTROL REPORT

SMI11000351.1

		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
		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
STD DS8	Standard	10.89	95.64	117.2	288.9	1725	33.7	6.7	540	2.19	22.5	2.5	100.8	5.5	51.9	2.01	4.74	5.67	36	0.60	0.067
STD DS8	Standard	14.10	111.8	130.5	320.1	1903	37.7	7.4	611	2.48	26.4	3.0	116.8	6.6	64.1	2.34	5.53	6.91	43	0.71	0.080
STD DS8	Standard	11.31	99.66	119.3	288.4	1706	33.1	6.5	533	2.17	22.6	2.6	124.6	6.3	57.9	2.14	5.26	6.33	36	0.63	0.067
STD DS8	Standard	10.71	117.5	132.4	320.5	1851	37.8	7.5	586	2.50	25.0	2.6	113.9	6.3	56.1	2.31	5.47	7.15	38	0.63	0.079
STD DS8	Standard	10.87	96.49	111.7	286.3	1626	34.8	6.3	530	2.14	24.1	2.3	100.4	5.8	52.6	2.15	4.94	5.91	35	0.59	0.072
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
STD OREAS45CA Expected																					
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	5	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Project: Aug 12, 2011 Shipment
Report Date: September 30, 2011

Page: 3 of 4 **Part** 2

QUALITY CONTROL REPORT

SMI11000351.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
STD DS8	Standard	11.8	108.1	0.55	220.2	0.086	1	0.81	0.078	0.37	2.8	1.8	5.24	0.14	197	4.6	4.62	4.1	2.27	<0.1	0.07
STD DS8	Standard	17.0	122.8	0.61	279.9	0.109	3	0.92	0.089	0.41	3.1	2.1	5.79	0.16	203	5.4	5.25	4.7	2.59	<0.1	0.09
STD DS8	Standard	13.8	109.1	0.52	255.6	0.097	3	0.85	0.102	0.39	3.1	2.1	5.54	0.15	198	5.0	4.73	4.0	2.26	0.1	0.04
STD DS8	Standard	11.0	118.9	0.59	226.4	0.097	3	0.88	0.091	0.42	3.0	2.0	5.62	0.16	214	5.0	4.79	4.2	2.44	0.1	0.06
STD DS8	Standard	12.8	107.0	0.49	258.6	0.090	2	0.76	0.071	0.36	2.8	1.7	4.97	0.14	207	4.4	4.70	3.9	2.36	0.1	0.09
STD DS8	Standard																				
STD DS8	Standard																				
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STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
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STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
STD OREAS45CA 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	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 3 of 4 Part 3

QUALITY CONTROL REPORT

SMI11000351.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	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
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	
STD DS8	Standard	0.98	35.1	5.9	<0.05	1.3	4.70	21.7	2.05	47	4.4	23.5	111	327							
STD DS8	Standard	1.42	41.2	6.6	<0.05	1.4	6.60	28.9	2.35	53	5.5	28.4	123	361							
STD DS8	Standard	1.31	35.7	5.9	<0.05	1.4	5.47	24.8	2.14	60	4.7	23.4	108	342							
STD DS8	Standard	1.04	40.9	6.8	<0.05	1.3	4.60	19.9	2.24	57	5.2	26.0	121	359							
STD DS8	Standard	1.10	33.0	6.0	<0.05	1.8	4.83	23.2	1.94	52	4.4	23.9	94	321							
STD DS8	Standard														12.16	108.8	128.8	316.4	1864	37.5	7.4
STD DS8	Standard														12.34	108.3	121.1	292.5	1763	37.7	6.9
STD DS8	Standard														13.39	104.8	118.1	293.3	1528	35.6	7.0
STD DS8	Standard														12.42	104.4	119.9	288.8	1689	36.0	7.7
STD DS8	Standard														12.43	99.12	110.7	268.7	1495	34.3	6.9
STD DS8	Standard														13.38	109.2	121.6	311.6	1685	38.5	7.3
STD DS8	Standard														13.11	112.2	134.4	328.9	1788	34.5	7.0
STD DS8	Standard														12.28	108.0	142.6	310.3	1758	34.3	6.9
STD DS8	Standard														13.80	112.0	122.6	306.8	1714	35.4	7.1
STD OREAS45CA	Standard														0.83	477.6	19.29	56.4	265	228.0	87.8
STD OREAS45CA	Standard														0.84	500.4	19.32	58.5	248	246.5	91.1
STD OREAS45CA	Standard														0.73	489.3	20.53	62.7	273	237.4	90.3
STD OREAS45CA	Standard														0.87	498.0	18.51	63.2	264	244.0	88.0
STD OREAS45CA	Standard														0.63	463.6	17.47	57.6	237	228.8	87.9
STD OREAS45CA	Standard														0.74	493.3	20.42	64.7	265	232.5	88.9
STD OREAS45CA	Standard														0.79	455.1	23.11	58.4	257	238.7	80.2
STD OREAS45CA	Standard														0.84	469.3	23.78	65.7	286	242.0	81.5
STD OREAS45CA	Standard														0.71	531.8	20.86	63.5	271	255.2	90.1
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339	13.44	110	123	312	1690	38.1	7.5
STD OREAS45CA Expected															1	494	20	60	275	240	92
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							

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 Report Date: September 30, 2011

Page: 3 of 4 Part 4

QUALITY CONTROL REPORT

SMI11000351.1

		1F Mn ppm	1F Fe %	1F As ppm	1F U ppm	1F Au ppb	1F Th ppm	1F Sr ppm	1F Cd ppm	1F Sb ppm	1F Bi ppm	1F V ppm	1F Ca %	1F P %	1F La ppm	1F Cr ppm	1F Mg %	1F Ba ppm	1F Ti %	1F B ppm	1F Al %	
		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	
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard	581	2.38	23.7	2.4	118.5	5.6	55.2	2.24	4.66	5.85	39	0.64	0.078	11.4	117.5	0.60	274.1	0.096	<20	0.88	
STD DS8	Standard	566	2.36	21.6	2.5	114.7	6.0	57.4	2.15	3.74	5.93	40	0.69	0.070	13.7	119.0	0.58	266.3	0.107	<20	0.86	
STD DS8	Standard	590	2.39	26.0	2.7	96.8	6.3	66.6	2.21	4.27	6.37	40	0.69	0.077	15.4	113.1	0.59	284.7	0.109	<20	0.89	
STD DS8	Standard	581	2.41	25.2	2.7	98.9	7.0	72.5	2.29	4.37	6.54	41	0.71	0.076	16.6	117.9	0.60	282.2	0.126	<20	0.91	
STD DS8	Standard	562	2.34	22.9	2.7	101.5	6.4	70.6	2.15	4.51	6.11	40	0.68	0.071	15.2	105.0	0.58	271.6	0.114	<20	0.88	
STD DS8	Standard	611	2.38	25.1	3.1	88.6	6.5	65.0	2.37	4.55	6.75	39	0.66	0.077	14.0	117.0	0.58	310.0	0.121	<20	0.89	
STD DS8	Standard	572	2.43	23.7	2.9	101.8	7.5	66.7	2.56	4.62	6.83	42	0.72	0.075	16.4	114.2	0.61	291.5	0.104	<20	0.92	
STD DS8	Standard	584	2.36	23.6	2.7	98.6	6.8	63.3	2.53	4.40	6.38	40	0.67	0.083	15.2	113.0	0.59	281.3	0.098	<20	0.88	
STD DS8	Standard	591	2.49	25.5	2.6	108.6	6.3	67.4	2.36	4.35	5.79	42	0.73	0.076	17.9	117.7	0.60	278.4	0.112	<20	0.95	
STD OREAS45CA	Standard	901	14.84	3.9	1.1	37.5	6.3	13.1	0.08	0.13	0.11	209	0.40	0.036	14.3	711.9	0.13	150.9	0.108	<20	3.30	
STD OREAS45CA	Standard	872	15.52	3.6	1.1	41.2	6.3	13.4	0.08	0.10	0.15	205	0.40	0.034	14.7	736.2	0.15	142.3	0.133	<20	3.61	
STD OREAS45CA	Standard	946	14.93	3.8	1.2	43.9	7.2	16.8	0.10	0.08	0.18	195	0.40	0.040	16.7	707.3	0.14	162.3	0.136	<20	3.79	
STD OREAS45CA	Standard	915	14.81	4.0	1.1	43.1	6.5	16.7	0.11	0.14	0.17	202	0.41	0.037	15.9	674.1	0.16	155.8	0.159	<20	3.83	
STD OREAS45CA	Standard	879	13.90	3.3	1.0	39.5	6.3	16.0	0.10	0.06	0.16	183	0.39	0.034	15.2	638.8	0.15	154.5	0.125	<20	3.60	
STD OREAS45CA	Standard	987	15.13	3.3	1.2	34.0	6.8	15.6	0.08	0.09	0.17	192	0.43	0.035	15.5	681.9	0.15	159.8	0.140	<20	3.43	
STD OREAS45CA	Standard	884	14.79	3.2	1.3	36.1	7.8	15.1	0.08	0.09	0.18	212	0.40	0.038	17.6	637.7	0.15	156.7	0.121	<20	3.45	
STD OREAS45CA	Standard	951	15.00	3.4	1.4	39.6	7.9	16.4	0.10	0.12	0.20	212	0.42	0.038	18.0	673.5	0.15	165.1	0.125	<20	3.50	
STD OREAS45CA	Standard	905	15.88	3.6	1.2	38.1	7.1	16.0	0.10	0.05	0.17	209	0.40	0.039	17.6	729.6	0.16	157.7	0.140	<20	4.02	
STD DS8 Expected		615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	0.08	14.6	115	0.6045	279	0.113	2.6	0.93	
STD OREAS45CA Expected		943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265	0.0385	15.9	709	0.1358	164	0.128		3.592	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					



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Project: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 3 of 4 Part 5

QUALITY CONTROL REPORT

SMI11000351.1

		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F		
		Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
		%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		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	
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard	0.083	0.41	2.6	2.0	5.80	0.16	204	5.2	5.00	4.5	2.40	<0.1	0.04	0.75	37.5	6.3	<0.05	1.4	4.70	21.5	
STD DS8	Standard	0.082	0.40	2.3	2.2	5.30	0.16	210	4.8	4.52	4.2	2.32	<0.1	0.05	0.90	34.7	5.8	<0.05	2.0	5.04	25.2	
STD DS8	Standard	0.086	0.39	2.3	2.0	5.24	0.16	170	5.0	4.57	4.5	2.37	0.1	0.06	0.84	36.1	6.8	<0.05	1.4	5.57	26.9	
STD DS8	Standard	0.090	0.39	2.4	2.2	5.15	0.16	163	5.3	4.91	5.0	2.44	0.1	0.08	1.06	35.9	6.7	<0.05	1.7	6.50	30.4	
STD DS8	Standard	0.087	0.38	2.4	2.1	4.98	0.15	179	5.4	4.52	4.6	2.35	<0.1	0.07	0.90	37.1	6.4	<0.05	1.7	6.10	27.3	
STD DS8	Standard	0.087	0.40	2.6	2.1	5.30	0.16	206	5.8	5.22	4.7	2.53	0.1	0.10	0.91	40.0	6.5	<0.05	2.1	5.59	26.5	
STD DS8	Standard	0.084	0.41	2.7	2.2	5.93	0.17	210	5.4	4.97	4.8	2.55	<0.1	0.09	0.99	40.5	7.2	<0.05	1.7	6.24	27.8	
STD DS8	Standard	0.085	0.40	2.8	2.1	5.68	0.16	176	5.5	5.06	4.4	2.47	<0.1	0.07	0.78	39.6	7.1	<0.05	1.6	5.60	23.9	
STD DS8	Standard	0.094	0.41	3.0	2.1	5.64	0.16	164	5.4	5.13	4.8	2.58	<0.1	0.07	0.94	43.4	6.8	<0.05	1.6	6.60	31.4	
STD OREAS45CA	Standard	0.004	0.07	<0.1	34.4	0.08	0.02	27	0.5	0.08	17.3	0.89	0.2	0.35	0.12	7.6	1.6	<0.05	16.4	7.26	32.1	
STD OREAS45CA	Standard	0.009	0.07	<0.1	35.3	0.12	0.02	19	0.6	0.07	17.4	1.16	0.1	0.33	0.13	8.3	1.7	<0.05	15.7	7.25	32.5	
STD OREAS45CA	Standard	0.013	0.07	<0.1	38.1	0.08	0.02	13	0.6	0.04	18.6	1.22	<0.1	0.51	0.13	9.5	2.0	<0.05	18.2	8.24	35.1	
STD OREAS45CA	Standard	0.013	0.08	<0.1	38.9	0.08	0.03	33	1.1	0.04	19.1	1.27	0.2	0.38	0.14	9.7	1.8	<0.05	16.9	8.05	33.9	
STD OREAS45CA	Standard	0.013	0.07	<0.1	36.3	0.07	0.02	27	1.0	0.08	18.9	1.16	0.1	0.56	0.12	9.3	1.7	<0.05	20.5	8.08	33.9	
STD OREAS45CA	Standard	0.009	0.07	<0.1	38.1	0.06	0.02	30	1.2	0.09	17.7	1.01	0.2	0.56	0.18	9.0	1.8	<0.05	23.1	8.60	35.1	
STD OREAS45CA	Standard	0.004	0.07	<0.1	37.9	0.11	0.02	27	0.3	0.07	18.9	1.05	<0.1	0.48	0.15	9.0	2.0	<0.05	19.9	8.48	34.9	
STD OREAS45CA	Standard	0.004	0.07	<0.1	38.9	0.12	0.02	24	0.3	0.07	19.5	1.08	<0.1	0.60	0.19	9.2	2.1	<0.05	20.6	8.73	36.8	
STD OREAS45CA	Standard	0.009	0.08	<0.1	37.8	0.13	0.03	26	0.7	<0.02	18.3	1.32	<0.1	0.56	0.12	10.3	2.0	<0.05	20.0	8.30	36.1	
STD DS8 Expected		0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08	1.1	39	6.7	0.003	2.1	6.1	29.8	
STD OREAS45CA Expected		0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11	0.5	0.22	8.2	1.8		21.6	7.84	35	
BLK	Blank																					
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Report Date: September 30, 2011

Page: 3 of 4 Part 6

QUALITY CONTROL REPORT

SMI11000351.1

		1F In ppm 0.02	1F Re ppb 1	1F Be ppm 0.1	1F Li ppm 0.1	1F Pd ppb 10	1F Pt ppb 2
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard	2.19	59	5.4	26.1	111	372
STD DS8	Standard	1.97	54	4.9	25.6	111	336
STD DS8	Standard	2.20	44	5.1	26.9	89	321
STD DS8	Standard	2.21	50	5.6	26.3	118	343
STD DS8	Standard	2.00	57	4.5	26.6	115	303
STD DS8	Standard	2.06	56	4.3	28.2	121	345
STD DS8	Standard	2.41	62	5.0	25.2	107	364
STD DS8	Standard	2.50	51	4.7	25.9	114	352
STD DS8	Standard	2.41	55	5.2	25.6	100	332
STD OREAS45CA	Standard	0.08	1	0.6	5.8	28	66
STD OREAS45CA	Standard	0.08	<1	0.7	6.9	29	61
STD OREAS45CA	Standard	0.10	1	0.6	8.5	33	57
STD OREAS45CA	Standard	0.11	<1	0.8	8.2	40	54
STD OREAS45CA	Standard	0.08	<1	1.0	7.9	52	51
STD OREAS45CA	Standard	0.07	<1	0.6	7.5	20	64
STD OREAS45CA	Standard	0.10	<1	0.5	6.8	30	69
STD OREAS45CA	Standard	0.10	<1	0.7	6.9	34	63
STD OREAS45CA	Standard	0.10	<1	0.6	8.3	34	68
STD DS8 Expected		2.19	55	5.2	26.34	110	339
STD OREAS45CA Expected		0.09			6.2	36	61
BLK	Blank						
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BLK	Blank						
BLK	Blank						



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 Report Date: September 30, 2011

Page: 4 of 4 Part 1

QUALITY CONTROL REPORT

SMI11000351.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	3.2	<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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Report Date: September 30, 2011

Page: 4 of 4 Part 2

QUALITY CONTROL REPORT

SMI11000351.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
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Project: Aug 12, 2011 Shipment

Report Date: September 30, 2011

Page: 4 of 4 Part 3

QUALITY CONTROL REPORT

SMI11000351.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2	1F Mo ppm 0.01	1F Cu ppm 0.01	1F Pb ppm 0.01	1F Zn ppm 0.1	1F Ag ppb 2	1F Ni ppm 0.1	1F Co ppm 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	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
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														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
BLK	Blank														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
BLK	Blank														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
BLK	Blank														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
BLK	Blank														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
BLK	Blank														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
BLK	Blank														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1



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Page: 4 of 4 Part 4

QUALITY CONTROL REPORT

SMI11000351.1

		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	%	
		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																					
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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	<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	2	<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	<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	<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	<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	<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	<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	<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	

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: Aug 12, 2011 Shipment
 Report Date: September 30, 2011

Page: 4 of 4 Part 5

QUALITY CONTROL REPORT

SMI11000351.1

		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F		
		Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
		%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		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	
BLK	Blank																					
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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	
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	
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	
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	
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	
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	
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	
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	
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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Client: Serengeti Resources
 1700 - 750 W. Pender Street
 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
Report Date: September 30, 2011

Page: 4 of 4 **Part** 6

QUALITY CONTROL REPORT

SMI11000351.1

		1F In ppm 0.02	1F Re ppb 1	1F Be ppm 0.1	1F Li ppm 0.1	1F Pd ppb 10	1F Pt ppb 2
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2



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Submitted By: Hugh Samson
Receiving Lab: Canada-Smithers
Received: August 26, 2011
Report Date: September 28, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

SMI11000354.1

CLIENT JOB INFORMATION

Project: Aug 12, 2011 Shipment
Shipment ID: Aug-11
P.O. Number
Number of Samples: 238

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

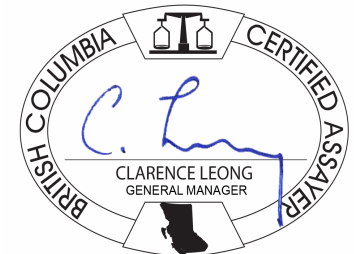
Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include Air Dry, SS80, RJSV, 1F05, and 1F04.

ADDITIONAL COMMENTS

Version 2 includes 1F04 (0.5g) analysis for 'IS' samples only

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

CC: Dustin Perry
Dave Moore



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 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 2 of 9 Part 1

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	
537938	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.
537939	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.
537940	Soil	1.45	19.43	11.38	45.4	562	11.0	5.1	299	1.12	0.2	0.5	7.0	<0.1	34.8	0.26	0.16	0.21	27	0.28	0.110
537941	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.
537942	Soil	1.41	14.57	9.31	25.0	378	7.7	7.4	996	0.86	0.6	0.2	2.9	<0.1	45.2	0.19	0.15	0.14	22	0.52	0.099
537943	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.
537944	Soil	0.89	6.87	4.24	59.8	969	2.6	1.4	196	0.09	0.4	<0.1	0.3	<0.1	10.7	0.15	0.08	0.03	<2	0.13	0.119
537945	Soil	1.35	13.30	12.77	54.7	1041	4.2	3.1	105	0.44	1.0	<0.1	1.0	<0.1	10.6	0.32	0.14	0.09	10	0.06	0.181
537946	Soil	3.97	33.64	7.10	28.3	650	10.5	17.9	836	2.27	1.0	0.6	6.2	<0.1	44.9	0.18	0.14	0.12	85	0.49	0.131
537947	Soil	3.54	70.02	3.51	59.7	232	12.3	14.0	1162	2.88	1.2	0.5	9.1	0.3	55.4	0.40	0.11	0.06	89	1.33	0.236
537948	Soil	1.82	38.97	6.35	104.2	169	11.4	8.8	1118	2.15	1.0	0.2	3.2	<0.1	105.9	0.44	0.14	0.08	54	1.84	0.215
537949	Soil	1.09	23.81	8.84	75.9	969	11.3	9.8	747	1.99	0.6	0.1	2.1	<0.1	24.9	0.23	0.18	0.11	53	0.20	0.108
537950	Soil	0.84	15.24	11.26	46.6	505	7.3	7.4	606	1.24	0.3	<0.1	1.8	<0.1	26.4	0.19	0.14	0.12	36	0.24	0.102
537960	Soil	0.83	58.83	3.82	13.9	848	7.2	4.5	103	0.92	<0.1	0.5	4.0	<0.1	35.2	0.24	0.13	0.10	24	0.33	0.135
537961	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.
537962	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.
537963	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.
537964	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.
537965	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.
537966	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.
537967	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.
537968	Soil	1.47	15.94	9.31	69.6	1045	6.1	4.6	4152	0.59	2.0	<0.1	19.9	<0.1	20.1	0.68	0.14	0.17	12	0.42	0.175
537969	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.
537970	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.
537971	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.
537972	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.
537973	Soil	0.81	12.21	6.26	22.9	138	5.0	3.5	354	0.96	0.7	0.1	12.7	<0.1	19.2	0.14	0.24	0.07	26	0.23	0.103
537974	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.
537975	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.
537976	Soil	0.85	14.68	5.38	20.6	267	6.5	5.4	1119	0.99	0.2	0.1	8.0	<0.1	38.2	0.21	0.13	0.06	24	0.57	0.079

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 2 of 9 Part 2

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	
537938	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.	
537939	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.	
537940	Soil	6.7	24.1	0.31	114.7	0.005	<1	0.76	0.007	0.06	0.2	0.3	0.03	0.05	116	0.4	<0.02	4.2	0.87	<0.1	<0.02
537941	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.	
537942	Soil	5.4	13.6	0.27	141.4	0.011	<1	0.53	0.006	0.07	0.1	0.3	0.04	0.08	108	0.2	<0.02	2.3	0.93	<0.1	<0.02
537943	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.	
537944	Soil	<0.5	3.6	0.05	69.1	0.002	4	0.17	0.007	0.06	<0.1	0.3	<0.02	0.16	204	0.6	<0.02	0.2	0.15	<0.1	<0.02
537945	Soil	0.9	9.5	0.08	152.6	0.003	<1	0.44	0.007	0.06	<0.1	0.2	<0.02	0.11	144	0.3	<0.02	0.7	0.41	<0.1	<0.02
537946	Soil	3.3	31.6	0.57	116.0	0.051	<1	0.90	0.006	0.08	0.2	0.9	0.03	0.08	106	0.6	<0.02	4.8	1.60	<0.1	<0.02
537947	Soil	4.4	37.9	1.07	110.7	0.048	1	1.26	0.003	0.30	0.3	2.6	0.05	0.14	52	0.8	<0.02	3.7	2.35	<0.1	<0.02
537948	Soil	1.7	36.5	0.61	80.8	0.026	4	0.70	0.004	0.15	0.1	1.2	0.03	0.23	86	0.3	<0.02	2.7	2.09	<0.1	<0.02
537949	Soil	1.6	31.9	0.43	151.8	0.025	<1	0.82	0.004	0.07	<0.1	0.4	<0.02	0.04	76	0.3	<0.02	3.6	0.60	<0.1	<0.02
537950	Soil	1.6	17.9	0.24	127.3	0.033	<1	0.62	0.004	0.06	<0.1	0.3	<0.02	0.05	90	0.3	<0.02	3.2	0.74	<0.1	<0.02
537960	Soil	13.6	12.3	0.23	118.8	0.007	<1	1.19	0.008	0.04	<0.1	0.2	0.04	0.11	92	0.3	<0.02	2.7	0.61	<0.1	<0.02
537961	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.	
537962	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.	
537963	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.	
537964	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.	
537965	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.	
537966	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.	
537967	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.	
537968	Soil	2.2	9.5	0.12	124.6	0.003	<1	0.59	0.006	0.11	<0.1	0.2	0.04	0.10	167	0.4	0.02	2.2	0.64	<0.1	<0.02
537969	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.	
537970	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.	
537971	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.	
537972	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.	
537973	Soil	2.0	13.4	0.20	56.8	0.028	3	0.50	0.006	0.07	0.2	1.0	0.03	0.06	163	0.5	0.04	2.0	0.44	<0.1	0.02
537974	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.	
537975	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.	
537976	Soil	1.7	13.7	0.17	251.9	0.012	<1	0.39	0.004	0.07	0.1	0.4	0.03	0.07	129	0.3	0.02	1.5	0.53	<0.1	<0.02

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 2 of 9 Part 3

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F	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	MDL	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
537938	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.	1.03	18.10	4.19	50.0	65	2.5	0.8
537939	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.	1.52	37.64	7.70	19.4	2111	11.7	16.2
537940	Soil	0.16	10.4	0.4	<0.05	<0.1	1.66	12.4	<0.02	<1	0.1	4.2	<10	<2	0.96	13.85	8.71	33.5	424	6.8	3.4
537941	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.	0.91	11.23	8.18	25.8	473	7.4	6.4
537942	Soil	0.34	16.9	0.2	<0.05	<0.1	3.49	10.9	<0.02	<1	0.2	2.6	<10	<2	1.29	12.48	8.75	22.4	375	6.5	6.4
537943	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.	0.97	10.49	4.20	20.3	226	2.7	1.9
537944	Soil	0.05	8.0	0.1	<0.05	0.1	0.14	0.5	<0.02	<1	<0.1	<0.1	<10	<2	0.77	4.90	3.85	55.7	910	2.1	1.2
537945	Soil	0.07	7.8	0.3	<0.05	<0.1	0.37	1.7	<0.02	<1	0.2	0.2	<10	<2	1.25	7.61	12.11	49.0	999	3.2	2.7
537946	Soil	0.43	18.5	0.3	<0.05	0.2	2.67	7.1	<0.02	<1	0.2	3.8	<10	5	3.14	24.87	6.41	21.4	586	7.9	13.3
537947	Soil	0.38	89.4	0.1	<0.05	0.4	5.28	9.1	<0.02	<1	0.3	8.3	<10	<2	3.52	68.28	3.99	59.5	277	11.3	13.6
537948	Soil	0.50	47.7	0.2	<0.05	0.3	1.94	3.2	<0.02	<1	<0.1	5.0	<10	<2	1.74	33.75	6.73	98.7	166	9.8	7.9
537949	Soil	0.24	9.1	0.3	<0.05	0.1	1.01	3.0	<0.02	<1	0.2	3.7	<10	<2	1.00	19.69	9.18	74.3	1096	9.4	8.5
537950	Soil	0.50	9.4	0.4	<0.05	0.1	0.83	3.1	<0.02	1	0.1	2.1	<10	<2	0.70	12.43	9.86	45.6	563	6.0	5.9
537960	Soil	0.29	6.1	0.3	<0.05	<0.1	11.66	22.2	<0.02	<1	0.6	2.4	<10	<2	0.82	48.56	3.73	13.1	934	6.4	4.0
537961	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.	1.59	71.67	5.66	26.9	910	13.2	7.9
537962	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.	1.28	9.17	8.70	25.9	592	4.8	6.0
537963	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.	1.25	49.83	1.97	12.2	703	7.7	4.6
537964	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.	1.82	26.46	5.70	20.7	867	6.8	8.1
537965	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	8.78	6.46	23.9	281	3.8	2.0
537966	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.	1.08	14.58	4.67	13.9	268	3.7	5.4
537967	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.	1.11	31.63	3.83	17.4	605	6.0	3.1
537968	Soil	0.06	12.7	0.3	<0.05	<0.1	0.54	3.7	<0.02	<1	<0.1	0.9	<10	<2	1.14	12.76	9.13	64.4	1088	4.9	4.0
537969	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.	1.61	45.45	2.34	18.8	509	3.5	15.4
537970	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.	2.59	13.57	3.26	14.8	168	1.6	1.8
537971	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.	3.04	61.57	3.56	18.0	474	4.2	4.8
537972	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.	0.59	5.90	3.36	20.2	351	3.7	1.4
537973	Soil	0.21	6.4	0.2	<0.05	<0.1	0.76	3.8	<0.02	1	<0.1	2.5	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537974	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.	0.67	6.51	4.84	26.9	616	3.7	1.1
537975	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.	0.84	6.21	6.31	21.1	419	2.8	1.9
537976	Soil	0.16	6.2	0.2	<0.05	<0.1	0.96	3.1	<0.02	<1	<0.1	1.5	<10	<2	0.88	14.54	5.99	22.2	308	6.3	5.4

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 2 of 9 Part 4

CERTIFICATE OF ANALYSIS

SMI11000354.1

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
537938	Soil	118	0.11	0.2	<0.1	6.6	<0.1	53.0	0.27	0.21	0.12	<2	0.84	0.110	<0.5	3.5	0.10	90.4	0.002	<20	0.06
537939	Soil	1054	0.75	0.8	1.1	3.1	<0.1	68.6	1.06	0.41	0.11	14	0.74	0.172	34.3	13.0	0.19	228.8	0.002	<20	0.80
537940	Soil	215	0.94	1.3	0.4	5.2	<0.1	30.4	0.18	0.10	0.18	25	0.20	0.064	5.6	19.7	0.24	80.2	0.004	<20	0.73
537941	Soil	211	1.28	1.1	0.2	4.3	<0.1	34.1	0.13	0.10	0.15	26	0.18	0.086	3.7	19.1	0.24	162.5	0.024	<20	0.57
537942	Soil	831	0.81	1.4	0.2	5.8	<0.1	50.0	0.20	0.14	0.14	23	0.47	0.080	5.7	13.8	0.25	127.5	0.015	<20	0.55
537943	Soil	432	0.32	1.0	<0.1	2.2	<0.1	27.5	0.26	0.10	0.05	9	0.41	0.111	0.7	6.3	0.13	71.8	0.007	<20	0.14
537944	Soil	170	0.07	1.3	<0.1	1.2	<0.1	9.7	0.15	0.07	0.03	<2	0.11	0.093	<0.5	2.6	0.04	59.3	0.002	<20	0.14
537945	Soil	92	0.45	1.4	<0.1	1.2	<0.1	12.4	0.24	0.12	0.09	11	0.06	0.136	0.9	8.6	0.07	130.4	0.001	<20	0.37
537946	Soil	659	1.97	1.4	0.5	4.9	<0.1	45.8	0.17	0.11	0.10	80	0.39	0.103	3.3	26.3	0.49	98.2	0.047	<20	0.85
537947	Soil	1118	2.74	1.2	0.6	42.9	0.2	68.9	0.43	0.13	0.08	86	1.31	0.223	4.9	40.1	1.02	118.7	0.061	<20	1.22
537948	Soil	992	1.96	0.3	0.2	2.1	<0.1	110.1	0.44	0.14	0.09	51	1.73	0.179	1.9	35.0	0.55	80.0	0.035	<20	0.67
537949	Soil	718	1.90	1.5	0.1	5.9	<0.1	28.8	0.20	0.15	0.10	54	0.22	0.099	1.8	30.7	0.38	152.6	0.031	<20	0.80
537950	Soil	525	1.19	2.0	<0.1	1.7	<0.1	32.2	0.13	0.13	0.20	39	0.25	0.097	1.9	17.6	0.23	124.9	0.038	<20	0.62
537960	Soil	98	1.01	1.5	0.5	3.7	<0.1	37.4	0.21	0.12	0.11	30	0.32	0.124	13.1	13.4	0.25	114.5	0.009	<20	1.30
537961	Soil	1076	1.20	2.0	0.2	5.3	<0.1	95.1	0.72	0.47	0.06	37	1.70	0.128	9.1	18.8	0.45	203.4	0.018	<20	0.95
537962	Soil	84	0.31	0.4	<0.1	1.8	<0.1	42.2	0.44	0.14	0.07	8	0.30	0.089	0.8	6.3	0.11	199.2	0.006	<20	0.20
537963	Soil	38	0.63	0.3	0.2	5.8	<0.1	89.5	1.02	0.64	0.05	7	1.44	0.148	8.1	6.0	0.16	92.7	0.003	<20	0.68
537964	Soil	507	1.36	0.6	0.6	3.8	<0.1	46.2	0.64	0.14	0.13	49	0.73	0.221	4.1	25.3	0.24	88.3	0.007	<20	0.72
537965	Soil	169	0.48	1.6	<0.1	34.0	<0.1	22.1	0.22	0.09	0.09	16	0.21	0.069	1.5	12.3	0.11	38.5	0.005	<20	0.33
537966	Soil	60	0.92	1.4	0.2	1.6	<0.1	32.6	0.60	0.09	0.04	6	0.50	0.168	2.7	5.0	0.08	66.5	0.002	<20	0.24
537967	Soil	53	0.84	0.3	0.8	4.3	<0.1	63.0	1.03	0.23	0.04	8	1.25	0.193	9.2	6.5	0.11	73.3	0.003	<20	0.47
537968	Soil	4110	0.55	1.2	<0.1	22.8	<0.1	20.2	0.63	0.12	0.16	16	0.35	0.130	2.1	9.3	0.12	120.5	0.002	<20	0.58
537969	Soil	2153	3.12	0.6	0.2	8.0	<0.1	36.8	0.60	0.23	0.05	6	0.64	0.146	4.8	6.0	0.07	82.1	0.002	<20	0.16
537970	Soil	420	0.11	<0.1	<0.1	2.4	<0.1	63.8	0.64	0.11	0.03	<2	1.30	0.120	<0.5	2.8	0.11	35.2	0.002	<20	0.05
537971	Soil	4032	0.16	<0.1	<0.1	4.3	<0.1	125.1	2.50	0.19	0.03	4	2.13	0.140	0.7	3.6	0.13	221.7	0.001	<20	0.10
537972	Soil	75	0.30	<0.1	<0.1	11.3	<0.1	33.0	0.10	0.09	0.04	11	0.33	0.046	1.0	8.6	0.09	37.9	0.013	<20	0.22
537973	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.
537974	Soil	380	0.12	1.5	<0.1	1.5	<0.1	10.2	0.15	0.07	0.04	6	0.18	0.090	0.6	7.5	0.06	50.7	0.008	<20	0.16
537975	Soil	551	0.25	2.4	<0.1	1.0	<0.1	17.8	0.13	0.11	0.04	7	0.26	0.114	0.9	6.1	0.07	46.4	0.007	<20	0.15
537976	Soil	1213	1.19	1.7	0.1	5.3	<0.1	45.5	0.23	0.16	0.07	32	0.65	0.075	2.1	16.5	0.20	258.0	0.021	<20	0.43

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 2 of 9 Part 5

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
537938	Soil			0.006	0.10	<0.1	0.4	0.03	0.16	198	0.2	0.03	0.2	0.16	<0.1	<0.02	0.06	4.7	0.2	<0.05	0.3	0.23	1.1
537939	Soil			0.006	0.11	0.1	0.2	0.07	0.16	225	0.2	0.02	1.2	0.39	<0.1	<0.02	0.17	7.9	0.2	<0.05	<0.1	17.74	63.6
537940	Soil			0.002	0.05	0.2	0.2	0.05	0.04	64	0.1	<0.02	3.4	0.70	<0.1	<0.02	0.15	7.3	0.2	<0.05	<0.1	1.36	10.4
537941	Soil			0.005	0.08	0.2	0.6	0.07	0.06	121	0.1	<0.02	2.7	0.76	<0.1	<0.02	0.50	9.6	0.3	<0.05	0.1	1.19	7.1
537942	Soil			0.004	0.08	0.1	0.3	0.07	0.07	99	0.1	<0.02	2.4	1.13	<0.1	<0.02	0.31	20.3	0.3	<0.05	<0.1	3.61	11.9
537943	Soil			0.004	0.16	<0.1	0.4	0.06	0.12	171	0.1	<0.02	0.6	0.21	<0.1	<0.02	0.11	9.0	<0.1	<0.05	<0.1	0.44	1.6
537944	Soil			0.004	0.06	<0.1	0.2	0.02	0.14	191	0.2	<0.02	0.1	0.14	<0.1	<0.02	0.03	7.0	<0.1	<0.05	0.1	0.12	0.8
537945	Soil			0.004	0.06	<0.1	0.2	0.02	0.10	147	0.2	<0.02	0.8	0.44	<0.1	<0.02	0.07	6.9	0.3	<0.05	<0.1	0.37	2.0
537946	Soil			0.005	0.08	0.2	0.8	0.07	0.07	87	0.2	0.02	4.3	1.54	<0.1	<0.02	0.36	16.9	0.2	<0.05	<0.1	2.59	7.2
537947	Soil			0.004	0.29	0.3	2.7	0.10	0.13	61	0.7	0.03	3.8	2.75	<0.1	<0.02	0.41	97.5	0.1	<0.05	0.1	6.05	10.3
537948	Soil			0.001	0.15	0.1	1.2	0.05	0.21	110	0.2	<0.02	2.7	2.45	<0.1	<0.02	0.45	48.4	0.2	<0.05	0.1	2.11	4.0
537949	Soil			0.003	0.07	0.1	0.3	0.04	0.06	75	0.1	<0.02	3.4	0.71	<0.1	<0.02	0.34	9.9	0.3	<0.05	<0.1	1.21	3.7
537950	Soil			0.002	0.06	<0.1	0.3	0.03	0.05	86	0.1	<0.02	3.1	0.86	<0.1	<0.02	0.52	11.4	0.4	<0.05	<0.1	1.03	3.9
537960	Soil			0.009	0.05	<0.1	0.2	0.08	0.12	90	0.2	<0.02	3.0	0.79	<0.1	<0.02	0.38	7.4	0.2	<0.05	<0.1	12.23	24.0
537961	Soil			0.011	0.15	0.1	1.6	0.10	0.19	141	0.5	<0.02	2.1	0.83	<0.1	<0.02	0.21	8.2	0.2	<0.05	0.3	16.65	7.6
537962	Soil			0.011	0.10	<0.1	0.3	0.04	0.16	181	0.2	0.03	0.6	0.72	<0.1	<0.02	0.11	7.4	0.1	<0.05	<0.1	0.51	1.8
537963	Soil			0.011	0.08	<0.1	0.4	0.06	0.22	193	0.6	<0.02	0.5	0.22	0.1	<0.02	0.10	3.9	0.1	<0.05	<0.1	9.26	15.5
537964	Soil			0.008	0.10	<0.1	0.4	0.21	0.18	117	0.5	0.02	3.2	1.98	<0.1	<0.02	0.25	16.5	0.3	<0.05	<0.1	3.89	8.6
537965	Soil			0.004	0.06	<0.1	0.1	0.03	0.07	89	0.2	<0.02	1.9	0.42	<0.1	<0.02	0.08	9.0	0.2	<0.05	<0.1	0.92	3.2
537966	Soil			0.011	0.09	<0.1	0.3	0.03	0.18	152	0.3	<0.02	0.3	0.20	<0.1	<0.02	0.06	10.1	<0.1	<0.05	<0.1	2.66	5.7
537967	Soil			0.013	0.08	<0.1	0.4	0.05	0.23	250	0.4	<0.02	0.4	0.29	<0.1	<0.02	0.08	7.9	0.1	<0.05	<0.1	9.77	18.1
537968	Soil			0.004	0.11	<0.1	0.2	0.05	0.09	165	0.2	0.02	2.1	0.67	<0.1	<0.02	0.04	12.4	0.2	<0.05	<0.1	0.54	4.4
537969	Soil			0.017	0.07	<0.1	0.6	0.06	0.21	134	0.3	0.02	0.3	0.18	<0.1	<0.02	0.05	5.1	0.2	<0.05	<0.1	5.71	11.2
537970	Soil			0.006	0.11	<0.1	0.3	<0.02	0.16	156	0.2	<0.02	0.1	0.34	<0.1	<0.02	0.04	10.4	0.1	<0.05	0.1	0.43	1.0
537971	Soil			0.010	0.13	<0.1	0.2	0.15	0.22	249	0.3	<0.02	0.2	0.21	<0.1	<0.02	0.04	8.3	<0.1	<0.05	<0.1	1.54	1.7
537972	Soil			0.007	0.05	<0.1	0.2	0.02	0.07	123	0.1	<0.02	1.0	0.46	<0.1	<0.02	0.23	4.0	0.1	<0.05	<0.1	0.63	2.4
537973	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.
537974	Soil			0.006	0.08	<0.1	0.2	0.04	0.09	160	0.2	<0.02	0.6	0.28	<0.1	<0.02	0.11	6.0	0.1	<0.05	<0.1	0.24	1.5
537975	Soil			0.004	0.09	<0.1	0.3	0.14	0.09	177	0.1	<0.02	0.6	0.56	<0.1	<0.02	0.08	7.1	0.2	<0.05	<0.1	0.37	2.0
537976	Soil			0.003	0.08	0.1	0.7	0.06	0.07	132	0.2	<0.02	1.9	0.75	<0.1	<0.02	0.22	9.2	0.2	<0.05	<0.1	1.31	4.3



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Page: 2 of 9 **Part** 6

CERTIFICATE OF ANALYSIS

SMI11000354.1

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
537938	Soil	<0.02	<1	<0.1	0.3	<10	<2
537939	Soil	<0.02	<1	0.6	1.8	<10	<2
537940	Soil	<0.02	<1	0.2	3.4	<10	<2
537941	Soil	<0.02	<1	0.1	2.8	<10	<2
537942	Soil	<0.02	<1	<0.1	2.6	<10	<2
537943	Soil	<0.02	<1	<0.1	0.7	<10	<2
537944	Soil	<0.02	<1	<0.1	0.1	<10	<2
537945	Soil	<0.02	<1	0.1	0.5	<10	<2
537946	Soil	<0.02	<1	0.2	3.7	<10	<2
537947	Soil	<0.02	<1	0.2	8.7	<10	<2
537948	Soil	<0.02	<1	<0.1	5.0	<10	<2
537949	Soil	<0.02	<1	0.2	3.4	<10	<2
537950	Soil	<0.02	<1	0.1	2.1	<10	<2
537960	Soil	<0.02	<1	0.5	2.9	<10	<2
537961	Soil	<0.02	<1	0.2	4.4	<10	<2
537962	Soil	<0.02	<1	<0.1	0.5	<10	<2
537963	Soil	<0.02	<1	0.4	0.5	<10	<2
537964	Soil	<0.02	<1	0.2	2.2	<10	<2
537965	Soil	<0.02	<1	<0.1	0.8	<10	<2
537966	Soil	<0.02	<1	0.1	0.2	<10	<2
537967	Soil	<0.02	<1	0.3	0.3	<10	<2
537968	Soil	<0.02	<1	0.2	1.0	<10	<2
537969	Soil	<0.02	<1	0.1	0.3	<10	<2
537970	Soil	<0.02	<1	<0.1	0.1	<10	<2
537971	Soil	<0.02	<1	<0.1	0.2	<10	<2
537972	Soil	<0.02	<1	<0.1	0.4	<10	<2
537973	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537974	Soil	<0.02	1	<0.1	0.4	<10	<2
537975	Soil	<0.02	<1	<0.1	0.4	<10	<2
537976	Soil	<0.02	<1	<0.1	1.7	<10	<2



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 Report Date: September 28, 2011

Page: 3 of 9 Part 1

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	%	%
				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
537977	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.
537978	Soil			2.54	187.1	8.58	34.4	750	29.1	42.8	1342	2.57	2.1	0.6	8.0	<0.1	48.4	0.75	0.84	0.11	62	0.77	0.156
537979	Soil			3.84	106.8	3.07	34.4	491	12.5	14.6	1901	3.44	1.1	1.2	14.7	0.1	118.4	0.82	0.26	0.05	47	1.43	0.172
537980	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.
537981	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.
537982	Soil			0.77	15.61	8.26	43.1	243	7.2	4.2	768	0.83	<0.1	<0.1	2.6	<0.1	25.6	0.32	0.10	0.10	20	0.19	0.096
537983	Soil			0.82	11.89	5.00	40.8	242	3.8	2.3	520	0.50	<0.1	<0.1	787.3	<0.1	13.5	0.32	0.11	0.03	9	0.25	0.119
537984	Soil			0.91	14.92	11.43	33.8	1210	6.9	2.8	208	0.83	<0.1	<0.1	6.0	<0.1	24.8	0.25	0.21	0.12	26	0.19	0.090
537985	Soil			0.82	13.43	7.57	20.8	452	6.1	3.3	212	1.31	0.4	0.1	2.7	<0.1	27.1	0.18	0.19	0.11	37	0.19	0.042
537986	Soil			0.70	14.75	10.36	41.4	145	5.7	3.8	1241	1.19	0.3	0.1	7.4	<0.1	25.0	0.42	0.13	0.17	28	0.34	0.060
537987	Soil			1.19	9.67	10.51	36.1	305	6.0	2.6	361	0.76	0.2	<0.1	6.4	<0.1	26.6	0.22	0.15	0.11	24	0.30	0.068
537988	Soil			1.02	12.71	7.10	17.4	325	8.9	8.7	134	1.16	<0.1	0.2	2.8	<0.1	68.3	0.26	0.19	0.07	28	0.49	0.082
537989	Soil			0.84	13.93	7.04	45.7	773	6.1	4.5	692	1.32	0.3	<0.1	8.4	<0.1	22.5	0.20	0.16	0.08	31	0.37	0.088
540551	Soil			2.21	19.07	8.12	18.8	227	9.7	7.1	329	1.31	<0.1	<0.1	0.8	<0.1	40.1	0.35	0.13	0.07	32	0.54	0.091
540552	Soil			1.50	59.48	2.76	18.9	203	5.2	0.9	307	0.11	<0.1	0.1	0.3	<0.1	74.2	0.89	0.11	<0.02	4	2.33	0.096
540553	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.
540554	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.
540555	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.
540556	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.
540557	Soil			0.67	16.67	4.30	17.8	528	4.9	6.5	131	1.11	1.0	0.1	2.4	<0.1	31.5	0.07	0.22	0.07	34	0.34	0.062
540558	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.
540559	Soil			0.63	7.14	5.20	19.1	917	1.7	0.6	764	0.11	0.4	<0.1	1.6	<0.1	9.8	0.11	0.14	0.04	3	0.42	0.109
540560	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.
540561	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.
540562	Soil			1.29	5.99	7.66	17.3	442	2.7	2.0	546	0.79	0.5	<0.1	2.0	<0.1	22.7	0.07	0.14	0.10	25	0.28	0.056
540563	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.
540564	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.
540565	Soil			3.14	110.9	3.29	9.1	1489	1.5	0.4	646	0.11	0.2	0.2	1.7	<0.1	181.7	0.78	0.15	0.05	3	3.44	0.097
540566	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.
540567	Soil			0.83	16.71	5.94	24.7	1517	3.8	3.0	259	0.40	0.2	0.2	9.7	<0.1	55.6	0.25	0.17	0.08	12	0.72	0.095

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: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 3 of 9 Part 2

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	
537977	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.	
537978	Soil	17.2	41.3	0.60	197.5	0.016	1	1.76	0.013	0.17	0.2	1.8	0.10	0.15	113	1.1	0.04	3.7	1.75	<0.1	0.03
537979	Soil	6.5	27.3	0.43	194.1	0.020	2	0.91	0.009	0.10	0.1	2.2	0.08	0.20	125	1.1	0.07	2.0	0.93	<0.1	<0.02
537980	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.
537981	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.
537982	Soil	1.7	16.2	0.09	173.3	0.005	<1	0.59	0.006	0.06	<0.1	0.1	<0.02	0.06	82	0.3	0.02	1.8	0.25	<0.1	<0.02
537983	Soil	0.6	8.3	0.11	57.5	0.016	1	0.24	0.007	0.08	<0.1	0.5	0.06	0.12	174	0.5	0.04	0.7	0.25	<0.1	<0.02
537984	Soil	2.2	15.4	0.08	155.5	0.013	<1	0.62	0.007	0.04	0.1	0.3	<0.02	0.06	131	0.4	<0.02	2.5	0.40	<0.1	<0.02
537985	Soil	2.7	17.7	0.11	106.0	0.040	<1	0.64	0.006	0.03	<0.1	0.6	<0.02	0.02	36	0.2	<0.02	3.2	0.31	<0.1	<0.02
537986	Soil	2.4	18.0	0.14	143.2	0.009	<1	0.78	0.005	0.04	<0.1	0.3	<0.02	0.03	53	0.2	0.03	2.9	0.39	<0.1	<0.02
537987	Soil	1.8	14.4	0.11	142.4	0.026	<1	0.47	0.005	0.04	0.1	0.4	<0.02	0.05	85	0.3	<0.02	2.5	0.29	<0.1	<0.02
537988	Soil	2.1	19.5	0.26	205.6	0.020	<1	0.48	0.006	0.08	0.1	0.5	<0.02	0.08	76	0.4	0.06	2.1	0.43	<0.1	<0.02
537989	Soil	1.2	21.5	0.20	80.9	0.046	2	0.49	0.005	0.06	<0.1	0.8	0.06	0.08	187	0.3	0.04	2.2	0.65	<0.1	<0.02
540551	Soil	1.3	27.0	0.18	96.9	0.018	<1	0.40	0.005	0.07	0.1	0.3	<0.02	0.07	61	0.3	<0.02	2.4	0.84	<0.1	<0.02
540552	Soil	1.3	2.8	0.09	44.4	0.003	3	0.12	0.010	0.06	<0.1	0.2	0.03	0.25	101	0.6	<0.02	0.1	0.12	<0.1	<0.02
540553	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.
540554	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.
540555	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.
540556	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.
540557	Soil	1.5	13.4	0.26	33.3	0.082	2	0.46	0.006	0.06	0.1	1.1	0.05	0.05	122	0.6	<0.02	2.7	0.80	<0.1	0.02
540558	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.
540559	Soil	0.5	2.6	0.04	92.7	0.005	1	0.07	0.005	0.08	<0.1	0.3	0.11	0.12	280	1.0	<0.02	0.3	0.41	<0.1	<0.02
540560	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.
540561	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.
540562	Soil	1.2	10.1	0.07	59.7	0.059	2	0.18	0.004	0.06	0.2	0.7	0.05	0.04	59	0.3	<0.02	1.9	0.42	<0.1	<0.02
540563	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.
540564	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.
540565	Soil	5.2	2.6	0.08	130.6	0.003	5	0.12	0.005	0.07	<0.1	0.4	0.03	0.18	220	0.3	<0.02	0.3	0.86	0.1	<0.02
540566	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.
540567	Soil	3.0	8.2	0.12	147.6	0.012	1	0.31	0.006	0.07	0.1	0.2	0.03	0.09	146	0.3	<0.02	1.7	0.61	<0.1	<0.02

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



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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 3 of 9 Part 3

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F	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	MDL	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
537977	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.	11.09	124.3	4.37	16.9	2137	14.5	15.4	
537978	Soil	0.22	16.4	0.2	<0.05	<0.1	23.85	32.9	<0.02	3	0.7	5.8	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
537979	Soil	0.18	10.1	0.1	<0.05	0.1	8.30	9.5	<0.02	<1	0.2	5.0	<10	<2	3.79	97.49	3.48	33.3	546	12.2	14.3
537980	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.	4.68	48.07	2.74	18.4	386	8.0	6.7	
537981	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.	
537982	Soil	0.13	3.7	0.2	<0.05	<0.1	0.78	3.0	<0.02	<1	0.1	0.7	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
537983	Soil	0.08	5.9	0.1	<0.05	<0.1	0.35	1.1	<0.02	3	<0.1	0.4	<10	<2	0.86	11.69	5.11	42.3	172	3.1	2.2
537984	Soil	0.18	3.7	0.4	<0.05	<0.1	0.76	4.2	<0.02	<1	<0.1	0.6	<10	<2	0.87	13.57	10.36	32.6	1149	6.1	2.4
537985	Soil	0.57	2.7	0.4	<0.05	0.1	1.13	5.2	<0.02	2	0.1	0.8	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
537986	Soil	0.10	5.8	0.3	<0.05	<0.1	1.14	4.5	<0.02	<1	<0.1	1.0	<10	<2	0.63	15.06	11.23	44.6	158	5.8	4.1
537987	Soil	0.23	3.2	0.3	<0.05	0.1	0.77	3.3	<0.02	<1	0.1	0.9	<10	<2	1.10	9.75	10.11	36.3	299	5.1	2.5
537988	Soil	0.25	10.6	0.2	<0.05	<0.1	1.38	3.8	<0.02	2	<0.1	1.7	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
537989	Soil	0.26	14.3	0.2	<0.05	0.2	0.81	2.4	<0.02	2	<0.1	1.5	<10	<2	0.91	14.00	7.35	48.2	822	5.4	4.5
540551	Soil	0.30	12.3	0.3	<0.05	<0.1	0.89	2.6	<0.02	<1	<0.1	1.4	<10	<2	1.95	17.27	8.14	20.5	227	7.5	6.4
540552	Soil	0.03	4.0	<0.1	<0.05	0.2	1.37	1.4	<0.02	<1	<0.1	0.1	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
540553	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.	4.76	88.25	4.35	8.1	207	4.8	0.7	
540554	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.	3.15	43.36	4.63	69.7	157	6.6	7.2	
540555	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.	1.83	91.73	5.35	32.0	250	2.9	1.7	
540556	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.	0.96	69.70	6.30	33.0	772	5.7	5.3	
540557	Soil	0.29	8.3	0.3	<0.05	0.4	1.82	3.1	<0.02	2	0.1	2.6	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
540558	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.	0.73	8.68	5.09	26.7	1110	2.4	1.7	
540559	Soil	0.07	7.6	0.2	<0.05	0.2	0.17	1.0	<0.02	<1	<0.1	<0.1	<10	<2	0.66	37.73	5.22	20.8	905	1.6	0.7
540560	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.	1.04	41.10	4.06	53.2	246	2.1	0.6	
540561	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.	1.18	6.83	7.26	33.1	466	2.8	2.3	
540562	Soil	0.26	8.8	0.3	<0.05	0.5	0.83	2.4	<0.02	<1	<0.1	0.2	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
540563	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.	0.92	25.64	3.79	56.2	453	3.4	0.8	
540564	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	11.47	7.09	27.7	671	3.4	2.9	
540565	Soil	0.03	6.1	0.2	<0.05	0.3	6.57	1.5	<0.02	2	0.2	0.1	<10	<2	2.40	111.2	2.87	8.5	1277	1.4	0.5
540566	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.	1.40	42.98	5.06	49.2	265	1.8	0.8	
540567	Soil	0.18	8.3	0.2	<0.05	<0.1	2.02	5.2	<0.02	1	<0.1	0.7	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 3 of 9 Part 4

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method Analyte	Unit	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
MDL		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	
		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
537977	Soil	513	4.60	2.2	0.7	11.1	<0.1	54.0	1.57	0.42	0.06	41	0.64	0.254	7.1	18.2	0.13	140.0	0.003	<20	0.62
537978	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.
537979	Soil	1912	3.56	2.2	1.4	14.9	0.1	125.4	0.88	0.29	0.06	52	1.47	0.162	6.9	30.3	0.45	203.5	0.019	<20	0.95
537980	Soil	244	1.23	0.7	0.3	14.8	<0.1	64.6	0.89	0.18	0.04	15	0.95	0.203	4.7	10.1	0.13	118.8	0.001	<20	0.34
537981	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.
537982	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.
537983	Soil	485	0.53	0.5	<0.1	2.0	<0.1	16.6	0.27	0.15	0.09	13	0.28	0.114	0.6	9.2	0.14	62.4	0.019	<20	0.26
537984	Soil	186	0.85	0.6	<0.1	0.9	<0.1	34.3	0.31	0.19	0.12	30	0.22	0.079	2.7	15.4	0.10	156.7	0.021	<20	0.67
537985	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.
537986	Soil	1306	1.35	0.6	0.1	6.9	<0.1	37.9	0.51	0.14	0.19	36	0.41	0.066	3.2	20.1	0.20	166.1	0.023	<20	0.89
537987	Soil	353	0.88	0.6	<0.1	3.7	<0.1	34.7	0.21	0.17	0.15	30	0.35	0.071	2.2	14.3	0.15	147.0	0.038	<20	0.53
537988	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.
537989	Soil	691	1.20	0.7	<0.1	1.5	<0.1	29.8	0.25	0.17	0.12	33	0.42	0.093	1.5	18.1	0.25	97.0	0.051	<20	0.53
540551	Soil	309	1.32	0.7	0.1	0.5	<0.1	55.6	0.34	0.17	0.08	38	0.62	0.105	1.6	25.5	0.22	108.1	0.040	<20	0.47
540552	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.
540553	Soil	325	0.10	<0.1	0.2	1.1	<0.1	86.4	1.10	0.14	0.12	6	2.74	0.084	0.9	3.9	0.10	49.9	0.002	<20	0.11
540554	Soil	5974	0.38	0.7	<0.1	2.9	<0.1	100.0	0.73	0.25	0.08	7	2.88	0.141	0.6	6.0	0.13	143.1	0.002	<20	0.16
540555	Soil	210	0.11	0.8	<0.1	3.8	<0.1	31.7	0.34	0.17	0.16	2	0.73	0.124	<0.5	4.3	0.10	82.9	0.005	<20	0.10
540556	Soil	99	0.23	0.3	<0.1	1.7	<0.1	47.1	0.23	0.12	0.12	5	0.54	0.118	0.8	5.5	0.23	104.5	0.008	<20	0.19
540557	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.
540558	Soil	642	0.75	0.9	<0.1	0.5	<0.1	23.6	0.10	0.24	0.06	21	0.34	0.074	0.9	12.4	0.08	105.8	0.038	<20	0.18
540559	Soil	784	0.13	<0.1	<0.1	1.6	<0.1	12.9	0.14	0.15	0.11	3	0.42	0.126	0.6	3.1	0.05	103.4	0.005	<20	0.09
540560	Soil	2625	0.11	<0.1	<0.1	4.1	<0.1	7.9	0.13	0.09	0.12	2	0.38	0.168	<0.5	3.7	0.09	96.9	0.003	<20	0.09
540561	Soil	2621	0.45	<0.1	<0.1	4.4	<0.1	26.2	0.12	0.14	0.07	14	0.37	0.109	1.2	7.9	0.11	120.2	0.020	<20	0.21
540562	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.
540563	Soil	1636	0.08	0.3	<0.1	1.8	<0.1	9.9	0.18	0.08	0.10	2	0.41	0.147	<0.5	6.2	0.07	82.1	0.005	<20	0.11
540564	Soil	474	1.15	0.5	<0.1	0.9	<0.1	26.9	0.28	0.12	0.08	26	0.35	0.087	1.3	15.4	0.09	95.0	0.041	<20	0.22
540565	Soil	604	0.12	<0.1	0.2	2.8	<0.1	186.1	0.81	0.14	0.04	3	3.28	0.102	5.0	2.3	0.08	133.5	0.002	<20	0.11
540566	Soil	111	0.15	0.3	<0.1	2.1	<0.1	50.0	0.17	0.11	0.12	3	0.52	0.123	<0.5	4.3	0.06	132.9	0.004	<20	0.10
540567	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.

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 3 of 9 Part 5

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method Analyte Unit MDL	1F Na % 0.001	1F K % 0.01	1F W ppm 0.1	1F Sc ppm 0.1	1F TI ppm 0.02	1F S % 0.02	1F Hg ppb 5	1F Se ppm 0.1	1F Te ppm 0.02	1F Ga ppm 0.1	1F Cs ppm 0.02	1F Ge ppm 0.1	1F Hf ppm 0.02	1F Nb ppm 0.02	1F Rb ppm 0.1	1F Sn ppm 0.1	1F Ta ppm 0.05	1F Zr ppm 0.1	1F Y ppm 0.01	1F Ce ppm 0.1	
537977	Soil	0.024	0.09	0.1	0.7	0.26	0.31	211	0.9	0.02	0.9	0.52	<0.1	<0.02	0.14	5.2	<0.1	<0.05	<0.1	11.92	11.3
537978	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.
537979	Soil	0.009	0.11	0.2	2.1	0.10	0.19	144	0.8	0.03	2.5	1.03	<0.1	<0.02	0.23	11.3	0.1	<0.05	<0.1	9.70	11.4
537980	Soil	0.025	0.07	<0.1	0.3	0.08	0.29	118	0.4	<0.02	0.3	0.29	<0.1	<0.02	0.06	3.8	0.1	<0.05	<0.1	6.67	8.5
537981	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.
537982	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.
537983	Soil	0.007	0.09	<0.1	0.6	0.06	0.09	188	0.4	<0.02	0.9	0.27	<0.1	<0.02	0.14	6.6	0.2	<0.05	<0.1	0.48	1.6
537984	Soil	0.006	0.04	<0.1	0.4	0.02	0.06	114	0.2	0.02	3.1	0.42	<0.1	<0.02	0.37	3.9	0.4	<0.05	<0.1	1.11	5.5
537985	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.
537986	Soil	0.002	0.05	<0.1	0.5	0.04	0.04	56	0.4	0.03	3.7	0.57	<0.1	<0.02	0.16	9.1	0.3	<0.05	<0.1	1.62	6.5
537987	Soil	0.006	0.05	0.2	0.5	0.03	0.06	77	0.3	<0.02	2.8	0.36	<0.1	<0.02	0.32	4.2	0.4	<0.05	0.1	1.08	4.4
537988	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.
537989	Soil	0.007	0.06	0.1	0.9	0.07	0.08	185	0.3	0.03	2.4	0.66	<0.1	<0.02	0.34	14.7	0.3	<0.05	0.2	1.06	3.2
540551	Soil	0.005	0.07	0.1	0.5	0.02	0.07	64	0.2	0.03	2.7	1.03	<0.1	<0.02	0.40	15.9	0.3	<0.05	<0.1	1.28	3.9
540552	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.
540553	Soil	0.012	0.05	<0.1	0.2	0.02	0.24	107	0.4	<0.02	0.2	0.09	<0.1	<0.02	0.05	3.0	<0.1	<0.05	0.1	1.28	1.2
540554	Soil	0.018	0.09	<0.1	0.2	0.14	0.28	106	0.9	0.04	0.3	0.08	<0.1	<0.02	0.03	5.2	0.1	<0.05	<0.1	0.98	1.0
540555	Soil	0.010	0.12	<0.1	0.3	0.04	0.16	142	0.3	<0.02	0.2	0.21	<0.1	<0.02	0.06	7.4	0.1	<0.05	0.2	0.21	1.1
540556	Soil	0.009	0.08	<0.1	0.4	0.04	0.16	133	0.4	0.02	0.5	0.23	<0.1	<0.02	0.08	6.5	0.1	<0.05	<0.1	0.83	2.0
540557	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.
540558	Soil	0.007	0.07	<0.1	1.0	0.09	0.07	186	0.3	<0.02	1.2	0.52	<0.1	<0.02	0.22	8.3	0.2	<0.05	0.1	0.69	2.1
540559	Soil	0.006	0.09	<0.1	0.5	0.11	0.12	260	0.2	0.03	0.3	0.41	<0.1	<0.02	0.06	7.9	0.2	<0.05	<0.1	0.20	1.4
540560	Soil	0.007	0.16	<0.1	0.3	0.17	0.12	173	0.1	<0.02	0.3	0.30	<0.1	<0.02	0.03	20.0	0.1	<0.05	<0.1	0.15	1.0
540561	Soil	0.006	0.11	<0.1	0.4	0.12	0.08	109	0.1	<0.02	1.2	0.42	<0.1	<0.02	0.07	13.4	0.2	<0.05	<0.1	0.64	2.5
540562	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.
540563	Soil	0.006	0.13	<0.1	0.1	0.15	0.12	238	0.3	<0.02	0.2	0.32	<0.1	<0.02	0.04	17.5	0.1	<0.05	<0.1	0.15	1.0
540564	Soil	0.008	0.08	0.1	0.7	0.07	0.07	97	0.1	0.03	1.1	0.52	<0.1	<0.02	0.22	11.3	0.2	<0.05	0.4	0.84	2.9
540565	Soil	0.005	0.08	<0.1	0.4	<0.02	0.18	171	0.3	0.02	0.2	0.74	<0.1	<0.02	0.03	5.3	<0.1	<0.05	0.1	6.38	1.7
540566	Soil	0.008	0.10	<0.1	0.3	0.02	0.15	194	0.3	<0.02	0.3	0.99	<0.1	<0.02	0.07	6.6	0.1	<0.05	0.2	0.17	1.2
540567	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.



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 Report Date: September 28, 2011

Page: 3 of 9 Part 6

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	1	0.1	0.1	10	2
537977	Soil	<0.02	<1	0.3	1.1	<10	<2
537978	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537979	Soil	<0.02	<1	0.2	5.8	<10	<2
537980	Soil	<0.02	2	0.2	0.5	<10	<2
537981	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537982	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537983	Soil	<0.02	<1	<0.1	0.7	<10	<2
537984	Soil	<0.02	<1	0.2	0.6	<10	<2
537985	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537986	Soil	<0.02	1	0.1	1.4	<10	<2
537987	Soil	<0.02	1	<0.1	1.1	<10	<2
537988	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537989	Soil	<0.02	<1	<0.1	1.6	<10	<2
540551	Soil	<0.02	1	0.1	1.7	<10	<2
540552	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540553	Soil	<0.02	<1	<0.1	0.1	<10	<2
540554	Soil	<0.02	1	<0.1	0.3	<10	<2
540555	Soil	<0.02	2	<0.1	0.2	<10	<2
540556	Soil	<0.02	<1	0.1	0.3	<10	<2
540557	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540558	Soil	<0.02	<1	<0.1	0.4	<10	<2
540559	Soil	<0.02	<1	<0.1	0.2	<10	<2
540560	Soil	<0.02	<1	<0.1	0.2	<10	<2
540561	Soil	<0.02	<1	0.1	0.4	<10	<2
540562	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540563	Soil	<0.02	<1	<0.1	0.1	<10	<2
540564	Soil	<0.02	1	<0.1	0.4	<10	<2
540565	Soil	<0.02	<1	<0.1	0.3	<10	<2
540566	Soil	<0.02	2	<0.1	0.3	<10	<2
540567	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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Page: 4 of 9 Part 1

CERTIFICATE OF ANALYSIS

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Method	Analyte	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
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
540987	Soil	1.52	7.66	6.44	31.6	639	1.4	0.5	412	0.10	<0.1	<0.1	0.3	0.1	28.6	0.31	0.10	0.04	3	0.44	0.115
540988	Soil	1.27	7.76	6.48	30.0	464	2.3	1.7	353	0.50	0.4	<0.1	3.6	<0.1	21.4	0.12	0.15	0.07	16	0.36	0.094
510501	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.
510502	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.
510503	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.
510504	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.
510505	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.
510506	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.
510507	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.
510508	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.
510509	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.
510510	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.
510511	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.
510512	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.
510513	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.
510514	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.
510515	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.
510516	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.
510517	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.
510518	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.
510519	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.
510520	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.
510521	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.
510522	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.
510523	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.
540959	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.
540960	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.
540961	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.
540962	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.
540963	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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 1700 - 750 W. Pender Street
 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 4 of 9 Part 2

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	Ti	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	
540987	Soil	<0.5	3.0	0.04	83.1	0.003	1	0.08	0.006	0.09	<0.1	0.3	0.04	0.14	258	0.4	<0.02	0.4	0.53	<0.1	<0.02
540988	Soil	0.9	6.4	0.07	110.0	0.009	<1	0.22	0.004	0.08	0.1	0.2	0.05	0.09	221	0.4	<0.02	1.2	0.51	<0.1	<0.02
510501	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.
510502	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.
510503	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.
510504	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.
510505	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.
510506	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.
510507	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.
510508	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.
510509	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.
510510	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.
510511	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.
510512	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.
510513	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.
510514	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.
510515	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.
510516	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.
510517	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.
510518	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.
510519	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.
510520	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.
510521	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.
510522	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.
510523	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.
540959	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.
540960	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.
540961	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.
540962	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.
540963	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.

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 4 of 9 Part 3

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	
540987	Soil	0.06	4.8	0.2	<0.05	0.2	0.18	0.7	<0.02	<1	<0.1	0.3	<10	<2	1.52	17.02	6.57	35.5	649	1.5	0.6
540988	Soil	0.12	5.2	0.2	<0.05	<0.1	0.30	1.6	<0.02	<1	<0.1	0.4	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
510501	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.
510502	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.
510503	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.
510504	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.
510505	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.
510506	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.
510507	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.
510508	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.
510509	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.
510510	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.
510511	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.
510512	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.
510513	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.
510514	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.
510515	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.
510516	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.
510517	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.
510518	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.
510519	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.
510520	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.
510521	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.
510522	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.
510523	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.
540959	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	24.41	7.67	21.5	889	5.2	4.1
540960	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.	1.01	11.79	5.75	26.0	512	5.1	3.5
540961	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.	0.78	26.03	4.16	20.4	837	8.1	4.3
540962	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.	1.33	51.11	8.47	27.0	1131	9.9	24.8
540963	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.	0.99	45.80	2.44	18.4	767	8.7	5.8

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: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 4 of 9 Part 4

CERTIFICATE OF ANALYSIS

SMI11000354.1

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
540987	Soil	459	0.12	0.2	<0.1	1.8	<0.1	35.2	0.28	0.13	0.07	3	0.52	0.142	<0.5	3.3	0.05	91.7	0.004	<20	0.11
540988	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.
510501	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.
510502	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.
510503	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.
510504	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.
510505	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.
510506	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.
510507	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.
510508	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.
510509	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.
510510	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.
510511	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.
510512	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.
510513	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.
510514	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.
510515	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.
510516	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.
510517	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.
510518	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.
510519	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.
510520	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.
510521	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.
510522	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.
510523	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.
540959	Soil	128	0.28	0.2	<0.1	2.1	<0.1	37.5	0.16	0.10	0.07	9	0.31	0.110	1.2	8.2	0.15	152.6	0.009	<20	0.25
540960	Soil	123	0.19	<0.1	<0.1	4.1	<0.1	37.8	0.19	0.11	0.05	5	0.33	0.123	0.9	6.1	0.17	113.3	0.011	<20	0.16
540961	Soil	148	0.72	0.4	0.3	3.2	<0.1	61.9	0.16	0.19	0.05	24	1.00	0.108	4.3	18.0	0.34	90.9	0.028	<20	0.51
540962	Soil	2417	0.81	0.2	1.2	1.7	<0.1	56.1	0.97	0.41	0.08	18	0.91	0.178	8.9	13.1	0.29	157.4	0.007	<20	0.52
540963	Soil	162	0.88	<0.1	1.9	3.3	<0.1	63.6	0.49	0.24	0.05	20	1.17	0.217	6.7	17.3	0.31	85.1	0.007	<20	0.64

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: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 4 of 9 Part 5

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
Unit	MDL	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
540987	Soil	0.007	0.10	<0.1	0.5	0.04	0.15	230	0.5	0.03	0.3	0.56	<0.1	<0.02	0.03	5.8	0.1	<0.05	<0.1	0.20	1.2
540988	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.
510501	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.
510502	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.
510503	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.
510504	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.
510505	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.
510506	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.
510507	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.
510508	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.
510509	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.
510510	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.
510511	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.
510512	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.
510513	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.
510514	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.
510515	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.
510516	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.
510517	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.
510518	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.
510519	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.
510520	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.
510521	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.
510522	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.
510523	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.
540959	Soil	0.007	0.09	<0.1	0.3	0.03	0.11	116	0.4	<0.02	0.8	0.45	<0.1	<0.02	0.18	8.6	0.2	<0.05	<0.1	0.59	2.5
540960	Soil	0.007	0.10	<0.1	0.4	0.04	0.11	121	0.2	<0.02	0.6	0.40	<0.1	<0.02	0.13	8.3	0.1	<0.05	<0.1	0.43	2.0
540961	Soil	0.007	0.07	0.7	0.7	0.02	0.11	150	0.4	<0.02	1.9	0.52	<0.1	<0.02	0.29	7.4	0.2	<0.05	<0.1	4.08	8.3
540962	Soil	0.009	0.13	<0.1	0.6	0.12	0.14	286	0.5	0.03	1.2	0.55	<0.1	<0.02	0.12	11.7	0.2	<0.05	<0.1	9.12	18.8
540963	Soil	0.009	0.12	0.1	0.3	0.04	0.16	202	0.4	<0.02	1.5	0.57	<0.1	<0.02	0.30	12.4	0.1	<0.05	<0.1	6.50	13.3

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: Aug 12, 2011 Shipment
Report Date: September 28, 2011

Page: 4 of 9 **Part** 6

CERTIFICATE OF ANALYSIS

SMI11000354.1

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
540987	Soil	<0.02	<1	<0.1	0.2	<10	<2
540988	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
510501	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510502	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510503	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510504	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510505	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510506	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510507	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510508	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510509	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510510	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510511	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510512	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510513	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510514	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510515	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510516	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510517	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510518	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510519	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510520	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510521	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510522	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
510523	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
540959	Soil	<0.02	1	<0.1	0.4	<10	<2
540960	Soil	<0.02	<1	0.1	0.2	<10	<2
540961	Soil	<0.02	<1	0.3	1.8	<10	<2
540962	Soil	<0.02	1	0.4	1.4	<10	<2
540963	Soil	<0.02	<1	0.3	1.6	<10	<2

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 5 of 9 Part 1

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	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	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
540964	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.
540965	Soil	1.03	53.01	10.23	36.2	850	23.1	71.8	2095	1.58	0.3	0.5	3.1	<0.1	37.6	0.23	0.36	0.07	40	0.47	0.171
540966	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.
540967	Soil	1.28	67.45	5.11	21.7	453	13.9	18.2	3363	0.38	<0.1	0.5	2.9	0.1	82.6	1.36	0.63	0.03	6	1.48	0.204
540968	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.
540969	Soil	2.09	18.50	5.91	14.8	330	5.6	6.2	745	0.67	0.3	0.2	1.5	0.1	74.4	0.97	0.09	0.06	18	1.36	0.133
540970	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.
540971	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.
540972	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.
540973	Soil	1.11	23.60	5.34	58.7	215	4.8	5.5	1007	0.60	0.2	<0.1	<0.2	<0.1	89.4	2.48	0.08	0.05	17	2.43	0.146
540974	Soil	0.88	8.98	8.44	44.5	161	3.7	2.5	205	0.49	<0.1	<0.1	0.2	<0.1	22.3	0.28	0.12	0.05	12	0.35	0.119
540975	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.
540976	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.
540977	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.
540978	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.
540979	Soil	0.93	8.30	6.20	49.5	695	2.5	1.5	737	0.20	<0.1	0.1	<0.2	<0.1	13.6	0.18	0.10	0.09	6	0.42	0.139
540980	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.
540981	Soil	1.58	8.00	7.23	12.9	149	2.2	1.6	203	0.23	0.3	<0.1	2.5	<0.1	76.8	0.37	0.11	0.10	7	0.99	0.132
540982	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.
540983	Soil	0.72	4.11	6.82	47.4	1461	2.1	0.8	1475	0.12	<0.1	<0.1	1.0	<0.1	15.4	0.12	0.10	0.07	3	0.41	0.146
540984	Soil	0.87	6.01	6.75	51.8	1680	2.8	1.0	960	0.19	<0.1	<0.1	3.4	<0.1	20.9	0.22	0.12	0.07	5	0.52	0.131
540985	Soil	0.91	14.17	6.12	34.1	1235	5.6	26.0	655	0.63	<0.1	0.2	1.2	<0.1	33.8	0.29	0.13	0.07	6	0.43	0.261
1115096	Soil	0.32	27.58	4.56	38.4	188	3.2	6.9	397	1.92	0.2	<0.1	0.6	<0.1	39.9	0.10	0.09	0.06	61	0.38	0.058
1115097	Soil	1.29	16.98	7.65	40.3	453	8.9	6.6	560	2.06	1.0	0.1	1.8	<0.1	37.2	0.26	0.19	0.10	69	0.46	0.087
1115098	Soil	1.83	68.41	6.00	42.3	104	11.3	17.3	1941	3.03	1.4	0.2	14.6	0.2	49.0	0.27	0.43	0.11	82	0.56	0.095
1115099	Soil	1.27	14.58	5.97	21.5	679	6.8	8.7	164	1.37	0.3	0.1	15.7	<0.1	43.1	0.58	0.27	0.09	39	0.36	0.112
1115100	Soil	1.59	25.42	8.55	44.6	1744	11.6	10.8	1856	2.09	0.8	0.5	8.3	0.2	69.2	0.69	0.28	0.12	50	1.20	0.117
537441	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.
537442	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.
537443	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.

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 5 of 9 Part 2

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	
540964	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.	
540965	Soil	10.9	38.9	0.45	174.6	0.031	<1	1.10	0.006	0.10	0.2	1.3	0.07	0.10	199	0.8	0.02	2.4	1.24	0.2	<0.02
540966	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.
540967	Soil	14.9	11.6	0.18	134.2	0.005	<1	0.59	0.008	0.09	<0.1	1.4	0.12	0.20	328	0.9	<0.02	0.6	0.30	0.5	<0.02
540968	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.
540969	Soil	1.1	11.5	0.29	75.8	0.017	<1	0.27	0.007	0.08	0.1	0.7	0.03	0.20	130	0.4	<0.02	1.3	0.54	0.1	<0.02
540970	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.
540971	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.
540972	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.
540973	Soil	0.6	10.0	0.29	65.0	0.017	3	0.22	0.005	0.10	<0.1	0.6	0.03	0.23	123	0.5	<0.02	1.1	0.39	0.2	<0.02
540974	Soil	0.6	8.1	0.09	117.0	0.011	<1	0.22	0.005	0.10	0.1	0.2	0.03	0.11	184	0.8	<0.02	1.0	0.62	0.2	<0.02
540975	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.
540976	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.
540977	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.
540978	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.
540979	Soil	0.6	4.9	0.07	93.1	0.009	<1	0.11	0.005	0.13	<0.1	0.3	0.14	0.14	287	0.3	<0.02	0.6	0.35	0.2	<0.02
540980	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.
540981	Soil	<0.5	5.4	0.10	31.7	0.007	2	0.09	0.004	0.12	<0.1	0.5	0.05	0.15	216	0.3	<0.02	0.4	0.19	<0.1	<0.02
540982	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.
540983	Soil	<0.5	2.8	0.06	90.9	0.007	2	0.10	0.006	0.13	<0.1	0.6	0.11	0.11	223	0.4	<0.02	0.3	0.40	<0.1	<0.02
540984	Soil	0.7	3.5	0.07	108.5	0.010	1	0.15	0.007	0.09	<0.1	0.4	0.12	0.12	284	0.4	<0.02	0.4	0.29	<0.1	<0.02
540985	Soil	3.2	4.4	0.13	85.6	0.004	2	0.47	0.006	0.16	<0.1	0.5	0.10	0.15	186	0.4	<0.02	0.5	0.35	<0.1	<0.02
1115096	Soil	1.1	3.3	0.50	100.3	0.148	<1	0.93	0.007	0.05	<0.1	1.3	<0.02	0.03	59	0.2	<0.02	3.8	0.43	<0.1	0.03
1115097	Soil	1.8	22.8	0.40	158.2	0.039	<1	0.83	0.008	0.07	0.2	1.3	0.05	0.05	96	0.2	<0.02	3.7	0.85	<0.1	<0.02
1115098	Soil	3.1	30.1	0.78	248.6	0.049	<1	1.35	0.008	0.11	0.1	3.2	0.06	0.06	120	0.2	0.03	4.2	1.24	<0.1	<0.02
1115099	Soil	1.7	21.0	0.34	84.5	0.013	<1	0.61	0.007	0.09	0.1	0.4	0.03	0.09	84	0.3	0.04	2.5	0.79	<0.1	<0.02
1115100	Soil	3.8	40.4	0.53	127.6	0.032	<1	0.95	0.006	0.08	0.2	2.0	0.04	0.06	113	0.3	<0.02	3.5	2.32	<0.1	<0.02
537441	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.
537442	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.
537443	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.

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 5 of 9 Part 3

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	MDL	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	
540964	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.	1.02	47.20	4.14	21.4	365	9.4	18.5	
540965	Soil	0.23	20.0	0.2	<0.05	<0.1	11.74	29.4	<0.02	2	0.3	3.6	<10	<2	0.98	53.92	9.17	33.5	765	21.3	66.5
540966	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.	1.33	19.08	3.82	21.0	325	5.3	4.5	
540967	Soil	0.06	7.4	<0.1	<0.05	0.2	17.05	40.0	<0.02	<1	0.6	<0.1	<10	<2	0.98	63.73	3.93	21.1	346	13.4	17.2
540968	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.	1.63	62.93	1.92	11.5	431	9.7	2.9	
540969	Soil	0.20	13.0	0.2	<0.05	0.2	0.79	2.2	<0.02	<1	0.1	1.2	<10	2	1.66	15.55	5.07	12.6	256	4.6	5.0
540970	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.	2.75	28.67	3.63	22.0	264	6.1	21.5	
540971	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.	4.66	26.58	2.87	32.6	82	2.0	7.6	
540972	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.	1.19	15.96	5.37	22.8	54	2.8	2.0	
540973	Soil	0.15	23.9	0.2	<0.05	<0.1	0.61	0.9	<0.02	<1	0.1	0.6	<10	<2	1.00	22.17	4.64	48.4	172	4.2	4.7
540974	Soil	0.07	15.5	0.2	<0.05	<0.1	0.33	1.3	<0.02	4	0.2	0.4	<10	<2	0.82	7.77	7.47	45.8	149	3.0	2.2
540975	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.	2.06	21.58	1.63	28.6	45	3.2	3.1	
540976	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.	0.89	8.02	8.15	26.7	302	4.3	2.6	
540977	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.	0.93	24.27	3.81	36.4	699	7.0	6.9	
540978	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.	2.13	45.18	2.76	14.9	957	6.5	15.4	
540979	Soil	0.08	11.5	0.2	<0.05	<0.1	0.35	1.1	<0.02	1	<0.1	0.1	<10	<2	0.90	8.01	5.90	47.4	693	2.6	1.4
540980	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.	0.94	13.42	8.25	58.2	802	3.8	2.5	
540981	Soil	0.07	7.2	0.1	<0.05	0.1	0.24	0.7	<0.02	2	<0.1	0.5	<10	<2	1.81	9.53	8.45	14.4	194	2.3	1.9
540982	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.	2.39	23.11	2.76	11.9	248	4.6	39.0	
540983	Soil	0.04	12.4	<0.1	<0.05	<0.1	0.16	0.8	<0.02	2	<0.1	0.1	<10	<2	0.69	5.54	7.19	49.2	1454	2.4	1.1
540984	Soil	0.10	4.8	0.1	<0.05	<0.1	0.26	1.3	<0.02	<1	<0.1	0.3	<10	<2	0.96	8.10	7.76	54.6	1822	3.0	1.2
540985	Soil	0.04	13.4	0.1	<0.05	<0.1	2.61	6.5	<0.02	2	0.2	0.4	<10	<2	0.89	14.02	5.93	30.0	1170	5.0	23.8
1115096	Soil	0.68	3.0	0.2	<0.05	0.3	1.51	2.4	<0.02	<1	<0.1	3.9	<10	<2	0.32	29.98	4.75	39.5	195	3.4	6.9
1115097	Soil	0.60	7.9	0.2	<0.05	0.2	1.20	3.6	<0.02	<1	<0.1	4.6	<10	<2	1.30	20.38	8.47	42.5	506	8.9	6.9
1115098	Soil	0.35	16.3	0.1	<0.05	<0.1	2.71	7.9	<0.02	<1	0.1	10.3	<10	<2	1.74	77.07	6.51	46.4	108	12.1	18.1
1115099	Soil	0.16	10.8	0.2	<0.05	<0.1	0.99	3.4	<0.02	2	0.1	2.7	<10	<2	1.33	16.91	6.41	21.3	655	8.0	9.3
1115100	Soil	0.80	14.0	0.3	<0.05	0.1	2.53	8.0	<0.02	<1	0.1	14.1	<10	<2	1.54	29.37	9.29	45.4	1837	12.4	10.8
537441	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.	11.40	142.4	3.34	32.2	120	82.0	13.4	
537442	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.
537443	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.	3.33	27.91	5.61	77.3	171	10.1	4.2	

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 5 of 9 Part 4

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method Analyte	Unit	MDL	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	%
			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
540964	Soil		308	0.78	0.4	0.6	4.5	<0.1	52.2	0.26	0.24	0.07	15	0.68	0.149	6.9	11.3	0.22	150.0	0.009	<20	0.54
540965	Soil		2254	1.67	0.6	0.5	2.7	<0.1	44.9	0.24	0.33	0.09	44	0.48	0.182	11.0	37.6	0.49	181.5	0.032	<20	1.18
540966	Soil		158	0.53	<0.1	0.1	2.5	<0.1	55.4	0.32	0.10	0.06	17	0.97	0.109	1.2	14.9	0.34	48.4	0.023	<20	0.33
540967	Soil		3142	0.36	0.2	0.4	2.4	<0.1	77.6	1.21	0.53	0.04	5	1.35	0.187	12.9	11.0	0.20	124.4	0.003	<20	0.57
540968	Soil		656	0.34	0.4	0.7	3.5	<0.1	95.6	0.87	0.31	0.04	7	1.67	0.182	10.2	7.8	0.19	105.2	0.002	<20	0.52
540969	Soil		645	0.70	0.9	0.2	6.4	0.1	74.6	0.80	0.12	0.39	18	1.30	0.133	0.9	10.4	0.29	63.3	0.014	<20	0.28
540970	Soil		3597	4.92	1.7	<0.1	27.4	<0.1	74.6	0.50	0.18	0.13	25	1.49	0.232	0.8	7.9	0.10	98.0	0.002	<20	0.16
540971	Soil		8310	2.05	1.2	0.1	0.9	<0.1	115.8	0.77	0.07	0.08	4	2.43	0.179	<0.5	4.3	0.12	367.6	0.002	<20	0.08
540972	Soil		82	0.11	0.9	<0.1	1.8	<0.1	52.3	2.06	0.10	0.09	<2	1.12	0.118	<0.5	3.2	0.11	17.6	0.002	<20	0.07
540973	Soil		980	0.65	1.3	<0.1	0.5	<0.1	91.7	2.17	0.10	0.05	18	2.40	0.145	0.5	10.2	0.33	65.9	0.010	<20	0.23
540974	Soil		223	0.47	1.2	<0.1	0.7	<0.1	24.3	0.30	0.12	0.13	11	0.31	0.136	0.5	8.0	0.11	118.1	0.008	<20	0.25
540975	Soil		3394	0.70	1.3	<0.1	3.1	<0.1	122.2	0.09	0.24	0.05	<2	2.90	0.112	<0.5	5.2	0.11	69.7	0.001	<20	0.05
540976	Soil		286	0.43	1.1	<0.1	<0.2	<0.1	23.0	0.15	0.12	0.08	12	0.24	0.106	1.1	7.9	0.10	136.8	0.008	<20	0.21
540977	Soil		59	0.61	1.7	0.1	12.3	<0.1	46.2	0.49	0.14	0.24	13	0.66	0.116	2.4	11.4	0.17	112.8	0.011	<20	0.31
540978	Soil		2470	1.37	2.0	0.3	16.3	<0.1	139.7	1.42	0.25	0.05	22	2.48	0.180	2.9	16.2	0.24	74.8	0.007	<20	0.48
540979	Soil		753	0.21	1.0	0.1	<0.2	<0.1	15.1	0.17	0.11	0.14	5	0.38	0.149	<0.5	4.6	0.08	97.9	0.005	<20	0.12
540980	Soil		608	0.47	1.8	<0.1	2.7	<0.1	16.9	0.21	0.13	0.15	12	0.26	0.147	0.8	8.2	0.09	94.2	0.006	<20	0.17
540981	Soil		238	0.24	1.1	<0.1	<0.2	<0.1	95.0	0.43	0.12	0.07	7	1.10	0.146	<0.5	6.7	0.12	39.5	0.008	<20	0.11
540982	Soil		3135	1.90	1.2	<0.1	0.7	<0.1	110.0	0.50	0.16	0.10	9	2.44	0.179	<0.5	9.4	0.12	56.4	0.002	<20	0.15
540983	Soil		1534	0.17	0.8	<0.1	0.2	<0.1	18.4	0.12	0.13	0.08	3	0.43	0.149	<0.5	3.9	0.07	101.9	0.006	<20	0.11
540984	Soil		955	0.24	1.0	<0.1	0.3	<0.1	27.1	0.22	0.12	0.07	6	0.56	0.136	0.8	5.8	0.08	122.5	0.009	<20	0.16
540985	Soil		633	0.64	1.4	0.2	0.4	<0.1	36.4	0.29	0.12	0.06	7	0.40	0.224	3.3	4.8	0.12	91.5	0.002	<20	0.41
1115096	Soil		386	1.88	1.7	<0.1	<0.2	<0.1	38.4	0.10	0.07	0.04	61	0.30	0.061	1.1	3.5	0.50	105.7	0.149	<20	0.89
1115097	Soil		598	2.02	3.0	0.1	<0.2	<0.1	44.1	0.31	0.23	0.08	72	0.47	0.098	2.2	22.3	0.44	180.4	0.050	<20	0.80
1115098	Soil		2082	3.09	3.4	0.2	10.6	0.2	55.1	0.28	0.44	0.10	89	0.58	0.104	3.4	28.8	0.82	270.3	0.052	<20	1.34
1115099	Soil		173	1.35	2.4	0.2	5.0	<0.1	45.4	0.58	0.28	0.11	40	0.34	0.114	1.8	21.8	0.36	90.3	0.011	<20	0.62
1115100	Soil		2018	2.11	2.3	0.5	1.2	0.2	82.2	0.78	0.27	0.13	51	1.29	0.125	4.2	39.0	0.54	137.0	0.031	<20	0.98
537441	Soil		440	1.05	1.8	0.2	2.4	<0.1	57.5	0.43	0.13	0.09	23	1.22	0.108	1.9	52.6	1.05	55.3	0.019	<20	0.73
537442	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.
537443	Soil		1602	0.31	1.7	<0.1	4.9	<0.1	48.8	0.14	0.12	0.07	6	0.68	0.168	0.7	10.1	0.11	265.0	0.006	<20	0.25

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 5 of 9 Part 5

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
540964	Soil			0.007	0.10	<0.1	0.3	0.04	0.11	159	0.4	<0.02	1.1	0.60	<0.1	<0.02	0.20	13.0	0.2	<0.05	<0.1	6.88	13.9
540965	Soil			0.007	0.12	0.1	1.5	0.07	0.10	169	0.5	0.03	2.6	1.13	<0.1	<0.02	0.26	18.8	0.2	<0.05	<0.1	11.76	25.6
540966	Soil			0.007	0.08	0.1	0.5	<0.02	0.16	106	0.2	<0.02	1.1	0.36	<0.1	<0.02	0.20	5.5	0.1	<0.05	<0.1	0.98	2.6
540967	Soil			0.007	0.09	<0.1	0.5	0.09	0.18	229	0.7	<0.02	0.5	0.22	0.2	<0.02	0.04	6.2	<0.1	<0.05	<0.1	15.19	32.2
540968	Soil			0.008	0.07	<0.1	0.4	0.05	0.23	129	0.6	<0.02	0.3	0.08	0.2	<0.02	0.04	3.1	<0.1	<0.05	<0.1	12.64	19.7
540969	Soil			0.008	0.08	<0.1	0.6	0.04	0.18	107	0.3	0.02	1.0	0.45	<0.1	<0.02	0.13	10.5	0.2	<0.05	<0.1	0.65	1.4
540970	Soil			0.018	0.08	<0.1	0.3	0.09	0.24	107	0.3	<0.02	0.3	0.11	<0.1	<0.02	0.04	4.5	0.2	<0.05	<0.1	1.69	1.4
540971	Soil			0.010	0.08	<0.1	0.2	0.06	0.30	116	0.5	<0.02	0.3	0.25	<0.1	<0.02	0.03	4.7	<0.1	<0.05	<0.1	0.39	0.4
540972	Soil			0.008	0.07	<0.1	0.4	<0.02	0.19	142	0.4	0.03	0.1	0.06	<0.1	<0.02	0.02	5.4	0.1	<0.05	0.2	0.27	0.4
540973	Soil			0.006	0.11	<0.1	0.3	0.03	0.22	111	0.2	<0.02	0.9	0.32	<0.1	<0.02	0.10	21.2	<0.1	<0.05	<0.1	0.55	0.8
540974	Soil			0.005	0.10	<0.1	0.3	0.02	0.11	177	0.2	0.03	0.8	0.55	<0.1	<0.02	0.04	15.3	0.2	<0.05	<0.1	0.25	0.7
540975	Soil			0.010	0.07	<0.1	0.1	<0.02	0.21	47	0.3	<0.02	0.1	0.09	<0.1	<0.02	0.03	4.4	0.2	<0.05	0.1	0.22	<0.1
540976	Soil			0.006	0.07	<0.1	0.2	0.04	0.09	126	0.2	0.02	0.9	0.29	<0.1	<0.02	0.09	5.3	0.2	<0.05	<0.1	0.38	1.5
540977	Soil			0.007	0.08	<0.1	0.3	<0.02	0.13	117	<0.1	<0.02	1.1	0.29	<0.1	<0.02	0.17	10.0	0.2	<0.05	<0.1	2.88	4.4
540978	Soil			0.008	0.06	0.3	0.4	0.12	0.19	126	0.5	<0.02	0.9	0.40	<0.1	<0.02	0.10	7.7	<0.1	<0.05	<0.1	3.68	5.2
540979	Soil			0.006	0.14	<0.1	0.2	0.13	0.14	219	0.2	<0.02	0.4	0.31	<0.1	<0.02	0.06	10.4	0.2	<0.05	<0.1	0.25	0.7
540980	Soil			0.007	0.13	<0.1	0.2	0.09	0.12	152	0.2	<0.02	0.6	0.72	<0.1	<0.02	0.07	11.6	0.2	<0.05	<0.1	0.59	1.4
540981	Soil			0.004	0.12	<0.1	0.4	0.04	0.15	235	0.2	<0.02	0.5	0.22	<0.1	<0.02	0.06	8.5	0.1	<0.05	0.2	0.26	0.6
540982	Soil			0.009	0.08	<0.1	0.2	0.11	0.23	139	0.4	<0.02	0.3	0.22	0.1	<0.02	0.03	5.5	<0.1	<0.05	<0.1	0.78	0.7
540983	Soil			0.006	0.14	<0.1	0.3	0.11	0.11	246	0.2	<0.02	0.3	0.39	<0.1	<0.02	0.05	13.0	0.1	<0.05	<0.1	0.18	0.6
540984	Soil			0.006	0.09	<0.1	0.2	0.12	0.12	296	0.2	0.03	0.6	0.32	<0.1	<0.02	0.08	5.4	0.1	<0.05	<0.1	0.30	1.3
540985	Soil			0.007	0.17	<0.1	0.1	0.09	0.15	187	0.2	<0.02	0.5	0.30	<0.1	<0.02	0.04	12.9	<0.1	<0.05	<0.1	2.58	5.8
1115096	Soil			0.008	0.05	<0.1	0.8	<0.02	0.03	70	<0.1	<0.02	3.6	0.48	<0.1	<0.02	0.60	3.3	0.2	<0.05	<0.1	1.34	2.1
1115097	Soil			0.009	0.07	0.1	1.0	0.05	0.05	89	0.2	0.02	4.1	1.06	<0.1	<0.02	0.54	10.4	0.3	<0.05	0.1	1.29	3.8
1115098	Soil			0.010	0.11	0.1	3.0	0.05	0.07	120	0.2	0.09	4.4	1.36	<0.1	<0.02	0.32	19.1	0.2	<0.05	0.1	2.95	8.3
1115099	Soil			0.009	0.09	0.1	0.3	0.03	0.09	78	0.2	0.04	2.7	0.75	<0.1	<0.02	0.17	11.0	0.2	<0.05	<0.1	0.96	3.2
1115100	Soil			0.009	0.09	0.1	1.8	0.04	0.07	132	0.3	0.02	3.6	2.35	<0.1	<0.02	0.62	16.1	0.3	<0.05	0.1	2.69	8.3
537441	Soil			0.018	0.08	0.6	1.0	0.13	0.24	86	1.2	<0.02	1.7	1.48	0.2	<0.02	0.44	13.5	0.1	<0.05	0.3	1.88	2.7
537442	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.
537443	Soil			0.011	0.12	<0.1	<0.1	0.29	0.15	313	0.4	<0.02	0.7	1.31	<0.1	<0.02	0.09	18.1	0.1	<0.05	<0.1	0.43	1.0



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Project: Aug 12, 2011 Shipment
Report Date: September 28, 2011

Page: 5 of 9 **Part** 6

CERTIFICATE OF ANALYSIS

SMI11000354.1

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
540964	Soil	<0.02	<1	0.4	1.1	<10	<2
540965	Soil	<0.02	<1	0.4	3.9	<10	<2
540966	Soil	<0.02	<1	0.1	1.5	<10	<2
540967	Soil	<0.02	<1	0.3	0.3	<10	<2
540968	Soil	<0.02	<1	0.3	0.2	<10	<2
540969	Soil	<0.02	1	<0.1	1.5	<10	<2
540970	Soil	<0.02	2	<0.1	0.4	<10	<2
540971	Soil	<0.02	1	<0.1	0.3	<10	<2
540972	Soil	<0.02	<1	<0.1	0.1	<10	<2
540973	Soil	<0.02	1	<0.1	1.7	<10	<2
540974	Soil	<0.02	2	<0.1	0.7	<10	<2
540975	Soil	<0.02	1	<0.1	0.2	<10	<2
540976	Soil	<0.02	1	<0.1	0.6	<10	<2
540977	Soil	<0.02	<1	<0.1	0.9	<10	<2
540978	Soil	<0.02	2	0.1	1.3	<10	<2
540979	Soil	<0.02	<1	<0.1	0.3	<10	<2
540980	Soil	<0.02	<1	<0.1	0.7	<10	<2
540981	Soil	<0.02	<1	<0.1	0.6	<10	<2
540982	Soil	<0.02	2	<0.1	0.4	<10	<2
540983	Soil	<0.02	<1	<0.1	0.4	<10	<2
540984	Soil	<0.02	<1	<0.1	0.3	<10	<2
540985	Soil	<0.02	<1	0.2	0.4	<10	<2
1115096	Soil	<0.02	<1	<0.1	3.6	<10	<2
1115097	Soil	<0.02	<1	<0.1	4.9	<10	<2
1115098	Soil	0.02	<1	0.2	10.8	<10	<2
1115099	Soil	<0.02	<1	0.1	3.1	<10	<2
1115100	Soil	<0.02	<1	0.1	13.8	<10	<2
537441	Soil	<0.02	6	<0.1	4.1	<10	4
537442	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
537443	Soil	<0.02	<1	<0.1	0.6	<10	<2

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Page: 6 of 9 Part 1

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	%	%
				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
537444	Soil			13.18	46.79	6.06	68.8	141	17.6	8.4	4861	0.91	0.3	<0.1	1.2	<0.1	73.8	0.14	0.10	0.07	18	1.00	0.113
537445	Soil			16.66	68.52	4.24	18.2	72	13.1	16.1	612	0.95	<0.1	0.2	1.8	<0.1	40.2	0.28	0.08	0.08	37	0.82	0.083
537446	Soil			20.00	1339	4.39	27.9	147	44.0	208.3	675	0.58	<0.1	0.6	1.0	<0.1	34.4	0.42	0.17	0.04	15	1.88	0.174
537447	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.
537448	Soil			33.25	103.9	5.37	16.9	177	10.7	115.4	1291	0.41	<0.1	0.2	<0.2	<0.1	41.8	0.74	0.12	0.02	8	2.03	0.166
537449	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.
537450	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.
537521	Soil			3.95	22.58	4.01	26.3	28	10.4	6.5	557	1.11	0.6	<0.1	5.6	<0.1	51.6	0.09	0.07	0.03	30	1.10	0.093
537522	Soil			1.47	13.10	6.28	34.5	217	9.5	4.4	997	0.98	0.4	0.1	0.2	<0.1	41.7	0.16	0.09	0.06	27	0.58	0.116
537523	Soil			1.95	21.81	5.63	59.8	671	8.5	2.9	479	0.59	0.4	0.1	1.7	<0.1	37.3	0.24	0.12	0.07	12	0.44	0.115
537524	Soil			2.01	17.54	5.51	64.3	270	11.0	3.7	404	0.74	0.3	0.1	2.8	<0.1	51.6	0.13	0.10	0.06	20	0.53	0.091
537525	Soil			6.11	7.25	2.62	15.1	79	4.7	2.2	163	0.34	<0.1	<0.1	<0.2	<0.1	31.6	0.26	0.07	<0.02	8	0.43	0.100
540486	Soil			1.64	5.78	2.85	24.9	270	5.2	0.9	71	0.24	<0.1	0.1	<0.2	<0.1	26.5	0.11	0.07	<0.02	5	0.24	0.089
540487	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.
540488	Soil			7.47	12.21	4.05	32.7	359	7.1	3.3	572	0.74	<0.1	<0.1	<0.2	<0.1	25.2	0.26	0.06	0.02	32	0.34	0.092
540489	Soil			34.13	16.42	4.51	9.9	118	3.1	1.6	48	0.26	<0.1	0.7	4.3	0.1	59.4	0.33	0.07	<0.02	7	1.05	0.073
540490	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.
540491	Soil			2.03	15.60	2.29	37.0	91	6.7	3.8	90	0.61	0.5	<0.1	1.7	<0.1	35.3	0.33	0.07	<0.02	15	0.62	0.083
541706	Soil			9.71	21.25	1.85	45.2	69	11.2	1.5	166	0.20	<0.1	<0.1	<0.2	<0.1	31.9	0.31	0.05	<0.02	3	0.84	0.117
541707	Soil			7.40	5.32	3.57	32.0	53	4.0	0.7	73	0.11	<0.1	<0.1	<0.2	<0.1	19.3	0.02	<0.02	<0.02	<2	0.67	0.101
541708	Soil			5.01	46.59	3.18	20.7	171	16.6	5.8	192	1.85	0.3	0.2	1.7	<0.1	27.0	0.09	0.07	0.05	56	0.26	0.064
541709	Soil			4.49	34.46	4.45	22.5	126	15.7	4.8	184	1.23	0.7	0.1	0.8	<0.1	33.1	0.10	0.09	0.06	31	0.29	0.092
541710	Soil			6.52	87.99	3.18	35.8	43	23.1	10.4	483	1.54	<0.1	0.1	1.2	<0.1	59.9	0.07	0.06	0.03	44	0.97	0.081
541711	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.
541712	Soil			17.07	18.61	3.41	129.2	198	4.9	2.9	2992	0.32	<0.1	<0.1	3.3	<0.1	37.3	0.41	0.12	0.48	6	1.43	0.123
541713	Soil			15.86	45.18	5.49	34.2	86	11.6	10.6	678	1.12	0.9	0.2	2.7	<0.1	40.5	0.25	0.12	0.18	32	1.11	0.078
541714	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.
541715	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.
541716	Soil			11.21	36.46	5.07	31.7	66	7.0	20.9	1156	1.22	1.1	0.1	0.8	<0.1	53.6	0.61	0.11	0.15	31	1.64	0.081
541717	Soil			47.77	22.14	2.77	48.5	108	3.5	3.1	631	0.19	<0.1	<0.1	<0.2	0.1	32.8	0.79	0.04	0.10	3	1.09	0.087

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 6 of 9 Part 2

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	
537444	Soil	1.3	18.9	0.23	308.9	0.009	2	0.73	0.011	0.07	0.5	0.4	0.11	0.14	181	0.5	<0.02	2.0	1.37	<0.1	<0.02
537445	Soil	1.5	24.0	0.32	56.0	0.073	2	0.62	0.012	0.09	0.5	1.0	0.02	0.13	95	0.3	0.04	3.4	0.82	<0.1	<0.02
537446	Soil	11.4	11.7	0.39	17.7	0.011	5	0.61	0.011	0.08	0.3	0.6	0.05	0.30	154	3.2	0.02	1.5	0.67	0.3	<0.02
537447	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.
537448	Soil	3.4	6.6	0.20	22.4	0.007	3	0.45	0.008	0.10	0.3	0.7	0.05	0.18	168	2.2	<0.02	0.7	1.00	<0.1	0.02
537449	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.
537450	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.
537521	Soil	2.0	18.4	0.38	163.9	0.039	1	0.80	0.018	0.07	0.2	1.0	<0.02	0.11	83	0.4	<0.02	2.2	0.41	<0.1	0.02
537522	Soil	2.1	16.5	0.23	193.0	0.026	<1	0.69	0.013	0.07	0.2	0.4	0.03	0.10	152	0.3	<0.02	2.6	0.78	<0.1	<0.02
537523	Soil	1.7	10.4	0.14	198.3	0.008	<1	0.41	0.009	0.08	0.1	0.3	0.04	0.12	147	0.3	0.03	1.5	1.35	<0.1	<0.02
537524	Soil	2.0	15.6	0.17	235.8	0.019	<1	0.50	0.012	0.06	0.2	0.3	0.03	0.11	134	0.3	<0.02	2.3	0.63	<0.1	<0.02
537525	Soil	0.8	8.5	0.12	63.8	0.014	<1	0.22	0.010	0.10	0.2	0.9	0.02	0.13	177	0.7	<0.02	0.7	0.49	<0.1	<0.02
540486	Soil	1.1	7.1	0.08	88.8	0.012	<1	0.16	0.012	0.06	<0.1	0.3	0.03	0.10	192	0.5	<0.02	0.7	0.34	<0.1	<0.02
540487	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.
540488	Soil	2.3	15.4	0.18	107.8	0.032	3	0.49	0.012	0.11	0.2	0.7	0.04	0.10	89	0.3	<0.02	3.5	1.08	<0.1	<0.02
540489	Soil	1.7	5.8	0.08	52.8	0.021	1	0.22	0.011	0.07	0.2	0.9	<0.02	0.17	101	0.7	<0.02	1.1	0.20	<0.1	<0.02
540490	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.
540491	Soil	0.8	14.6	0.22	72.0	0.029	<1	0.40	0.013	0.07	0.2	1.0	<0.02	0.13	168	0.5	0.02	1.1	0.24	<0.1	<0.02
541706	Soil	0.6	7.5	0.12	50.2	0.006	2	0.14	0.008	0.05	0.1	0.7	0.05	0.21	164	0.7	<0.02	0.4	0.52	<0.1	<0.02
541707	Soil	<0.5	3.9	0.04	98.5	0.004	<1	0.08	0.007	0.05	<0.1	0.4	0.04	0.17	243	0.5	<0.02	0.1	0.16	<0.1	<0.02
541708	Soil	2.2	39.7	0.42	38.5	0.068	<1	1.19	0.018	0.05	0.4	1.2	0.03	0.07	68	0.4	0.04	5.4	0.67	<0.1	<0.02
541709	Soil	2.0	29.3	0.31	79.4	0.020	<1	0.83	0.014	0.06	0.2	0.4	0.03	0.08	52	0.4	<0.02	3.3	1.41	<0.1	<0.02
541710	Soil	1.8	31.3	0.44	127.1	0.041	1	1.02	0.015	0.05	0.6	0.9	0.04	0.10	131	0.4	0.04	4.1	0.62	<0.1	<0.02
541711	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.
541712	Soil	0.9	6.4	0.11	294.0	0.013	7	0.25	0.006	0.12	0.1	0.7	0.25	0.14	261	0.3	<0.02	0.7	1.98	<0.1	<0.02
541713	Soil	3.0	22.6	0.30	92.9	0.046	2	0.72	0.011	0.09	0.8	1.1	0.05	0.10	130	0.3	<0.02	2.8	1.30	<0.1	<0.02
541714	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.
541715	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.
541716	Soil	2.1	12.2	0.36	76.6	0.038	4	0.72	0.010	0.09	0.5	1.1	0.04	0.14	91	0.3	<0.02	2.8	1.40	<0.1	<0.02
541717	Soil	<0.5	2.8	0.13	63.7	0.005	5	0.10	0.008	0.08	<0.1	0.8	0.03	0.18	141	0.4	<0.02	0.3	0.27	<0.1	<0.02

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 6 of 9 Part 3

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	ppm	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	
537444	Soil	0.23	22.0	0.1	<0.05	<0.1	0.80	3.0	<0.02	<1	<0.1	1.7	<10	<2	12.38	50.42	6.33	74.8	145	17.3	8.3
537445	Soil	1.39	14.5	0.3	<0.05	0.4	0.89	2.6	<0.02	<1	<0.1	2.1	<10	<2	15.92	69.01	4.46	18.1	67	12.8	15.6
537446	Soil	0.21	4.5	<0.1	<0.05	0.3	8.40	6.7	<0.02	1	0.3	2.1	15	<2	19.38	1395	4.38	26.5	141	45.1	189.9
537447	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.	30.17	16.73	4.25	35.8	139	5.3	3.0
537448	Soil	0.14	9.2	<0.1	<0.05	0.2	3.04	4.5	<0.02	<1	<0.1	0.8	<10	<2	32.74	118.0	6.03	18.5	179	12.9	128.2
537449	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.	22.65	49.63	4.96	23.0	497	7.8	15.6
537450	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.	2.85	11.43	4.04	13.8	315	5.2	4.0
537521	Soil	0.80	9.0	0.1	<0.05	0.7	1.45	4.2	<0.02	<1	<0.1	3.1	<10	<2	4.20	22.76	4.24	26.2	40	9.7	5.6
537522	Soil	0.95	10.5	0.3	<0.05	<0.1	0.99	3.9	<0.02	<1	0.1	2.1	<10	<2	1.61	14.65	6.54	35.4	215	10.5	4.3
537523	Soil	0.66	12.8	0.3	<0.05	<0.1	0.79	3.1	<0.02	<1	<0.1	0.8	<10	<2	1.66	19.88	5.31	55.6	599	7.6	2.7
537524	Soil	0.83	8.4	0.3	<0.05	<0.1	1.07	3.7	<0.02	<1	<0.1	1.0	<10	<2	2.26	17.98	5.55	61.5	273	10.4	3.3
537525	Soil	0.13	6.7	<0.1	<0.05	0.2	0.40	1.2	<0.02	<1	<0.1	0.5	<10	<2	5.94	9.07	2.86	15.2	65	5.0	2.4
540486	Soil	0.35	4.4	0.1	<0.05	<0.1	0.32	2.0	<0.02	<1	<0.1	0.3	<10	<2	1.66	7.54	3.29	24.9	252	5.6	1.0
540487	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.	1.10	11.28	4.73	64.4	95	5.0	1.1
540488	Soil	1.67	12.2	0.3	<0.05	<0.1	0.69	4.4	<0.02	1	<0.1	1.3	<10	<2	6.23	12.73	3.67	29.4	328	6.3	3.0
540489	Soil	0.85	4.2	0.2	<0.05	0.5	0.89	2.7	<0.02	<1	<0.1	0.5	<10	<2	34.50	21.00	5.25	10.8	100	3.5	1.7
540490	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	17.45	2.06	50.5	54	4.3	1.1
540491	Soil	0.22	2.2	<0.1	<0.05	0.3	0.72	1.5	<0.02	<1	<0.1	1.4	<10	<2	1.75	18.27	2.55	35.5	84	6.4	3.5
541706	Soil	0.08	5.4	<0.1	<0.05	0.4	0.38	1.1	<0.02	<1	<0.1	0.2	<10	<2	10.02	25.09	2.27	49.6	70	12.3	1.8
541707	Soil	0.03	5.9	<0.1	<0.05	0.2	0.10	0.5	<0.02	<1	<0.1	<0.1	<10	<2	7.85	8.24	4.56	36.9	59	4.5	0.8
541708	Soil	2.26	8.1	0.5	<0.05	0.7	1.67	4.6	<0.02	2	<0.1	3.2	<10	<2	4.33	45.87	3.13	18.1	159	15.2	5.4
541709	Soil	0.67	29.2	0.2	<0.05	0.1	1.24	4.1	<0.02	<1	<0.1	2.6	<10	<2	3.82	33.04	4.19	19.2	110	14.0	4.3
541710	Soil	1.17	12.2	0.2	<0.05	0.3	1.31	3.6	<0.02	<1	0.1	4.8	<10	<2	5.68	86.15	3.07	35.1	38	21.8	9.3
541711	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.	16.94	104.6	1.17	17.1	50	11.0	31.4
541712	Soil	0.41	19.8	0.7	<0.05	0.1	0.41	1.8	<0.02	<1	<0.1	0.4	<10	<2	15.85	19.35	3.63	133.3	274	5.4	2.9
541713	Soil	0.86	16.5	0.3	<0.05	0.1	1.57	4.8	<0.02	<1	0.1	2.7	<10	<2	15.50	47.64	5.66	35.3	105	12.2	10.9
541714	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.	8.99	19.90	2.90	27.4	33	4.3	13.8
541715	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.	14.29	27.06	6.01	19.4	239	5.9	3.3
541716	Soil	0.76	15.7	0.3	<0.05	0.3	1.61	4.7	<0.02	<1	<0.1	3.9	<10	<2	10.67	37.87	5.06	31.8	93	8.0	21.1
541717	Soil	0.06	8.4	0.4	<0.05	0.4	0.35	0.7	<0.02	<1	<0.1	0.2	<10	<2	49.45	23.82	2.86	51.3	170	3.6	3.0

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

Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 6 of 9 Part 4

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method Analyte	Unit	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	
MDL		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	ppm	%
		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	
537444	Soil	5197	0.88	1.6	<0.1	<0.2	<0.1	86.2	0.14	0.11	0.07	20	1.07	0.114	1.4	17.5	0.23	314.4	0.009	<20	0.77	
537445	Soil	639	0.82	1.8	0.1	0.7	<0.1	44.8	0.29	0.08	0.08	35	0.90	0.090	1.5	20.5	0.31	61.5	0.076	<20	0.59	
537446	Soil	717	0.51	2.2	0.6	0.6	<0.1	38.3	0.48	0.19	0.04	14	1.91	0.176	11.6	12.5	0.41	19.3	0.011	<20	0.58	
537447	Soil	121	0.19	1.8	<0.1	2.2	<0.1	36.3	0.19	0.08	0.09	4	0.69	0.132	0.5	6.5	0.10	74.6	0.008	<20	0.18	
537448	Soil	1412	0.48	1.6	0.2	<0.2	<0.1	51.9	0.84	0.13	0.05	11	2.23	0.176	3.8	8.8	0.24	26.9	0.007	<20	0.51	
537449	Soil	367	0.62	1.5	0.2	6.7	<0.1	32.6	0.28	0.15	0.09	15	0.69	0.143	2.2	10.9	0.16	71.5	0.009	<20	0.40	
537450	Soil	65	0.52	1.6	<0.1	3.7	<0.1	24.5	0.10	0.11	0.10	19	0.19	0.064	1.2	8.7	0.09	73.1	0.029	<20	0.22	
537521	Soil	552	0.98	2.7	<0.1	<0.2	<0.1	60.3	0.09	0.09	<0.02	26	1.27	0.108	1.8	16.8	0.36	180.2	0.037	<20	0.81	
537522	Soil	975	0.99	2.6	0.1	<0.2	<0.1	47.4	0.18	0.11	0.06	30	0.62	0.117	2.1	19.2	0.24	198.2	0.032	<20	0.71	
537523	Soil	436	0.56	2.7	0.1	0.2	<0.1	38.3	0.23	0.12	0.16	12	0.39	0.112	1.6	9.4	0.13	195.1	0.007	<20	0.38	
537524	Soil	411	0.67	2.8	0.1	<0.2	<0.1	53.4	0.16	0.10	0.07	20	0.48	0.091	2.0	13.9	0.18	251.3	0.021	<20	0.49	
537525	Soil	169	0.36	4.1	<0.1	<0.2	<0.1	34.8	0.29	0.09	0.02	9	0.44	0.104	0.9	9.2	0.14	64.3	0.014	<20	0.23	
540486	Soil	71	0.26	0.5	0.1	0.8	<0.1	27.8	0.17	0.10	0.31	6	0.23	0.087	1.1	7.4	0.09	97.4	0.012	<20	0.16	
540487	Soil	481	0.23	0.7	<0.1	4.3	<0.1	19.5	0.11	0.14	0.13	10	0.31	0.116	1.1	8.6	0.10	65.0	0.028	<20	0.20	
540488	Soil	496	0.71	0.7	0.1	6.0	<0.1	25.3	0.25	0.07	0.10	33	0.29	0.084	2.1	13.7	0.18	96.2	0.029	<20	0.46	
540489	Soil	52	0.27	0.6	0.8	1.4	0.2	69.9	0.36	0.11	0.12	8	1.12	0.079	2.0	6.6	0.10	59.7	0.021	<20	0.24	
540490	Soil	276	0.18	1.3	<0.1	3.3	<0.1	52.5	0.15	0.18	0.06	3	0.62	0.097	<0.5	4.4	0.08	87.1	0.005	<20	0.11	
540491	Soil	96	0.66	1.2	0.1	1.2	<0.1	39.0	0.38	0.10	0.08	17	0.62	0.082	0.9	13.7	0.25	73.9	0.029	<20	0.40	
541706	Soil	169	0.22	0.8	<0.1	0.9	<0.1	38.5	0.34	0.10	0.09	4	0.86	0.124	0.7	9.8	0.14	55.3	0.007	<20	0.15	
541707	Soil	85	0.15	0.5	<0.1	0.7	<0.1	23.7	0.08	0.08	0.04	2	0.72	0.113	<0.5	4.9	0.05	117.0	0.005	<20	0.10	
541708	Soil	175	1.71	0.8	0.2	0.2	<0.1	28.9	0.13	0.09	0.09	56	0.25	0.064	2.1	35.8	0.44	37.5	0.082	<20	1.22	
541709	Soil	168	1.12	1.0	0.1	0.6	<0.1	34.4	0.10	0.10	0.10	31	0.25	0.083	2.0	25.9	0.31	74.1	0.025	<20	0.85	
541710	Soil	440	1.43	0.8	0.2	0.9	<0.1	61.4	0.08	0.08	0.07	46	0.93	0.077	1.8	29.9	0.48	115.0	0.056	<20	1.07	
541711	Soil	353	0.30	0.6	<0.1	1.1	<0.1	32.7	0.39	0.08	0.04	8	1.38	0.102	1.3	8.8	0.28	23.3	0.012	<20	0.26	
541712	Soil	3273	0.33	0.7	<0.1	0.4	<0.1	45.5	0.41	0.10	0.05	6	1.48	0.131	1.1	8.9	0.12	336.1	0.010	<20	0.26	
541713	Soil	727	1.17	1.0	0.2	0.4	<0.1	48.9	0.28	0.11	0.28	36	1.22	0.092	3.4	25.0	0.36	100.7	0.056	<20	0.82	
541714	Soil	60	0.39	0.4	<0.1	1.1	<0.1	38.7	0.33	0.07	0.11	11	0.73	0.071	0.8	7.1	0.12	36.5	0.026	<20	0.27	
541715	Soil	210	0.31	0.7	<0.1	0.4	<0.1	42.9	0.79	0.10	0.08	6	0.76	0.127	1.3	7.6	0.11	153.9	0.010	<20	0.33	
541716	Soil	1216	1.18	1.0	0.2	1.0	0.1	64.9	0.58	0.13	0.08	31	1.73	0.089	2.4	13.7	0.40	79.8	0.042	<20	0.77	
541717	Soil	641	0.21	0.3	<0.1	0.5	<0.1	39.6	0.86	0.06	0.03	4	1.11	0.098	0.6	4.5	0.15	67.7	0.006	<20	0.12	

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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Page: 6 of 9 Part 5

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
537444	Soil			0.011	0.07	0.4	0.2	0.11	0.15	162	0.3	0.05	2.0	1.34	<0.1	<0.02	0.17	24.1	0.2	<0.05	<0.1	0.84	2.7
537445	Soil			0.011	0.10	0.6	0.6	0.02	0.15	124	0.3	0.05	3.1	0.85	<0.1	<0.02	1.31	15.7	0.3	<0.05	0.2	0.76	2.2
537446	Soil			0.011	0.08	0.4	0.5	0.04	0.31	155	3.2	<0.02	1.5	0.69	0.2	<0.02	0.21	5.0	<0.1	<0.05	0.4	9.07	6.4
537447	Soil			0.008	0.11	0.2	0.4	<0.02	0.16	166	0.3	0.02	0.4	0.52	<0.1	<0.02	0.12	14.3	<0.1	<0.05	0.2	0.26	0.9
537448	Soil			0.010	0.11	0.3	0.5	0.05	0.20	196	2.2	<0.02	0.9	0.95	<0.1	<0.02	0.18	9.4	0.1	<0.05	0.3	3.40	4.7
537449	Soil			0.011	0.11	0.2	0.2	0.06	0.14	186	0.4	0.04	1.6	0.92	<0.1	<0.02	0.59	14.6	0.2	<0.05	0.2	1.34	3.6
537450	Soil			0.011	0.05	0.2	0.5	<0.02	0.09	96	0.2	<0.02	1.4	0.19	<0.1	<0.02	0.99	4.1	0.3	<0.05	0.3	0.44	2.0
537521	Soil			0.015	0.08	0.2	0.6	<0.02	0.13	106	0.3	<0.02	2.1	0.47	<0.1	<0.02	0.54	10.6	0.1	<0.05	0.2	1.35	3.1
537522	Soil			0.013	0.07	0.2	0.3	0.03	0.11	140	0.3	<0.02	2.8	0.79	<0.1	<0.02	0.89	11.1	0.3	<0.05	<0.1	1.05	3.8
537523	Soil			0.009	0.08	0.1	0.1	0.04	0.13	138	0.2	<0.02	1.4	1.31	<0.1	<0.02	0.46	12.6	0.2	<0.05	<0.1	0.62	2.6
537524	Soil			0.011	0.06	0.2	0.2	0.03	0.12	132	0.2	<0.02	2.1	0.64	<0.1	<0.02	0.67	8.9	0.3	<0.05	<0.1	0.99	3.4
537525	Soil			0.011	0.11	0.2	0.8	0.03	0.13	149	0.4	<0.02	0.8	0.50	<0.1	<0.02	0.17	6.7	0.1	<0.05	0.3	0.44	1.2
540486	Soil			0.011	0.06	<0.1	0.2	0.03	0.12	156	0.2	<0.02	0.7	0.36	<0.1	<0.02	0.36	4.3	0.2	<0.05	<0.1	0.29	2.3
540487	Soil			0.009	0.13	<0.1	0.2	0.06	0.11	130	0.3	<0.02	1.6	0.39	<0.1	<0.02	1.13	8.3	0.4	<0.05	<0.1	0.37	2.5
540488	Soil			0.010	0.10	0.1	0.5	0.03	0.10	82	0.2	<0.02	3.2	0.93	<0.1	<0.02	1.33	10.8	0.4	<0.05	<0.1	0.64	4.2
540489	Soil			0.009	0.07	<0.1	0.6	<0.02	0.18	122	0.6	<0.02	1.2	0.22	<0.1	<0.02	0.87	4.8	0.3	<0.05	0.7	1.02	3.5
540490	Soil			0.011	0.08	<0.1	0.3	<0.02	0.16	109	0.4	0.02	0.3	0.15	<0.1	<0.02	0.10	5.5	0.1	<0.05	0.4	0.25	1.0
540491	Soil			0.011	0.06	0.2	0.8	<0.02	0.13	153	0.3	<0.02	1.4	0.25	<0.1	<0.02	0.26	2.5	0.1	<0.05	0.4	0.77	1.9
541706	Soil			0.007	0.05	0.2	0.6	0.04	0.21	163	0.5	<0.02	0.5	0.56	<0.1	<0.02	0.13	5.8	<0.1	<0.05	0.5	0.46	1.5
541707	Soil			0.006	0.05	<0.1	0.2	0.03	0.18	227	0.3	<0.02	0.2	0.20	<0.1	<0.02	0.06	6.8	0.1	<0.05	0.4	0.18	1.1
541708	Soil			0.016	0.05	0.4	0.9	0.03	0.07	68	0.3	0.03	5.1	0.76	<0.1	0.02	1.85	9.5	0.5	<0.05	0.4	1.70	4.5
541709	Soil			0.011	0.06	1.1	0.3	0.03	0.08	76	0.2	0.03	2.9	1.43	<0.1	<0.02	0.49	29.9	0.3	<0.05	<0.1	1.23	4.1
541710	Soil			0.014	0.05	0.6	0.7	0.04	0.09	117	0.2	0.04	4.0	0.73	<0.1	<0.02	1.08	13.4	0.2	<0.05	0.1	1.43	3.8
541711	Soil			0.019	0.17	0.1	0.5	<0.02	0.26	80	0.9	<0.02	0.6	0.39	<0.1	<0.02	0.10	9.0	<0.1	<0.05	0.2	0.62	2.1
541712	Soil			0.005	0.13	0.1	0.2	0.29	0.14	298	0.4	0.05	0.8	1.95	<0.1	<0.02	0.37	19.8	0.2	<0.05	<0.1	0.48	2.3
541713	Soil			0.009	0.09	0.6	1.1	0.02	0.11	132	0.3	<0.02	3.2	1.41	<0.1	<0.02	0.88	18.8	0.2	<0.05	0.2	1.85	5.8
541714	Soil			0.009	0.04	0.2	0.5	<0.02	0.16	96	0.4	0.02	1.2	0.25	<0.1	0.02	0.65	4.9	0.2	<0.05	0.5	0.64	1.7
541715	Soil			0.007	0.10	0.3	0.3	0.02	0.14	119	0.3	<0.02	0.7	1.38	<0.1	<0.02	0.18	18.5	0.1	<0.05	<0.1	0.64	2.6
541716	Soil			0.009	0.09	0.4	1.1	0.04	0.14	101	0.5	<0.02	2.8	1.52	<0.1	<0.02	0.76	16.8	0.2	<0.05	0.2	1.82	5.1
541717	Soil			0.007	0.08	<0.1	0.6	0.05	0.19	176	0.5	<0.02	0.3	0.32	<0.1	<0.02	0.09	8.3	<0.1	<0.05	0.2	0.41	1.2



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Report Date: September 28, 2011

Page: 6 of 9 **Part** 6

CERTIFICATE OF ANALYSIS

SMI11000354.1

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
537444	Soil	<0.02	<1	<0.1	1.6	<10	<2
537445	Soil	<0.02	<1	<0.1	1.8	<10	<2
537446	Soil	<0.02	5	0.3	2.1	<10	<2
537447	Soil	<0.02	<1	<0.1	0.4	<10	<2
537448	Soil	<0.02	4	0.1	1.2	<10	<2
537449	Soil	<0.02	<1	0.1	1.4	<10	<2
537450	Soil	<0.02	<1	<0.1	0.5	<10	<2
537521	Soil	<0.02	<1	<0.1	2.5	<10	<2
537522	Soil	<0.02	<1	<0.1	1.9	<10	<2
537523	Soil	<0.02	<1	0.1	0.9	<10	<2
537524	Soil	<0.02	<1	<0.1	1.1	<10	<2
537525	Soil	<0.02	<1	<0.1	0.8	<10	<2
540486	Soil	<0.02	<1	<0.1	0.4	<10	<2
540487	Soil	<0.02	<1	<0.1	0.4	<10	<2
540488	Soil	<0.02	<1	<0.1	1.3	<10	<2
540489	Soil	<0.02	9	<0.1	0.6	<10	<2
540490	Soil	<0.02	2	<0.1	0.3	<10	<2
540491	Soil	<0.02	<1	<0.1	1.8	<10	<2
541706	Soil	<0.02	<1	<0.1	0.3	<10	<2
541707	Soil	<0.02	<1	<0.1	0.1	<10	<2
541708	Soil	<0.02	<1	<0.1	3.2	<10	<2
541709	Soil	<0.02	<1	<0.1	2.2	<10	<2
541710	Soil	<0.02	<1	0.1	4.3	<10	<2
541711	Soil	<0.02	<1	<0.1	0.9	<10	<2
541712	Soil	<0.02	<1	<0.1	0.5	<10	<2
541713	Soil	<0.02	<1	<0.1	3.2	<10	<2
541714	Soil	<0.02	<1	<0.1	0.7	<10	<2
541715	Soil	<0.02	<1	<0.1	0.5	<10	<2
541716	Soil	<0.02	<1	<0.1	4.2	<10	<2
541717	Soil	<0.02	<1	<0.1	0.3	<10	<2



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 Report Date: September 28, 2011

Page: 7 of 9 Part 1

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	%	%
				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
541718	Soil			1.67	12.53	6.94	15.2	269	8.0	2.9	958	0.70	0.8	0.1	4.1	<0.1	41.0	0.14	0.13	0.14	22	0.65	0.064
541719	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.
541720	Soil			1.56	11.13	5.52	21.0	323	8.3	3.6	353	1.20	1.5	0.2	3.4	<0.1	28.9	0.13	0.11	0.10	41	0.40	0.069
541721	Soil			9.34	15.41	3.30	32.5	184	5.4	4.6	2258	0.53	0.7	<0.1	2.1	0.2	54.9	1.93	0.10	0.06	13	1.50	0.085
541724	Soil			0.46	10.58	5.14	30.8	93	8.0	3.6	1367	1.12	1.3	0.1	1.0	<0.1	19.9	0.07	0.11	0.07	36	0.22	0.072
541725	Soil			0.50	6.54	3.17	19.6	419	3.9	1.2	175	0.72	3.4	<0.1	1.4	<0.1	30.5	0.06	0.08	0.05	22	0.20	0.103
541726	Soil			0.66	9.46	4.13	18.1	175	10.1	3.2	127	1.25	2.4	0.1	1.8	<0.1	22.5	0.04	0.10	0.05	45	0.13	0.063
541727	Soil			0.58	7.92	3.67	20.3	63	3.4	1.0	103	0.37	3.0	<0.1	<0.2	<0.1	15.9	0.10	0.11	0.06	13	0.29	0.085
541728	Soil			1.85	77.72	2.22	11.7	335	5.2	4.1	620	0.61	1.4	1.8	3.1	0.1	73.3	0.27	0.34	0.05	17	2.94	0.214
541729	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.
541730	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.
541731	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.
541732	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.
541733	Soil			0.96	11.75	2.49	14.1	305	2.8	1.5	47	0.47	2.3	0.2	1.3	<0.1	21.4	0.23	0.07	0.07	7	0.23	0.144
541734	Soil			5.18	131.2	3.78	37.2	356	16.2	11.8	548	1.96	2.7	1.2	5.5	<0.1	40.5	0.27	0.13	0.08	47	0.94	0.122
541735	Soil			6.55	365.9	5.18	39.2	179	14.7	81.6	1429	0.56	1.8	0.4	3.1	0.1	45.2	2.06	0.16	0.07	11	1.58	0.111
541736	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.
541737	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.
541738	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.
541739	Soil			4.60	77.85	3.75	52.2	519	17.1	9.6	359	2.70	3.2	4.2	5.4	0.1	26.4	0.18	0.09	0.07	67	0.24	0.084
541740	Soil			2.70	21.07	5.76	43.3	278	9.6	9.2	796	1.80	2.4	0.5	2.8	<0.1	33.5	0.29	0.13	0.10	56	0.34	0.074
541741	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.
541742	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.
541743	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.
541744	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.
541745	Soil			0.69	12.88	3.99	19.2	353	5.5	2.8	98	0.89	2.4	0.3	1.8	<0.1	29.0	0.09	0.11	0.14	17	0.26	0.173
541746	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.
541747	Soil			0.43	13.04	3.41	41.4	96	3.3	1.9	285	0.18	6.0	<0.1	<0.2	<0.1	36.4	0.22	0.10	0.05	3	0.51	0.180
541748	Soil			0.46	10.02	4.34	24.8	229	3.1	2.2	127	0.22	5.7	<0.1	<0.2	<0.1	32.2	0.24	0.10	0.04	6	0.33	0.102
541749	Soil			0.52	12.44	4.55	19.7	291	4.9	2.3	73	0.72	1.6	0.2	5.2	<0.1	32.0	0.15	0.10	0.13	22	0.28	0.064

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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 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 7 of 9 Part 2

CERTIFICATE OF ANALYSIS

SMI11000354.1

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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	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	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
541718	Soil	3.0	15.5	0.15	183.8	0.023	1	0.48	0.010	0.05	0.1	0.4	0.06	0.07	98	<0.1	<0.02	2.8	0.84	<0.1	<0.02
541719	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.
541720	Soil	2.1	18.0	0.24	93.1	0.060	1	0.74	0.012	0.05	0.2	0.8	0.02	0.08	100	0.3	<0.02	4.4	0.43	<0.1	<0.02
541721	Soil	0.9	9.2	0.27	154.7	0.019	5	0.32	0.013	0.08	0.2	0.8	0.05	0.15	280	0.4	<0.02	1.1	0.48	<0.1	0.02
541724	Soil	3.0	18.5	0.29	100.2	0.063	<1	0.54	0.010	0.06	0.1	0.5	0.11	0.06	138	<0.1	<0.02	5.1	0.52	<0.1	<0.02
541725	Soil	1.0	15.5	0.08	87.7	0.015	1	0.23	0.010	0.09	<0.1	0.3	0.04	0.09	207	0.3	0.04	1.3	0.62	<0.1	<0.02
541726	Soil	2.0	29.4	0.25	51.5	0.087	1	0.49	0.009	0.06	<0.1	0.4	0.04	0.04	38	0.2	<0.02	4.4	0.80	<0.1	<0.02
541727	Soil	0.8	10.8	0.05	56.0	0.023	2	0.13	0.009	0.08	<0.1	0.4	0.03	0.09	165	<0.1	<0.02	0.7	0.36	<0.1	<0.02
541728	Soil	24.4	16.4	0.16	130.2	0.008	3	1.16	0.008	0.06	<0.1	0.7	0.04	0.27	138	1.5	<0.02	1.8	0.46	0.2	0.02
541729	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.
541730	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.
541731	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.
541732	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.
541733	Soil	2.1	4.6	0.06	95.3	0.007	1	0.47	0.008	0.08	<0.1	0.4	<0.02	0.15	139	0.3	<0.02	1.0	0.31	<0.1	<0.02
541734	Soil	7.2	30.7	0.61	116.2	0.029	1	1.59	0.014	0.08	0.2	1.4	0.09	0.18	66	0.7	0.06	4.6	1.17	<0.1	<0.02
541735	Soil	3.5	7.9	0.16	114.8	0.015	4	0.45	0.008	0.08	0.3	1.0	0.23	0.23	185	0.7	0.02	1.1	0.85	<0.1	<0.02
541736	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.
541737	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.
541738	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.
541739	Soil	6.6	41.3	0.70	108.7	0.051	1	2.08	0.012	0.07	0.1	2.0	0.09	0.09	88	0.7	<0.02	6.0	1.37	<0.1	0.02
541740	Soil	3.2	24.4	0.40	94.1	0.068	<1	1.14	0.012	0.07	0.2	1.2	0.06	0.09	76	0.2	<0.02	5.7	1.13	<0.1	<0.02
541741	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.
541742	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.
541743	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.
541744	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.
541745	Soil	2.5	13.6	0.15	106.6	0.003	<1	0.86	0.011	0.06	<0.1	0.2	0.07	0.14	192	0.2	<0.02	2.3	0.93	<0.1	<0.02
541746	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.
541747	Soil	0.8	4.2	0.08	136.1	0.006	1	0.22	0.013	0.12	<0.1	0.5	0.09	0.17	198	0.4	<0.02	0.4	0.67	<0.1	<0.02
541748	Soil	1.3	5.4	0.07	136.2	0.012	<1	0.29	0.009	0.08	<0.1	0.3	<0.02	0.11	137	0.2	<0.02	1.0	0.29	<0.1	<0.02
541749	Soil	2.9	11.2	0.13	78.6	0.025	1	0.66	0.008	0.05	<0.1	0.3	0.03	0.07	68	0.2	<0.02	3.4	0.45	<0.1	<0.02

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



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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 7 of 9 Part 3

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	MDL	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	
541718	Soil	1.10	9.1	0.7	<0.05	<0.1	1.01	5.3	<0.02	<1	<0.1	1.1	<10	<2	1.39	12.41	6.95	15.2	287	8.1	3.0
541719	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.	1.97	14.95	4.19	50.1	162	11.4	6.8
541720	Soil	2.03	8.3	0.6	<0.05	0.3	1.21	3.9	<0.02	<1	<0.1	2.2	<10	<2	1.46	11.04	5.31	22.1	319	8.3	3.4
541721	Soil	0.16	5.6	0.1	<0.05	0.3	0.61	1.5	<0.02	<1	<0.1	1.4	<10	<2	8.91	16.07	3.47	32.9	228	6.8	4.7
541724	Soil	1.63	6.6	0.9	<0.05	0.1	0.96	6.2	<0.02	<1	<0.1	1.6	<10	<2	0.46	10.17	4.85	27.3	132	8.5	3.5
541725	Soil	0.40	9.1	0.4	<0.05	<0.1	0.41	1.9	<0.02	<1	<0.1	0.4	<10	<2	0.54	6.65	3.11	18.2	423	4.5	1.2
541726	Soil	0.88	7.4	0.4	<0.05	<0.1	0.94	4.0	<0.02	<1	<0.1	1.5	<10	<2	0.61	9.13	4.16	18.7	229	9.9	3.1
541727	Soil	0.52	5.3	0.4	<0.05	<0.1	0.25	1.5	<0.02	<1	<0.1	0.2	<10	<2	0.66	8.11	3.59	19.5	89	3.7	0.9
541728	Soil	0.37	3.4	0.2	<0.05	0.5	21.90	9.3	<0.02	3	0.5	1.8	<10	<2	1.74	73.27	2.06	11.2	342	5.1	3.7
541729	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.	1.54	13.12	4.84	30.1	108	5.9	4.9
541730	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.	0.65	9.81	4.27	15.3	214	4.5	1.5
541731	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.	0.67	11.16	4.67	35.4	169	3.8	1.4
541732	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.	0.58	14.06	1.70	39.6	117	1.5	0.8
541733	Soil	0.26	2.7	0.3	<0.05	0.1	1.09	3.6	<0.02	<1	<0.1	0.3	<10	<2	0.91	11.53	2.39	13.2	354	2.8	1.5
541734	Soil	1.28	11.0	0.3	<0.05	0.4	6.68	9.7	<0.02	<1	0.2	7.0	<10	<2	5.41	141.5	4.12	38.8	397	16.8	12.4
541735	Soil	0.38	7.6	0.2	<0.05	0.6	3.39	4.1	<0.02	<1	0.1	1.8	<10	<2	6.72	378.1	5.58	38.8	221	15.6	84.3
541736	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	28.22	4.05	23.6	383	5.2	4.3
541737	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.	1.15	24.10	4.19	27.2	353	7.0	3.5
541738	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.	1.38	16.03	3.77	19.4	384	4.1	1.7
541739	Soil	1.71	5.5	0.5	<0.05	0.8	8.07	11.1	<0.02	<1	0.4	10.8	<10	<2	4.98	102.2	4.87	64.4	660	20.3	11.5
541740	Soil	1.70	8.3	0.5	<0.05	0.4	1.74	6.0	<0.02	<1	0.1	4.7	<10	<2	2.89	24.54	6.57	45.0	317	11.4	10.3
541741	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.	2.49	47.16	4.22	35.2	596	12.4	6.7
541742	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.	5.02	38.54	2.72	63.7	285	6.0	29.6
541743	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.	2.02	46.54	3.69	29.6	573	9.3	13.7
541744	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.	4.44	26.32	5.32	30.0	766	26.3	25.6
541745	Soil	0.35	8.3	0.3	<0.05	<0.1	1.59	4.7	<0.02	<1	0.1	1.2	<10	<2	0.72	15.21	4.85	20.9	421	6.0	3.1
541746	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	10.71	4.21	24.7	104	4.1	1.9
541747	Soil	0.13	9.3	<0.1	<0.05	0.4	0.62	1.5	<0.02	<1	<0.1	0.2	<10	2	0.50	14.64	3.99	41.2	136	3.9	2.0
541748	Soil	0.42	5.7	0.2	<0.05	0.2	0.67	2.2	<0.02	<1	<0.1	0.2	<10	<2	0.64	11.28	5.32	27.2	270	3.6	2.3
541749	Soil	1.24	5.2	0.5	<0.05	0.1	1.54	5.4	0.02	<1	<0.1	1.1	<10	<2	0.53	14.36	5.29	22.5	342	5.2	2.4

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 7 of 9 Part 4

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	
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	
541718	Soil	901	0.79	0.6	0.2	<0.2	<0.1	47.6	0.14	0.13	0.14	28	0.70	0.065	3.5	17.3	0.18	185.5	0.031	<20	0.57	
541719	Soil	629	1.46	0.9	<0.1	0.4	<0.1	61.7	0.11	0.08	0.05	50	0.61	0.101	1.4	22.2	0.48	113.5	0.065	<20	0.86	
541720	Soil	325	1.32	0.9	0.2	2.0	<0.1	34.6	0.12	0.12	0.09	50	0.40	0.071	2.4	19.6	0.28	89.3	0.071	<20	0.88	
541721	Soil	2522	0.67	1.0	<0.1	2.0	<0.1	64.6	1.90	0.13	<0.02	17	1.58	0.092	1.0	11.9	0.32	161.2	0.019	<20	0.38	
541724	Soil	1406	1.23	0.6	0.1	2.6	<0.1	24.8	0.06	0.09	0.09	41	0.21	0.068	3.2	20.2	0.32	96.5	0.059	<20	0.66	
541725	Soil	169	0.70	0.4	<0.1	0.3	<0.1	34.6	0.04	0.09	0.03	22	0.19	0.105	1.1	14.9	0.08	87.3	0.013	<20	0.25	
541726	Soil	138	1.29	0.8	0.2	<0.2	<0.1	28.3	0.04	0.07	0.06	49	0.15	0.065	2.2	28.6	0.28	53.4	0.082	<20	0.61	
541727	Soil	110	0.37	0.6	<0.1	1.4	<0.1	19.2	0.10	0.10	0.05	13	0.29	0.092	0.9	10.9	0.06	61.7	0.021	<20	0.14	
541728	Soil	598	0.59	0.6	1.8	2.9	<0.1	80.5	0.30	0.35	0.02	16	2.98	0.206	24.7	16.0	0.16	128.7	0.006	<20	1.15	
541729	Soil	1682	1.03	0.6	0.2	1.8	<0.1	27.9	0.09	0.12	0.06	28	0.36	0.095	1.8	18.2	0.22	180.0	0.019	<20	0.39	
541730	Soil	114	0.91	0.5	<0.1	2.2	<0.1	25.7	0.11	0.11	0.06	36	0.15	0.069	1.7	22.7	0.10	56.3	0.094	<20	0.26	
541731	Soil	972	0.87	0.7	<0.1	2.4	<0.1	24.6	0.06	0.11	0.05	24	0.24	0.093	1.8	17.9	0.06	106.1	0.011	<20	0.19	
541732	Soil	227	0.10	0.3	<0.1	1.5	<0.1	15.2	0.31	0.05	<0.02	<2	0.32	0.104	<0.5	3.1	0.04	356.3	0.003	<20	0.08	
541733	Soil	47	0.50	0.4	0.2	2.8	<0.1	24.0	0.24	0.08	0.03	7	0.23	0.142	2.1	5.6	0.06	96.8	0.004	<20	0.47	
541734	Soil	593	2.02	0.9	1.4	4.7	0.1	52.5	0.30	0.14	0.08	51	1.02	0.141	8.7	34.8	0.68	132.3	0.044	<20	1.76	
541735	Soil	1633	0.64	0.8	0.4	3.5	<0.1	54.3	2.16	0.17	0.06	13	1.65	0.119	3.9	9.9	0.19	126.0	0.011	<20	0.50	
541736	Soil	266	0.43	0.9	<0.1	2.5	<0.1	21.3	0.18	0.15	0.09	8	0.25	0.111	1.2	9.1	0.09	53.8	0.007	<20	0.23	
541737	Soil	301	1.16	1.1	0.2	4.7	<0.1	27.7	0.17	0.15	0.05	34	0.34	0.101	2.0	18.2	0.26	53.0	0.038	<20	0.66	
541738	Soil	204	0.35	0.6	0.2	1.5	<0.1	39.6	0.05	0.07	0.04	9	0.33	0.105	1.0	6.4	0.09	111.5	0.006	<20	0.22	
541739	Soil	415	3.00	3.1	5.5	4.0	0.2	36.0	0.24	0.11	0.11	76	0.32	0.098	8.6	51.8	0.79	128.6	0.074	<20	2.44	
541740	Soil	847	1.82	1.5	0.5	12.9	<0.1	38.4	0.30	0.11	0.13	59	0.34	0.075	3.5	27.9	0.42	100.1	0.075	<20	1.20	
541741	Soil	204	1.54	1.7	1.9	2.2	<0.1	47.3	0.31	0.13	0.11	41	0.79	0.135	5.4	30.3	0.47	99.3	0.038	<20	1.43	
541742	Soil	8073	1.99	1.5	0.4	3.5	<0.1	73.8	0.71	0.16	0.04	8	1.28	0.144	4.2	6.3	0.10	243.3	0.004	<20	0.36	
541743	Soil	184	0.78	1.4	1.1	3.1	<0.1	64.9	0.68	0.13	0.07	19	0.98	0.098	7.0	13.8	0.23	96.5	0.019	<20	0.80	
541744	Soil	1252	1.55	1.7	0.5	3.4	<0.1	41.7	0.31	0.17	0.09	49	0.44	0.120	3.9	71.2	0.50	122.3	0.026	<20	1.23	
541745	Soil	114	0.88	1.7	0.4	4.6	<0.1	36.6	0.10	0.11	0.08	17	0.30	0.183	3.0	16.6	0.16	120.9	0.004	<20	0.89	
541746	Soil	276	0.40	1.2	0.1	0.8	<0.1	28.4	0.10	0.11	0.06	14	0.44	0.101	1.4	8.8	0.08	111.8	0.016	<20	0.28	
541747	Soil	307	0.17	1.2	0.1	1.4	<0.1	43.8	0.21	0.10	0.04	3	0.55	0.179	0.9	4.4	0.08	152.7	0.003	<20	0.22	
541748	Soil	139	0.24	1.1	<0.1	0.6	<0.1	38.2	0.28	0.11	0.08	7	0.37	0.097	1.4	6.2	0.07	155.7	0.009	<20	0.32	
541749	Soil	91	0.78	1.1	0.2	1.8	<0.1	40.3	0.16	0.08	0.10	24	0.34	0.067	3.5	13.6	0.15	91.5	0.032	<20	0.71	

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 7 of 9 Part 5

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
541718	Soil			0.009	0.05	0.1	0.3	0.07	0.07	95	0.2	<0.02	3.1	0.89	<0.1	<0.02	0.96	9.9	0.6	<0.05	<0.1	1.34	6.6
541719	Soil			0.014	0.09	0.3	0.8	0.04	0.08	100	0.2	0.04	3.3	0.47	<0.1	<0.02	0.78	11.8	0.2	<0.05	0.1	1.57	3.0
541720	Soil			0.011	0.05	0.2	0.6	0.03	0.08	94	0.2	0.05	4.6	0.45	<0.1	<0.02	1.94	8.7	0.5	<0.05	0.3	1.44	4.7
541721	Soil			0.013	0.08	0.1	0.8	0.06	0.15	287	0.5	<0.02	1.2	0.47	<0.1	<0.02	0.17	5.4	0.1	<0.05	0.2	0.74	2.0
541724	Soil			0.009	0.06	<0.1	0.4	0.12	0.06	100	0.2	<0.02	5.0	0.44	<0.1	<0.02	1.81	5.8	0.8	<0.05	0.1	1.12	6.4
541725	Soil			0.009	0.09	<0.1	0.1	0.05	0.09	175	0.3	0.05	1.5	0.53	<0.1	<0.02	0.50	8.1	0.2	<0.05	<0.1	0.47	2.4
541726	Soil			0.008	0.06	<0.1	0.3	0.05	0.04	59	0.2	<0.02	4.6	0.73	<0.1	<0.02	1.43	6.9	0.5	<0.05	0.3	1.03	4.4
541727	Soil			0.007	0.08	<0.1	0.2	0.04	0.09	183	0.2	<0.02	0.9	0.35	<0.1	<0.02	0.73	5.5	0.2	<0.05	0.1	0.33	2.0
541728	Soil			0.006	0.06	<0.1	0.4	0.04	0.25	123	1.5	<0.02	1.7	0.46	<0.1	<0.02	0.29	3.5	0.1	<0.05	0.1	21.55	9.6
541729	Soil			0.007	0.09	<0.1	0.3	0.16	0.09	138	0.2	0.03	1.9	0.61	<0.1	<0.02	0.24	7.2	0.2	<0.05	<0.1	0.78	3.7
541730	Soil			0.006	0.05	<0.1	0.4	0.07	0.06	96	0.1	<0.02	2.5	0.72	<0.1	<0.02	1.43	5.1	0.5	<0.05	0.3	0.62	3.6
541731	Soil			0.007	0.07	0.1	0.3	0.17	0.08	164	0.2	<0.02	1.0	0.77	<0.1	<0.02	0.30	6.2	0.3	<0.05	<0.1	0.54	3.6
541732	Soil			0.006	0.06	<0.1	0.2	0.06	0.13	154	0.2	0.02	0.2	0.19	<0.1	<0.02	0.06	4.6	<0.1	<0.05	0.1	0.14	0.8
541733	Soil			0.008	0.08	<0.1	<0.1	<0.02	0.16	143	0.4	<0.02	0.9	0.29	<0.1	<0.02	0.38	2.3	0.2	<0.05	<0.1	1.11	3.8
541734	Soil			0.016	0.09	0.1	1.4	0.12	0.18	103	0.6	0.05	5.1	1.38	<0.1	0.02	1.35	12.5	0.4	<0.05	0.6	7.65	11.7
541735	Soil			0.008	0.08	0.3	0.5	0.26	0.24	194	0.7	0.03	1.2	0.83	<0.1	<0.02	0.35	7.0	0.2	<0.05	0.4	3.71	4.8
541736	Soil			0.010	0.08	<0.1	0.1	0.09	0.10	134	0.2	0.03	0.7	0.46	<0.1	<0.02	0.23	5.0	0.3	<0.05	<0.1	0.56	2.1
541737	Soil			0.009	0.07	0.1	0.5	0.08	0.10	111	0.3	<0.02	2.6	0.83	<0.1	<0.02	0.97	7.8	0.3	<0.05	0.4	1.58	3.6
541738	Soil			0.010	0.07	<0.1	0.2	0.05	0.14	216	0.5	<0.02	0.7	0.44	<0.1	<0.02	0.21	5.6	0.1	<0.05	<0.1	0.37	1.5
541739	Soil			0.014	0.09	0.2	2.8	0.12	0.09	117	1.3	0.02	7.1	1.69	<0.1	0.04	1.53	6.9	0.6	<0.05	1.3	10.25	13.8
541740	Soil			0.012	0.08	0.3	1.3	0.07	0.09	79	0.5	<0.02	5.5	1.18	<0.1	0.02	1.46	9.0	0.6	<0.05	0.8	1.91	6.5
541741	Soil			0.025	0.09	0.2	1.5	0.03	0.21	118	1.5	0.03	4.6	0.82	<0.1	0.03	1.57	4.8	0.4	<0.05	1.1	4.66	7.8
541742	Soil			0.034	0.06	<0.1	0.6	0.12	0.25	146	1.0	<0.02	0.6	0.21	<0.1	<0.02	0.16	3.7	<0.1	<0.05	0.1	5.29	5.4
541743	Soil			0.018	0.10	<0.1	0.7	0.04	0.18	127	0.8	<0.02	2.0	0.30	<0.1	<0.02	0.80	4.3	0.3	<0.05	0.7	5.25	10.6
541744	Soil			0.015	0.09	<0.1	0.5	0.09	0.16	103	0.8	<0.02	4.2	1.76	<0.1	<0.02	0.44	9.8	0.3	<0.05	<0.1	2.57	7.0
541745	Soil			0.009	0.06	0.5	0.2	0.08	0.14	201	0.6	<0.02	2.5	1.04	<0.1	<0.02	0.34	9.1	0.3	<0.05	<0.1	1.95	5.6
541746	Soil			0.011	0.10	<0.1	0.3	0.07	0.11	147	0.4	<0.02	1.4	0.54	<0.1	<0.02	0.43	6.5	0.2	<0.05	<0.1	0.73	2.4
541747	Soil			0.014	0.12	<0.1	<0.1	0.11	0.16	236	0.6	<0.02	0.4	0.62	<0.1	<0.02	0.10	10.2	<0.1	<0.05	<0.1	0.67	1.7
541748	Soil			0.010	0.08	<0.1	0.1	0.03	0.12	143	0.5	<0.02	1.0	0.26	<0.1	<0.02	0.52	5.3	0.2	<0.05	<0.1	0.82	2.5
541749	Soil			0.010	0.05	<0.1	0.4	0.03	0.08	77	0.4	0.02	3.7	0.43	<0.1	<0.02	1.45	5.7	0.5	<0.05	0.3	1.91	6.9



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Project: Aug 12, 2011 Shipment
Report Date: September 28, 2011

Page: 7 of 9 **Part** 6

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	Unit	MDL	1F In ppm	1F Re ppb	1F Be ppm	1F Li ppm	1F Pd ppb	1F Pt ppb
				0.02	1	0.1	0.1	10	2
541718	Soil			<0.02	<1	<0.1	1.0	<10	<2
541719	Soil			<0.02	<1	<0.1	3.4	<10	<2
541720	Soil			<0.02	<1	<0.1	2.5	<10	<2
541721	Soil			<0.02	<1	<0.1	1.6	<10	<2
541724	Soil			<0.02	<1	<0.1	1.7	<10	<2
541725	Soil			<0.02	<1	<0.1	0.4	<10	<2
541726	Soil			<0.02	<1	<0.1	1.7	<10	<2
541727	Soil			<0.02	<1	<0.1	0.2	<10	<2
541728	Soil			<0.02	2	0.4	2.0	12	<2
541729	Soil			<0.02	<1	<0.1	1.5	<10	<2
541730	Soil			<0.02	<1	<0.1	0.4	<10	<2
541731	Soil			<0.02	<1	<0.1	0.5	<10	<2
541732	Soil			<0.02	<1	<0.1	0.1	<10	<2
541733	Soil			<0.02	<1	<0.1	0.4	<10	<2
541734	Soil			<0.02	<1	0.3	8.6	<10	<2
541735	Soil			<0.02	<1	<0.1	2.1	<10	<2
541736	Soil			<0.02	<1	<0.1	0.6	<10	<2
541737	Soil			<0.02	<1	0.1	1.9	<10	<2
541738	Soil			<0.02	<1	<0.1	0.2	<10	<2
541739	Soil			0.02	3	0.3	10.5	<10	<2
541740	Soil			<0.02	2	0.2	3.9	<10	<2
541741	Soil			<0.02	<1	<0.1	5.2	<10	<2
541742	Soil			<0.02	1	0.2	0.3	<10	3
541743	Soil			<0.02	2	0.1	2.4	<10	<2
541744	Soil			<0.02	<1	0.3	3.9	<10	2
541745	Soil			<0.02	<1	0.4	1.1	<10	<2
541746	Soil			<0.02	<1	<0.1	0.4	<10	<2
541747	Soil			<0.02	2	0.2	0.1	<10	<2
541748	Soil			<0.02	<1	<0.1	0.2	<10	<2
541749	Soil			<0.02	2	<0.1	1.2	<10	<2

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



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 1700 - 750 W. Pender Street
 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 8 of 9 Part 1

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	%	%
				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
541750	Soil			3.06	40.69	6.28	46.8	292	8.5	15.4	3138	0.61	3.7	0.2	4.6	<0.1	31.1	0.59	0.15	0.11	10	0.56	0.147
541751	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.
537422	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.
537423	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.
537424	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.
537425	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.
537426	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.
537427	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.
537428	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.
537429	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.
537430	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.
537431	Soil			1.63	29.31	6.59	27.4	486	11.1	6.9	1153	1.12	2.1	0.1	1.0	<0.1	58.6	0.08	0.11	0.12	31	0.80	0.086
537432	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.
537433	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.
537434	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.
537435	Soil			1.61	21.74	9.44	24.1	235	11.1	3.2	119	0.66	3.0	0.1	0.9	<0.1	40.7	0.09	0.14	0.12	17	0.34	0.083
537436	Soil			4.07	333.6	3.88	18.5	234	40.4	26.4	763	0.95	2.2	0.3	2.5	<0.1	55.2	0.29	0.16	0.06	20	1.59	0.109
537437	Soil			5.58	15.77	2.10	33.3	77	8.8	2.1	62	0.32	1.2	<0.1	0.5	<0.1	17.5	0.13	0.06	0.04	7	0.43	0.070
537438	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.
537439	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.
537440	Soil			7.96	24.16	2.60	20.6	98	13.6	5.0	175	0.67	1.4	<0.1	1.0	<0.1	39.9	0.13	0.05	0.06	18	0.60	0.097
537526	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.
537527	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.
537528	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.
537529	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.
537530	Soil			0.43	10.96	3.86	32.2	127	5.9	6.3	629	0.82	2.5	0.1	1.6	<0.1	31.9	0.11	0.12	0.05	21	0.45	0.119
537531	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.
537532	Soil			0.98	12.00	3.77	46.2	376	5.9	2.2	706	0.37	1.8	<0.1	1.1	<0.1	31.6	0.20	0.08	0.06	12	0.43	0.110
537533	Soil			1.53	33.95	3.28	25.6	1009	6.8	5.4	204	1.01	4.0	0.5	1.4	<0.1	37.5	0.36	0.12	0.05	28	0.70	0.156
537534	Soil			2.34	36.37	4.65	28.7	302	7.9	9.8	1157	1.18	3.6	0.3	17.5	<0.1	51.6	0.42	0.18	0.06	38	1.40	0.157

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 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 8 of 9 Part 2

CERTIFICATE OF ANALYSIS

SMI11000354.1

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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	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
541750	Soil	2.5	8.5	0.14	231.2	0.007	4	0.57	0.007	0.09	<0.1	0.3	0.11	0.16	169	0.4	0.03	1.2	0.60	<0.1	<0.02
541751	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.
537422	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.
537423	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.
537424	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.
537425	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.
537426	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.
537427	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.
537428	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.
537429	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.
537430	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.
537431	Soil	2.1	19.9	0.29	232.6	0.030	2	0.84	0.009	0.07	0.3	0.7	0.04	0.13	139	0.3	0.03	2.8	0.67	<0.1	<0.02
537432	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.
537433	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.
537434	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.
537435	Soil	2.3	19.0	0.11	238.4	0.010	<1	0.44	0.011	0.06	0.2	0.3	0.04	0.08	89	0.4	<0.02	1.9	0.40	<0.1	0.02
537436	Soil	5.7	19.5	0.67	42.9	0.014	5	1.27	0.011	0.09	0.6	1.4	0.14	0.17	80	1.1	0.02	1.8	1.52	0.2	<0.02
537437	Soil	0.6	11.9	0.14	30.7	0.013	2	0.19	0.010	0.10	0.2	0.7	<0.02	0.14	120	0.3	0.03	0.6	0.79	<0.1	<0.02
537438	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.
537439	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.
537440	Soil	0.9	18.6	0.32	49.6	0.028	1	0.46	0.012	0.10	0.6	0.7	0.04	0.13	88	0.4	0.02	1.5	0.82	<0.1	<0.02
537526	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.
537527	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.
537528	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.
537529	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.
537530	Soil	2.1	13.2	0.21	80.7	0.019	<1	0.54	0.010	0.09	<0.1	0.3	0.05	0.11	161	0.2	<0.02	2.0	0.76	<0.1	<0.02
537531	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.
537532	Soil	0.9	7.2	0.15	166.9	0.022	2	0.20	0.011	0.11	0.1	0.5	0.03	0.13	114	0.4	0.03	1.2	0.59	<0.1	<0.02
537533	Soil	5.8	15.0	0.28	62.4	0.016	<1	1.16	0.010	0.09	0.1	0.5	0.03	0.24	121	0.3	<0.02	2.9	0.37	<0.1	<0.02
537534	Soil	4.8	18.7	0.34	110.8	0.021	<1	1.20	0.010	0.09	0.1	0.4	0.06	0.21	78	0.3	<0.02	3.5	0.60	<0.1	<0.02

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 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 8 of 9 Part 3

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F	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	MDL	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
541750	Soil	0.19	7.2	0.2	<0.05	<0.1	1.44	5.3	<0.02	<1	0.1	0.9	<10	<2	2.86	41.87	6.86	48.3	304	7.4	14.5
541751	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.
537422	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.	69.86	181.1	3.74	33.4	154	13.4	6.0
537423	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.	57.32	309.5	8.69	26.5	536	14.0	9.2
537424	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.	37.55	72.49	3.85	58.0	205	10.1	4.5
537425	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.	6.61	15.71	2.83	69.2	78	3.7	1.2
537426	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.	26.41	18.47	3.61	17.9	215	3.7	1.4
537427	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.	17.64	28.01	3.97	25.1	138	6.3	3.5
537428	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.	9.80	10.74	4.60	35.7	99	2.8	1.0
537429	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.	2.68	21.69	4.83	31.0	747	6.9	2.3
537430	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.	4.11	37.92	6.40	55.5	343	13.2	11.2
537431	Soil	0.65	19.2	0.3	<0.05	0.1	1.34	3.8	<0.02	<1	0.1	2.2	<10	<2	1.50	33.38	7.45	29.7	480	11.4	7.2
537432	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.
537433	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.	2.49	20.05	3.96	24.3	240	9.6	2.5
537434	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.	15.11	49.09	4.27	33.5	155	4.7	4.0
537435	Soil	0.23	5.8	0.3	<0.05	<0.1	1.17	4.5	<0.02	<1	<0.1	0.7	<10	<2	1.60	25.40	11.30	25.6	244	11.1	3.5
537436	Soil	0.61	15.0	0.2	<0.05	0.5	5.13	4.3	<0.02	<1	0.3	2.4	<10	3	3.96	351.7	4.73	23.8	239	43.3	27.4
537437	Soil	0.25	18.7	<0.1	<0.05	0.3	0.46	1.0	<0.02	1	<0.1	0.8	<10	<2	6.37	23.80	3.03	44.2	85	12.1	2.7
537438	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.	9.40	15.33	5.03	41.0	53	9.1	4.8
537439	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.	21.71	41.01	5.52	34.1	129	19.5	6.8
537440	Soil	0.21	20.6	0.1	<0.05	<0.1	0.81	1.6	<0.02	<1	<0.1	1.8	<10	<2	8.69	32.26	3.41	26.3	103	16.1	6.4
537526	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.	2.99	12.36	4.71	36.0	671	10.8	7.0
537527	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.
537528	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.	3.57	21.28	3.07	39.4	208	5.6	1.9
537529	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.	2.04	60.14	3.48	110.5	145	10.2	7.5
537530	Soil	0.29	9.6	0.1	<0.05	<0.1	1.66	4.3	<0.02	<1	0.1	1.3	<10	<2	0.49	14.34	5.12	39.1	154	6.9	7.0
537531	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	11.33	3.72	27.4	324	4.4	3.4
537532	Soil	0.66	8.9	0.2	<0.05	<0.1	0.43	1.6	<0.02	<1	<0.1	0.5	<10	<2	0.99	14.08	4.55	54.5	431	6.4	2.7
537533	Soil	0.93	7.8	0.3	<0.05	0.1	3.29	9.9	<0.02	<1	0.3	2.4	<10	<2	1.45	34.62	3.62	25.3	1033	7.6	5.7
537534	Soil	1.06	11.8	0.3	<0.05	0.1	2.94	8.9	<0.02	<1	0.2	3.3	<10	<2	2.24	38.24	5.00	30.7	350	8.8	10.7

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: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 8 of 9 Part 4

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	
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	
541750	Soil	3138	0.49	2.1	0.1	1.3	<0.1	35.7	0.63	0.13	0.07	10	0.60	0.140	2.5	8.5	0.12	240.6	0.004	<20	0.53	
541751	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.
537422	Soil	341	0.74	2.0	0.5	4.3	0.1	56.9	1.38	0.14	0.33	21	2.48	0.088	2.1	19.1	0.33	36.6	0.024	<20	0.58	
537423	Soil	1913	0.43	1.9	0.9	4.4	<0.1	83.6	1.39	0.31	0.18	10	2.56	0.122	4.8	10.7	0.19	55.9	0.007	<20	0.61	
537424	Soil	331	0.39	1.6	0.2	0.9	<0.1	74.1	1.65	0.09	0.25	9	2.41	0.085	0.6	13.6	0.22	36.0	0.011	<20	0.28	
537425	Soil	50	0.11	1.1	<0.1	0.5	<0.1	22.5	0.81	0.09	0.05	<2	0.54	0.080	<0.5	4.8	0.05	22.3	0.003	<20	0.07	
537426	Soil	120	0.16	0.7	<0.1	0.6	<0.1	43.5	0.34	0.08	0.07	3	0.82	0.084	<0.5	5.7	0.07	31.8	0.005	<20	0.11	
537427	Soil	106	0.32	0.7	<0.1	1.6	<0.1	25.4	0.65	0.14	0.15	8	0.45	0.072	0.6	9.4	0.12	33.1	0.010	<20	0.20	
537428	Soil	202	0.18	0.4	<0.1	0.5	<0.1	21.6	0.31	0.10	0.04	3	0.40	0.088	<0.5	4.3	0.06	73.0	0.005	<20	0.10	
537429	Soil	125	0.53	0.4	<0.1	<0.2	<0.1	19.8	0.16	0.09	0.06	13	0.24	0.062	1.3	12.1	0.16	94.9	0.007	<20	0.35	
537430	Soil	1405	1.26	1.0	<0.1	0.7	<0.1	95.5	0.19	0.09	0.21	36	1.34	0.119	1.1	20.0	0.47	221.8	0.051	<20	0.58	
537431	Soil	1217	1.16	1.1	0.1	3.3	<0.1	66.5	0.09	0.11	0.11	34	0.81	0.084	2.3	20.8	0.30	243.5	0.035	<20	0.89	
537432	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.
537433	Soil	357	0.64	1.1	<0.1	0.4	<0.1	47.6	0.08	0.09	0.06	20	0.73	0.109	1.1	14.2	0.19	169.1	0.034	<20	0.39	
537434	Soil	450	0.24	1.3	0.1	0.4	<0.1	76.8	0.85	0.11	0.06	6	1.65	0.154	1.7	5.8	0.27	83.6	0.009	<20	0.29	
537435	Soil	126	0.68	1.2	0.1	<0.2	<0.1	49.3	0.12	0.13	0.12	19	0.37	0.079	2.5	20.1	0.12	261.1	0.010	<20	0.50	
537436	Soil	787	1.07	2.7	0.4	1.6	0.1	66.7	0.34	0.22	0.06	25	1.68	0.115	6.3	23.6	0.73	46.7	0.020	<20	1.45	
537437	Soil	86	0.38	1.2	<0.1	<0.2	<0.1	24.2	0.16	0.07	0.04	9	0.54	0.084	0.7	16.5	0.17	37.9	0.017	<20	0.25	
537438	Soil	172	0.24	1.2	<0.1	0.5	<0.1	28.9	0.30	0.11	0.05	5	0.53	0.098	0.6	11.2	0.19	47.2	0.010	<20	0.17	
537439	Soil	520	0.69	1.5	<0.1	0.6	<0.1	55.3	0.52	0.12	0.06	17	1.13	0.125	1.4	23.1	0.54	60.3	0.022	<20	0.52	
537440	Soil	202	0.82	1.1	<0.1	<0.2	<0.1	51.6	0.15	0.07	0.06	23	0.68	0.101	1.0	25.3	0.38	56.8	0.034	<20	0.56	
537526	Soil	201	0.47	1.5	0.1	0.7	<0.1	45.3	0.51	0.17	0.05	12	0.87	0.134	1.5	18.7	0.15	43.8	0.016	<20	0.35	
537527	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.
537528	Soil	72	0.33	1.9	0.4	1.5	<0.1	50.3	0.41	0.22	0.04	10	1.33	0.079	1.2	12.8	0.10	34.9	0.013	<20	0.27	
537529	Soil	631	0.95	2.3	1.4	5.4	<0.1	56.2	1.46	0.19	0.05	41	1.81	0.102	3.5	22.8	0.31	66.5	0.032	<20	0.78	
537530	Soil	691	0.91	1.3	0.2	0.6	<0.1	41.3	0.15	0.15	0.05	25	0.53	0.133	2.4	16.4	0.25	92.6	0.024	<20	0.57	
537531	Soil	73	0.26	1.5	<0.1	1.2	<0.1	49.5	0.23	0.11	0.04	6	0.79	0.121	1.0	7.2	0.09	113.1	0.008	<20	0.27	
537532	Soil	793	0.42	0.5	<0.1	<0.2	<0.1	34.1	0.24	0.08	0.06	14	0.51	0.120	0.9	9.7	0.18	177.7	0.019	<20	0.22	
537533	Soil	208	1.00	0.8	0.4	0.3	<0.1	35.6	0.38	0.09	0.06	28	0.71	0.146	5.6	15.0	0.27	64.5	0.012	<20	1.14	
537534	Soil	1254	1.18	0.8	0.3	0.6	<0.1	49.2	0.45	0.14	0.07	39	1.46	0.139	4.7	17.8	0.32	114.8	0.014	<20	1.23	

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



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 Report Date: September 28, 2011

Page: 8 of 9 Part 5

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				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
541750	Soil			0.008	0.09	<0.1	0.2	0.09	0.15	166	0.7	<0.02	1.1	0.39	<0.1	<0.02	0.16	5.4	0.1	<0.05	<0.1	1.42	5.2
541751	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.
537422	Soil			0.014	0.08	0.1	1.2	0.06	0.17	106	0.7	0.03	1.5	1.61	<0.1	0.03	0.32	8.5	0.1	<0.05	0.8	2.48	2.7
537423	Soil			0.008	0.08	0.2	0.6	0.27	0.21	146	1.1	0.03	1.1	2.02	0.1	<0.02	0.16	7.8	0.1	<0.05	0.2	5.20	3.3
537424	Soil			0.008	0.09	<0.1	0.7	0.04	0.19	133	0.7	<0.02	0.8	3.32	<0.1	<0.02	0.12	13.6	0.1	<0.05	0.4	0.67	1.0
537425	Soil			0.007	0.07	<0.1	0.3	0.03	0.14	150	0.6	<0.02	0.2	0.44	<0.1	<0.02	0.06	6.6	0.1	<0.05	0.3	0.20	0.6
537426	Soil			0.008	0.07	<0.1	0.4	0.05	0.15	173	0.7	<0.02	0.3	0.92	<0.1	<0.02	0.08	9.3	<0.1	<0.05	0.3	0.26	0.6
537427	Soil			0.009	0.07	<0.1	0.6	0.09	0.12	117	0.6	<0.02	0.7	1.61	<0.1	<0.02	0.21	10.7	0.1	<0.05	0.7	0.43	1.0
537428	Soil			0.009	0.09	<0.1	0.3	0.04	0.12	138	0.5	<0.02	0.3	0.59	<0.1	<0.02	0.07	11.2	0.1	<0.05	0.1	0.23	0.8
537429	Soil			0.013	0.07	<0.1	0.2	0.02	0.09	107	0.6	<0.02	1.1	0.23	<0.1	<0.02	0.22	6.2	0.2	<0.05	<0.1	0.57	2.5
537430	Soil			0.013	0.10	0.3	0.9	0.03	0.17	132	0.7	0.36	2.9	0.58	<0.1	<0.02	0.89	17.2	0.2	<0.05	0.2	0.85	2.2
537431	Soil			0.012	0.07	0.2	0.8	0.04	0.12	130	0.7	<0.02	2.8	0.50	<0.1	<0.02	0.60	18.0	0.3	<0.05	0.2	1.48	4.1
537432	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.
537433	Soil			0.011	0.08	0.2	0.5	0.02	0.14	135	0.6	<0.02	1.8	0.72	<0.1	<0.02	0.93	9.1	0.3	<0.05	0.2	0.68	2.0
537434	Soil			0.010	0.10	0.2	0.4	0.03	0.23	140	0.6	<0.02	0.7	0.30	<0.1	<0.02	0.40	9.3	0.2	<0.05	0.2	1.44	2.3
537435	Soil			0.011	0.06	0.2	0.3	0.03	0.08	85	0.4	<0.02	1.9	0.35	<0.1	<0.02	0.39	5.2	0.4	<0.05	<0.1	1.29	4.7
537436	Soil			0.016	0.09	0.6	1.7	0.15	0.18	94	1.3	<0.02	2.0	1.67	0.1	<0.02	0.59	16.0	0.2	<0.05	0.3	5.73	4.8
537437	Soil			0.011	0.11	0.2	0.6	0.03	0.14	142	0.6	<0.02	0.8	0.84	<0.1	<0.02	0.35	22.0	0.1	<0.05	0.2	0.63	1.2
537438	Soil			0.009	0.12	0.4	0.5	0.03	0.17	138	0.6	<0.02	0.5	0.47	<0.1	<0.02	0.15	19.9	0.1	<0.05	0.2	0.36	1.1
537439	Soil			0.011	0.13	0.6	1.1	0.03	0.19	160	0.6	0.03	1.6	1.69	<0.1	0.03	0.44	34.2	0.2	<0.05	0.8	1.19	2.5
537440	Soil			0.015	0.11	0.5	0.9	0.05	0.13	117	0.7	0.05	1.8	0.79	<0.1	<0.02	0.28	20.8	0.1	<0.05	0.3	1.01	1.9
537526	Soil			0.018	0.13	<0.1	0.5	0.03	0.18	138	0.7	<0.02	1.1	0.63	<0.1	<0.02	0.69	14.6	0.2	<0.05	0.3	1.23	2.9
537527	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.
537528	Soil			0.014	0.06	0.2	0.8	<0.02	0.19	119	1.5	<0.02	0.8	0.21	<0.1	0.04	0.48	2.1	0.1	<0.05	1.4	1.19	2.2
537529	Soil			0.015	0.08	0.3	1.0	0.05	0.18	122	1.0	<0.02	2.5	0.55	<0.1	<0.02	0.64	6.6	0.2	<0.05	0.4	3.24	6.3
537530	Soil			0.011	0.10	<0.1	0.5	0.06	0.11	189	0.7	<0.02	2.2	0.71	<0.1	<0.02	0.40	9.4	0.2	<0.05	<0.1	1.96	4.6
537531	Soil			0.009	0.09	<0.1	0.5	<0.02	0.16	134	0.7	<0.02	0.5	0.19	<0.1	<0.02	0.24	5.5	0.1	<0.05	<0.1	0.92	1.8
537532	Soil			0.012	0.10	0.1	0.5	0.04	0.13	179	0.2	<0.02	1.3	0.49	<0.1	<0.02	0.77	9.1	0.2	<0.05	0.1	0.46	1.6
537533	Soil			0.012	0.09	0.1	0.4	0.03	0.22	133	0.2	<0.02	2.9	0.27	<0.1	<0.02	1.38	6.0	0.3	<0.05	0.6	3.19	9.8
537534	Soil			0.012	0.09	<0.1	0.5	0.06	0.20	111	0.3	<0.02	3.8	0.39	<0.1	<0.02	1.40	9.6	0.3	<0.05	0.3	2.87	8.7



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Project: Aug 12, 2011 Shipment
Report Date: September 28, 2011

Page: 8 of 9 Part 6

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	Unit	MDL	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
				ppm	ppb	ppm	ppm	ppb	ppb
				0.02	1	0.1	0.1	10	2
541750	Soil			<0.02	1	0.1	0.8	<10	4
541751	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
537422	Soil			<0.02	<1	<0.1	5.1	<10	<2
537423	Soil			<0.02	2	0.4	1.9	11	<2
537424	Soil			<0.02	2	<0.1	2.5	<10	<2
537425	Soil			<0.02	<1	<0.1	0.1	<10	<2
537426	Soil			<0.02	1	<0.1	0.3	<10	<2
537427	Soil			<0.02	<1	<0.1	1.0	<10	<2
537428	Soil			<0.02	<1	<0.1	0.2	<10	<2
537429	Soil			<0.02	<1	<0.1	0.6	<10	<2
537430	Soil			<0.02	<1	<0.1	2.6	<10	<2
537431	Soil			<0.02	<1	0.2	2.0	<10	<2
537432	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
537433	Soil			<0.02	<1	<0.1	1.1	<10	<2
537434	Soil			<0.02	<1	<0.1	0.4	<10	<2
537435	Soil			<0.02	<1	0.1	0.6	<10	<2
537436	Soil			<0.02	<1	0.3	2.4	<10	<2
537437	Soil			<0.02	<1	<0.1	0.9	<10	<2
537438	Soil			<0.02	<1	<0.1	0.3	<10	<2
537439	Soil			<0.02	1	<0.1	2.3	<10	<2
537440	Soil			<0.02	<1	<0.1	2.1	<10	<2
537526	Soil			<0.02	<1	<0.1	1.1	<10	<2
537527	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
537528	Soil			<0.02	<1	<0.1	0.8	<10	<2
537529	Soil			<0.02	<1	0.2	3.2	<10	<2
537530	Soil			<0.02	<1	0.2	1.5	<10	<2
537531	Soil			<0.02	<1	0.2	0.2	<10	<2
537532	Soil			<0.02	<1	<0.1	0.6	<10	<2
537533	Soil			<0.02	<1	0.3	2.3	<10	<2
537534	Soil			<0.02	<1	0.2	2.9	<10	<2



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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 9 of 9 Part 1

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	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
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
537535	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.
537536	Soil	2.58	30.26	2.98	22.4	168	5.5	5.5	1348	0.60	<0.1	0.1	0.3	<0.1	69.9	0.46	0.15	0.03	17	2.04	0.150
537537	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.
537538	Soil	1.71	23.51	3.89	33.2	159	5.2	4.3	999	0.52	<0.1	0.2	<0.2	<0.1	55.7	0.56	0.15	0.04	12	1.56	0.176
537539	Soil	2.35	162.7	4.03	38.7	483	12.2	12.1	1210	1.78	2.8	0.6	5.2	<0.1	60.8	0.31	0.49	0.07	53	1.59	0.140
537540	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.
537541	Soil	2.76	14.39	4.72	33.9	74	4.6	2.5	415	0.31	0.7	0.1	0.6	0.1	40.5	0.39	0.15	0.05	7	0.78	0.098
537542	Soil	2.46	12.51	2.76	25.7	125	8.3	1.3	153	0.42	0.7	0.1	<0.2	0.2	46.4	0.14	0.21	0.06	9	1.30	0.091
537543	Soil	1.06	27.53	5.79	143.8	152	30.0	5.5	8111	1.49	5.8	0.3	8.9	0.2	31.7	0.20	0.62	0.18	22	0.99	0.117
537544	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.
537545	Soil	0.98	12.25	5.40	25.8	112	4.4	9.0	1415	0.51	0.8	0.3	2.7	<0.1	26.0	0.33	0.14	0.11	10	0.50	0.152
537546	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.
537547	Soil	1.35	27.95	5.17	50.4	66	9.0	12.3	1357	0.61	<0.1	<0.1	1.6	<0.1	38.6	1.66	0.12	0.09	10	1.15	0.104
537548	Soil	0.76	18.12	4.33	22.9	143	5.1	2.5	106	0.86	3.0	0.2	2.3	<0.1	24.0	0.17	0.30	0.30	18	0.23	0.134
540492	Soil	6.23	12.45	6.18	29.7	376	7.0	3.2	451	0.82	1.7	0.1	1.3	0.1	36.5	0.29	0.13	0.10	38	0.43	0.072
540493	Soil	33.09	23.33	2.18	21.8	116	4.7	1.8	75	0.23	<0.1	<0.1	1.6	<0.1	77.8	0.86	0.14	0.07	6	1.60	0.069
540494	Soil	4.21	17.89	2.13	102.5	62	4.2	16.3	372	0.09	<0.1	<0.1	0.9	<0.1	34.2	1.62	0.05	0.04	<2	1.70	0.091
540495	Soil	1.30	34.16	6.73	37.9	148	15.4	7.6	347	1.14	1.0	0.2	1.2	<0.1	61.4	0.11	0.15	0.12	30	0.50	0.097
540496	Soil	1.32	17.10	6.71	25.7	87	14.1	5.8	4004	1.22	0.5	0.1	1.9	<0.1	85.5	0.24	0.14	0.11	32	1.52	0.096
540497	Soil	0.66	28.63	3.97	44.1	135	10.8	9.2	1114	1.15	0.5	<0.1	1.0	<0.1	120.9	0.43	0.08	0.06	30	1.79	0.117
540498	Soil	0.92	17.92	5.93	24.8	253	10.2	4.9	261	1.53	1.3	0.1	1.5	0.1	56.4	0.23	0.15	0.13	47	0.64	0.064
540499	Soil	3.52	13.31	3.76	41.6	209	4.3	2.0	260	0.41	0.9	0.1	2.0	<0.1	25.8	0.20	0.10	0.08	13	0.53	0.133
540500	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.
541701	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.
541702	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.
541703	Soil	14.08	48.97	4.02	23.7	168	23.0	12.1	967	0.87	<0.1	<0.1	1.8	<0.1	68.9	0.38	0.07	0.06	21	1.43	0.128
541704	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.
541705	Soil	10.86	20.78	2.85	18.8	143	9.1	6.3	673	0.28	<0.1	<0.1	0.7	<0.1	32.2	0.28	0.07	0.03	6	0.50	0.061



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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 9 of 9 Part 2

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	
537535	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.	
537536	Soil	3.8	9.2	0.22	109.7	0.015	2	0.62	0.010	0.08	0.1	0.6	0.06	0.21	118	0.4	<0.02	1.5	0.32	<0.1	<0.02
537537	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.
537538	Soil	3.2	7.9	0.19	87.0	0.013	1	0.57	0.009	0.12	<0.1	0.7	0.04	0.24	95	0.4	<0.02	1.1	0.51	<0.1	0.03
537539	Soil	11.2	39.9	0.52	125.8	0.025	1	1.66	0.009	0.07	0.2	1.2	0.11	0.18	64	2.7	0.05	5.0	1.08	<0.1	<0.02
537540	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.
537541	Soil	1.6	5.5	0.10	126.0	0.013	2	0.23	0.008	0.09	<0.1	0.6	0.03	0.17	153	0.7	<0.02	1.0	0.87	<0.1	0.03
537542	Soil	2.1	8.2	0.12	81.1	0.010	<1	0.30	0.007	0.06	<0.1	0.8	0.04	0.16	142	0.5	<0.02	0.9	0.34	<0.1	0.09
537543	Soil	7.1	22.3	0.34	381.8	0.021	6	1.02	0.012	0.09	0.1	2.3	0.44	0.12	359	0.6	0.05	3.5	0.89	<0.1	<0.02
537544	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.
537545	Soil	3.4	5.8	0.10	223.6	0.010	4	0.43	0.008	0.11	<0.1	0.5	0.06	0.15	177	0.3	<0.02	1.2	0.60	<0.1	<0.02
537546	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.
537547	Soil	1.3	6.0	0.14	66.5	0.014	4	0.38	0.011	0.09	<0.1	0.5	0.16	0.17	147	0.6	0.04	1.0	0.72	<0.1	<0.02
537548	Soil	1.9	9.5	0.15	63.9	0.014	3	0.80	0.011	0.07	0.2	0.4	0.05	0.14	156	0.4	0.05	2.7	1.56	<0.1	<0.02
540492	Soil	1.5	12.1	0.20	108.0	0.052	3	0.34	0.015	0.08	0.2	1.1	0.04	0.09	95	0.2	0.03	2.5	0.45	<0.1	<0.02
540493	Soil	0.8	5.7	0.07	44.9	0.008	3	0.15	0.011	0.05	0.1	0.6	0.04	0.22	113	0.4	0.02	0.5	0.26	<0.1	<0.02
540494	Soil	<0.5	2.8	0.30	27.6	0.002	11	0.05	0.012	0.07	<0.1	0.3	<0.02	0.23	119	0.3	<0.02	0.1	0.12	<0.1	<0.02
540495	Soil	3.2	29.7	0.26	188.8	0.014	1	0.82	0.009	0.06	0.1	0.3	0.04	0.08	108	0.2	0.04	3.1	0.92	<0.1	<0.02
540496	Soil	2.0	16.1	0.28	377.1	0.039	4	0.76	0.011	0.06	0.2	0.8	0.12	0.11	186	0.1	0.04	3.4	0.95	<0.1	<0.02
540497	Soil	1.6	16.8	0.39	244.1	0.034	4	0.88	0.013	0.08	0.2	0.9	0.03	0.13	126	0.3	0.03	2.5	0.61	<0.1	<0.02
540498	Soil	2.8	20.1	0.33	147.3	0.067	1	0.98	0.010	0.05	0.4	1.3	0.03	0.06	111	0.2	0.05	4.6	0.55	<0.1	<0.02
540499	Soil	1.9	7.3	0.10	99.1	0.016	2	0.35	0.008	0.13	0.3	0.4	0.05	0.12	156	0.2	0.03	1.6	0.59	<0.1	<0.02
540500	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.
541701	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.
541702	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.
541703	Soil	1.1	22.7	0.51	118.3	0.021	5	0.65	0.014	0.09	0.6	0.8	0.04	0.19	96	0.1	0.03	1.9	0.93	<0.1	<0.02
541704	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.
541705	Soil	0.8	7.1	0.18	99.7	0.008	2	0.21	0.005	0.06	0.2	0.4	0.03	0.07	57	<0.1	0.03	0.7	0.74	<0.1	<0.02



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 Report Date: September 28, 2011

Page: 9 of 9 Part 3

CERTIFICATE OF ANALYSIS

SMI11000354.1

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	
537535	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.	2.12	21.47	3.73	17.3	248	4.5	3.7	
537536	Soil	0.60	8.4	0.1	<0.05	0.2	2.54	6.2	<0.02	<1	0.2	1.9	<10	<2	2.12	33.18	3.23	24.7	183	6.0	6.4
537537	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.	1.73	30.06	4.86	31.6	277	5.2	3.8	
537538	Soil	0.49	13.7	0.1	<0.05	0.3	2.39	5.0	<0.02	<1	0.1	1.3	<10	<2	1.55	24.69	3.85	31.1	156	5.2	4.3
537539	Soil	2.48	9.4	0.4	<0.05	0.5	14.53	7.7	<0.02	2	0.4	6.6	12	<2	2.37	164.1	4.19	42.6	457	11.9	13.2
537540	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.	1.03	13.90	4.18	29.6	141	2.9	2.2	
537541	Soil	0.71	11.3	0.1	<0.05	0.8	1.40	2.6	<0.02	<1	<0.1	0.8	<10	<2	2.32	12.73	3.96	31.3	56	3.9	2.3
537542	Soil	1.32	5.6	0.1	<0.05	3.9	2.14	3.7	<0.02	<1	0.1	1.5	<10	<2	2.42	13.94	2.97	26.7	111	9.5	1.7
537543	Soil	3.66	7.7	0.7	<0.05	0.8	7.16	13.7	0.06	<1	0.5	7.0	<10	<2	1.07	26.81	5.09	135.3	132	29.2	5.5
537544	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.	0.74	14.35	4.42	34.1	481	6.0	2.1	
537545	Soil	0.49	8.5	0.3	<0.05	<0.1	1.97	6.5	<0.02	<1	0.1	0.8	<10	<2	0.98	13.79	5.19	28.6	111	4.1	9.6
537546	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.	1.60	69.91	4.53	13.5	253	5.9	2.8	
537547	Soil	0.21	7.3	0.2	<0.05	<0.1	1.66	3.4	<0.02	<1	<0.1	1.6	<10	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537548	Soil	0.77	5.8	0.5	<0.05	<0.1	0.90	3.8	<0.02	<1	<0.1	1.5	<10	<2	0.78	18.63	4.22	23.2	130	5.3	2.8
540492	Soil	0.94	5.7	0.3	<0.05	0.3	0.81	2.6	<0.02	<1	<0.1	1.5	<10	<2	5.46	11.95	4.79	27.0	312	6.6	3.1
540493	Soil	0.26	3.4	0.2	<0.05	0.5	0.72	1.2	<0.02	2	<0.1	0.7	<10	<2	31.81	22.57	1.76	20.5	94	5.2	1.8
540494	Soil	0.04	6.6	0.1	<0.05	0.2	0.14	0.3	<0.02	<1	<0.1	0.2	<10	<2	3.80	17.30	1.96	90.3	32	3.9	16.2
540495	Soil	1.00	7.2	0.4	<0.05	<0.1	2.26	6.8	<0.02	<1	0.2	2.4	<10	<2	1.22	34.35	5.80	36.7	138	16.2	8.3
540496	Soil	1.18	16.8	0.4	<0.05	<0.1	1.15	4.5	<0.02	<1	<0.1	2.8	<10	<2	1.33	17.87	5.86	25.5	77	14.3	6.1
540497	Soil	0.84	8.0	0.2	<0.05	0.4	1.22	3.2	<0.02	<1	<0.1	3.5	<10	<2	0.65	27.86	3.29	41.9	125	11.4	9.2
540498	Soil	1.44	11.1	0.4	<0.05	0.4	1.69	5.2	<0.02	<1	0.1	3.0	<10	<2	0.84	18.25	5.30	24.3	236	10.1	5.3
540499	Soil	1.01	12.8	0.3	<0.05	<0.1	0.80	3.6	<0.02	<1	<0.1	0.7	<10	<2	3.50	13.78	3.32	40.9	199	4.3	2.1
540500	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.	1.64	9.20	3.09	38.4	72	4.5	0.9	
541701	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.	4.78	18.98	3.08	44.8	100	8.5	2.3	
541702	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.	14.69	19.67	3.30	17.2	77	13.6	6.3	
541703	Soil	0.41	23.3	0.1	<0.05	0.2	0.88	2.1	<0.02	<1	<0.1	3.4	<10	<2	12.84	50.08	3.40	23.7	153	22.1	13.1
541704	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.	20.40	45.23	4.77	39.2	262	19.4	14.7	
541705	Soil	0.12	16.0	<0.1	<0.05	<0.1	0.66	1.5	<0.02	<1	<0.1	0.7	<10	<2	3.23	19.62	2.79	27.0	89	9.1	3.9



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Page: 9 of 9 Part 4

CERTIFICATE OF ANALYSIS

SMI11000354.1

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
537535	Soil	731	0.37	0.5	0.2	11.8	<0.1	66.1	0.79	0.18	0.04	10	2.02	0.144	3.6	6.6	0.15	85.6	0.005	<20	0.50
537536	Soil	1477	0.66	0.5	0.2	<0.2	<0.1	69.5	0.52	0.12	0.03	19	2.19	0.146	3.9	11.6	0.23	116.4	0.009	<20	0.66
537537	Soil	1123	0.43	0.6	0.1	0.8	<0.1	57.2	0.95	0.14	0.04	10	1.74	0.180	2.8	7.9	0.16	95.5	0.005	<20	0.51
537538	Soil	1132	0.52	0.8	0.1	2.5	<0.1	53.7	0.58	0.17	0.05	13	1.64	0.187	2.9	8.0	0.21	86.5	0.009	<20	0.60
537539	Soil	1263	1.84	2.7	0.6	3.7	<0.1	58.9	0.38	0.49	0.08	56	1.61	0.163	10.5	43.2	0.54	124.9	0.030	<20	1.74
537540	Soil	245	0.24	0.6	0.1	0.7	<0.1	25.2	0.20	0.12	0.06	5	0.50	0.167	1.2	4.5	0.10	131.7	0.007	<20	0.23
537541	Soil	376	0.27	0.7	0.1	0.6	<0.1	34.5	0.40	0.12	0.06	6	0.79	0.106	1.3	4.7	0.10	112.7	0.010	<20	0.21
537542	Soil	167	0.49	1.9	0.1	0.6	0.2	45.5	0.15	0.23	0.06	10	1.37	0.104	2.1	9.1	0.15	82.6	0.009	<20	0.36
537543	Soil	7316	1.47	5.4	0.3	1.7	0.2	27.3	0.15	0.46	0.09	21	0.90	0.103	6.2	22.0	0.35	315.3	0.017	<20	0.95
537544	Soil	511	0.24	1.1	<0.1	0.5	<0.1	34.1	0.15	0.23	0.05	4	0.39	0.136	0.8	6.7	0.13	190.5	0.006	<20	0.36
537545	Soil	1385	0.46	0.8	0.2	<0.2	<0.1	24.4	0.32	0.12	0.06	9	0.50	0.140	3.2	5.8	0.11	198.0	0.009	<20	0.44
537546	Soil	707	0.31	1.7	0.2	0.6	<0.1	59.4	0.66	0.21	0.06	5	2.90	0.148	3.6	5.8	0.12	68.4	0.007	<20	0.56
537547	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.
537548	Soil	104	0.81	0.9	0.1	1.7	<0.1	22.6	0.16	0.12	0.09	17	0.23	0.128	1.7	9.2	0.15	58.0	0.012	<20	0.73
540492	Soil	410	0.73	1.0	<0.1	<0.2	<0.1	29.1	0.23	0.12	0.06	34	0.38	0.066	1.2	11.5	0.21	86.2	0.054	<20	0.31
540493	Soil	66	0.21	0.9	<0.1	0.6	<0.1	69.4	0.76	0.12	0.04	5	1.56	0.066	0.6	8.2	0.08	37.4	0.008	<20	0.14
540494	Soil	331	0.07	<0.1	<0.1	<0.2	<0.1	29.0	1.40	0.06	0.03	<2	1.60	0.084	<0.5	2.8	0.31	22.2	0.002	<20	0.05
540495	Soil	335	1.07	0.8	0.2	0.4	<0.1	55.0	0.11	0.12	0.10	29	0.50	0.097	3.0	31.6	0.28	164.2	0.020	<20	0.78
540496	Soil	3864	1.14	1.1	<0.1	3.8	<0.1	76.5	0.19	0.12	0.10	31	1.43	0.091	1.9	16.6	0.30	333.3	0.047	<20	0.71
540497	Soil	1022	1.03	1.1	<0.1	0.2	<0.1	106.0	0.42	0.07	0.05	28	1.68	0.115	1.3	17.8	0.39	201.8	0.035	<20	0.79
540498	Soil	254	1.40	1.1	0.1	1.5	<0.1	49.5	0.24	0.12	0.11	45	0.64	0.068	2.6	19.4	0.32	128.0	0.081	<20	0.92
540499	Soil	258	0.34	1.2	<0.1	19.4	<0.1	23.3	0.23	0.09	0.08	11	0.51	0.142	1.8	7.2	0.11	85.8	0.019	<20	0.35
540500	Soil	187	0.19	1.1	<0.1	<0.2	<0.1	14.0	0.20	0.11	0.05	4	0.34	0.152	0.7	5.7	0.11	62.7	0.008	<20	0.14
541701	Soil	77	0.23	1.0	<0.1	0.4	<0.1	20.6	0.35	0.13	0.05	4	0.37	0.115	0.8	6.8	0.13	48.8	0.006	<20	0.16
541702	Soil	186	0.28	0.7	<0.1	0.3	<0.1	34.5	0.46	0.09	0.05	5	0.66	0.103	0.7	9.4	0.18	35.0	0.009	<20	0.20
541703	Soil	957	0.83	0.7	<0.1	1.0	<0.1	59.9	0.34	0.06	0.06	20	1.35	0.126	0.9	22.6	0.50	99.9	0.021	<20	0.60
541704	Soil	1355	0.57	0.8	<0.1	<0.2	<0.1	60.1	0.56	0.09	0.06	12	1.01	0.121	1.6	15.8	0.36	178.2	0.013	<20	0.43
541705	Soil	123	0.69	0.6	<0.1	0.7	<0.1	27.2	0.18	0.08	0.06	21	0.39	0.112	1.2	15.7	0.18	42.0	0.026	<20	0.44



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 Report Date: September 28, 2011

Page: 9 of 9 Part 5

CERTIFICATE OF ANALYSIS

SMI11000354.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
537535	Soil			0.010	0.12	0.1	0.3	0.03	0.20	188	0.2	<0.02	1.1	0.43	<0.1	<0.02	0.60	7.1	0.1	<0.05	0.1	2.25	6.6
537536	Soil			0.012	0.08	<0.1	0.4	0.07	0.21	161	0.3	<0.02	1.6	0.28	<0.1	<0.02	0.63	8.2	0.1	<0.05	0.2	2.64	6.8
537537	Soil			0.011	0.14	<0.1	0.4	0.05	0.29	104	0.6	<0.02	1.0	0.35	<0.1	<0.02	0.51	9.7	0.1	<0.05	0.2	2.11	4.0
537538	Soil			0.009	0.12	<0.1	0.4	0.04	0.25	112	0.6	<0.02	1.2	0.40	<0.1	<0.02	0.38	11.9	0.2	<0.05	0.2	2.18	4.8
537539	Soil			0.009	0.07	0.2	0.9	0.10	0.20	79	3.0	0.03	5.2	0.99	<0.1	<0.02	1.93	9.1	0.5	<0.05	0.5	14.39	7.3
537540	Soil			0.010	0.11	<0.1	0.2	0.06	0.16	151	0.3	<0.02	0.8	0.56	<0.1	<0.02	0.40	8.8	0.2	<0.05	<0.1	0.85	2.1
537541	Soil			0.007	0.09	<0.1	0.4	0.03	0.17	135	0.4	<0.02	0.8	0.64	<0.1	<0.02	0.54	9.2	0.2	<0.05	0.5	1.12	2.2
537542	Soil			0.008	0.06	<0.1	0.7	0.04	0.17	141	0.6	0.05	1.1	0.27	<0.1	0.11	1.56	4.9	0.2	<0.05	5.4	2.29	3.8
537543	Soil			0.010	0.08	0.1	1.6	0.38	0.13	325	0.6	<0.02	3.8	0.61	<0.1	0.03	3.11	6.0	0.6	<0.05	2.7	6.53	12.2
537544	Soil			0.010	0.09	<0.1	0.2	0.03	0.13	134	0.2	<0.02	0.8	0.40	<0.1	<0.02	0.41	6.4	0.2	<0.05	<0.1	0.65	1.7
537545	Soil			0.007	0.11	<0.1	0.2	0.05	0.14	194	0.3	0.03	1.4	0.47	<0.1	<0.02	0.47	7.3	0.2	<0.05	<0.1	2.02	6.2
537546	Soil			0.013	0.07	<0.1	0.4	0.05	0.26	153	3.8	0.03	0.9	0.40	<0.1	<0.02	0.21	4.6	0.1	<0.05	0.6	4.13	3.4
537547	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.
537548	Soil			0.009	0.06	0.1	0.2	0.06	0.14	148	0.5	0.02	2.6	1.10	<0.1	<0.02	0.90	4.4	0.3	<0.05	0.2	0.82	3.4
540492	Soil			0.011	0.07	0.2	0.9	<0.02	0.08	91	0.2	0.03	2.3	0.36	<0.1	<0.02	0.72	4.6	0.2	<0.05	0.3	0.64	2.2
540493	Soil			0.011	0.05	<0.1	0.5	0.02	0.21	118	0.5	<0.02	0.5	0.19	<0.1	<0.02	0.22	3.2	<0.1	<0.05	0.5	0.65	1.0
540494	Soil			0.011	0.07	<0.1	0.3	<0.02	0.22	100	0.4	<0.02	0.2	0.11	<0.1	<0.02	0.05	5.9	<0.1	<0.05	<0.1	0.11	0.4
540495	Soil			0.008	0.05	0.1	0.4	0.02	0.08	94	0.3	<0.02	3.0	0.80	<0.1	<0.02	0.80	6.9	0.4	<0.05	<0.1	2.10	6.1
540496	Soil			0.009	0.06	0.2	0.7	0.09	0.10	161	0.3	0.04	3.4	0.83	<0.1	<0.02	0.94	15.6	0.3	<0.05	0.2	1.09	4.1
540497	Soil			0.011	0.08	0.2	0.8	<0.02	0.12	114	0.4	0.04	2.4	0.51	<0.1	<0.02	0.67	7.3	0.1	<0.05	0.3	1.07	2.5
540498	Soil			0.009	0.05	0.3	1.1	<0.02	0.06	87	0.2	0.06	4.4	0.50	<0.1	<0.02	1.23	10.3	0.4	<0.05	0.5	1.59	4.7
540499	Soil			0.006	0.12	0.2	0.4	0.05	0.12	150	0.2	0.04	1.5	0.51	<0.1	<0.02	0.91	11.5	0.3	<0.05	0.1	0.73	3.1
540500	Soil			0.012	0.11	<0.1	0.5	0.06	0.11	224	0.3	<0.02	0.5	0.48	<0.1	<0.02	0.45	14.3	0.1	<0.05	0.9	0.47	1.4
541701	Soil			0.011	0.09	<0.1	0.7	0.03	0.13	132	0.2	<0.02	0.5	0.41	<0.1	<0.02	0.37	11.7	0.1	<0.05	1.3	0.61	1.6
541702	Soil			0.010	0.09	0.1	0.5	0.03	0.17	102	0.2	<0.02	0.6	0.86	<0.1	<0.02	0.21	15.7	0.1	<0.05	0.5	0.43	1.2
541703	Soil			0.014	0.09	0.7	0.9	0.03	0.19	102	0.2	0.03	1.7	0.75	<0.1	<0.02	0.32	19.8	0.1	<0.05	0.2	0.77	1.8
541704	Soil			0.010	0.13	0.4	0.4	0.05	0.14	117	0.4	<0.02	1.3	1.10	<0.1	<0.02	0.21	26.0	0.1	<0.05	<0.1	1.17	2.7
541705	Soil			0.013	0.05	0.3	0.5	0.06	0.12	190	0.4	0.05	2.1	0.35	<0.1	<0.02	0.42	8.0	0.1	<0.05	0.2	0.81	2.3



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Project: Aug 12, 2011 Shipment
Report Date: September 28, 2011

Page: 9 of 9 **Part** 6

CERTIFICATE OF ANALYSIS

SMI11000354.1

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
537535	Soil	<0.02	<1	0.1	0.9	<10	<2
537536	Soil	<0.02	<1	0.2	2.0	<10	<2
537537	Soil	<0.02	<1	0.1	1.2	<10	<2
537538	Soil	<0.02	<1	0.2	1.6	<10	<2
537539	Soil	0.02	<1	0.4	7.2	11	<2
537540	Soil	<0.02	<1	0.1	0.4	<10	<2
537541	Soil	<0.02	<1	<0.1	0.7	<10	<2
537542	Soil	<0.02	<1	0.2	1.9	<10	<2
537543	Soil	<0.02	<1	0.6	5.8	<10	<2
537544	Soil	<0.02	<1	0.1	0.6	<10	<2
537545	Soil	<0.02	<1	0.1	0.6	<10	<2
537546	Soil	<0.02	<1	0.1	1.2	<10	<2
537547	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537548	Soil	<0.02	<1	<0.1	1.4	<10	<2
540492	Soil	<0.02	<1	<0.1	1.1	<10	<2
540493	Soil	<0.02	4	<0.1	0.7	12	<2
540494	Soil	<0.02	<1	<0.1	<0.1	<10	<2
540495	Soil	<0.02	<1	0.2	2.3	<10	<2
540496	Soil	<0.02	<1	<0.1	2.9	<10	<2
540497	Soil	<0.02	<1	<0.1	3.4	<10	2
540498	Soil	<0.02	<1	0.1	2.8	<10	<2
540499	Soil	<0.02	<1	<0.1	0.5	<10	<2
540500	Soil	<0.02	<1	<0.1	0.6	<10	<2
541701	Soil	<0.02	<1	0.1	0.5	<10	<2
541702	Soil	<0.02	<1	<0.1	0.8	<10	<2
541703	Soil	<0.02	<1	0.1	2.9	<10	<2
541704	Soil	<0.02	<1	<0.1	1.4	<10	<2
541705	Soil	<0.02	<1	<0.1	1.2	<10	<2



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Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

SMI11000354.1

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	
Pulp Duplicates																					
537963	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 537963	QC																				
537974	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 537974	QC																				
537989	Soil	0.84	13.93	7.04	45.7	773	6.1	4.5	692	1.32	0.3	<0.1	8.4	<0.1	22.5	0.20	0.16	0.08	31	0.37	0.088
REP 537989	QC	0.82	13.56	6.93	46.8	811	5.8	4.0	687	1.22	<0.1	<0.1	4.2	<0.1	22.1	0.21	0.18	0.07	29	0.37	0.087
540565	Soil	3.14	110.9	3.29	9.1	1489	1.5	0.4	646	0.11	0.2	0.2	1.7	<0.1	181.7	0.78	0.15	0.05	3	3.44	0.097
REP 540565	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540961	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 540961	QC																				
540979	Soil	0.93	8.30	6.20	49.5	695	2.5	1.5	737	0.20	<0.1	0.1	<0.2	<0.1	13.6	0.18	0.10	0.09	6	0.42	0.139
REP 540979	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540983	Soil	0.72	4.11	6.82	47.4	1461	2.1	0.8	1475	0.12	<0.1	<0.1	1.0	<0.1	15.4	0.12	0.10	0.07	3	0.41	0.146
REP 540983	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537450	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 537450	QC																				
540486	Soil	1.64	5.78	2.85	24.9	270	5.2	0.9	71	0.24	<0.1	0.1	<0.2	<0.1	26.5	0.11	0.07	<0.02	5	0.24	0.089
REP 540486	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541706	Soil	9.71	21.25	1.85	45.2	69	11.2	1.5	166	0.20	<0.1	<0.1	<0.2	<0.1	31.9	0.31	0.05	<0.02	3	0.84	0.117
REP 541706	QC																				
541729	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 541729	QC																				
541747	Soil	0.43	13.04	3.41	41.4	96	3.3	1.9	285	0.18	6.0	<0.1	<0.2	<0.1	36.4	0.22	0.10	0.05	3	0.51	0.180
REP 541747	QC	0.41	13.66	3.50	39.6	112	3.2	1.9	291	0.19	6.2	0.1	0.7	<0.1	36.9	0.23	0.09	0.04	3	0.52	0.188
541750	Soil	3.06	40.69	6.28	46.8	292	8.5	15.4	3138	0.61	3.7	0.2	4.6	<0.1	31.1	0.59	0.15	0.11	10	0.56	0.147
REP 541750	QC																				
537429	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 537429	QC																				

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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Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

SMI11000354.1

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																					
537963	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 537963	QC																				
537974	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 537974	QC																				
537989	Soil	1.2	21.5	0.20	80.9	0.046	2	0.49	0.005	0.06	<0.1	0.8	0.06	0.08	187	0.3	0.04	2.2	0.65	<0.1	<0.02
REP 537989	QC	1.3	19.4	0.20	82.7	0.044	1	0.50	0.005	0.06	0.1	0.7	0.06	0.08	205	0.6	0.04	2.1	0.66	0.1	<0.02
540565	Soil	5.2	2.6	0.08	130.6	0.003	5	0.12	0.005	0.07	<0.1	0.4	0.03	0.18	220	0.3	<0.02	0.3	0.86	0.1	<0.02
REP 540565	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540961	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 540961	QC																				
540979	Soil	0.6	4.9	0.07	93.1	0.009	<1	0.11	0.005	0.13	<0.1	0.3	0.14	0.14	287	0.3	<0.02	0.6	0.35	0.2	<0.02
REP 540979	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540983	Soil	<0.5	2.8	0.06	90.9	0.007	2	0.10	0.006	0.13	<0.1	0.6	0.11	0.11	223	0.4	<0.02	0.3	0.40	<0.1	<0.02
REP 540983	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537450	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 537450	QC																				
540486	Soil	1.1	7.1	0.08	88.8	0.012	<1	0.16	0.012	0.06	<0.1	0.3	0.03	0.10	192	0.5	<0.02	0.7	0.34	<0.1	<0.02
REP 540486	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541706	Soil	0.6	7.5	0.12	50.2	0.006	2	0.14	0.008	0.05	0.1	0.7	0.05	0.21	164	0.7	<0.02	0.4	0.52	<0.1	<0.02
REP 541706	QC																				
541729	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 541729	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
541747	Soil	0.8	4.2	0.08	136.1	0.006	1	0.22	0.013	0.12	<0.1	0.5	0.09	0.17	198	0.4	<0.02	0.4	0.67	<0.1	<0.02
REP 541747	QC	0.9	2.8	0.08	141.2	0.006	1	0.23	0.013	0.12	<0.1	0.5	0.09	0.16	285	0.2	<0.02	0.5	0.71	<0.1	<0.02
541750	Soil	2.5	8.5	0.14	231.2	0.007	4	0.57	0.007	0.09	<0.1	0.3	0.11	0.16	169	0.4	0.03	1.2	0.60	<0.1	<0.02
REP 541750	QC																				
537429	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 537429	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.



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Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

SMI11000354.1

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																							
537963	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.	1.25	49.83	1.97	12.2	703	7.7	4.6
REP 537963	QC																1.29	51.53	1.99	12.3	710	8.1	4.6
537974	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.	0.67	6.51	4.84	26.9	616	3.7	1.1
REP 537974	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
537989	Soil			0.26	14.3	0.2	<0.05	0.2	0.81	2.4	<0.02	2	<0.1	1.5	<10	<2	0.91	14.00	7.35	48.2	822	5.4	4.5
REP 537989	QC			0.26	13.7	0.2	<0.05	0.2	0.74	2.3	<0.02	<1	<0.1	1.5	<10	<2							
540565	Soil			0.03	6.1	0.2	<0.05	0.3	6.57	1.5	<0.02	2	0.2	0.1	<10	<2	2.40	111.2	2.87	8.5	1277	1.4	0.5
REP 540565	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
540961	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.	0.78	26.03	4.16	20.4	837	8.1	4.3
REP 540961	QC																0.79	25.52	4.17	22.2	791	8.1	4.0
540979	Soil			0.08	11.5	0.2	<0.05	<0.1	0.35	1.1	<0.02	1	<0.1	0.1	<10	<2	0.90	8.01	5.90	47.4	693	2.6	1.4
REP 540979	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
540983	Soil			0.04	12.4	<0.1	<0.05	<0.1	0.16	0.8	<0.02	2	<0.1	0.1	<10	<2	0.69	5.54	7.19	49.2	1454	2.4	1.1
REP 540983	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
537450	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.	2.85	11.43	4.04	13.8	315	5.2	4.0
REP 537450	QC																3.01	11.99	4.19	14.3	351	5.6	3.9
540486	Soil			0.35	4.4	0.1	<0.05	<0.1	0.32	2.0	<0.02	<1	<0.1	0.3	<10	<2	1.66	7.54	3.29	24.9	252	5.6	1.0
REP 540486	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
541706	Soil			0.08	5.4	<0.1	<0.05	0.4	0.38	1.1	<0.02	<1	<0.1	0.2	<10	<2	10.02	25.09	2.27	49.6	70	12.3	1.8
REP 541706	QC																9.93	26.31	2.29	47.5	68	12.6	1.8
541729	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.	1.54	13.12	4.84	30.1	108	5.9	4.9
REP 541729	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
541747	Soil			0.13	9.3	<0.1	<0.05	0.4	0.62	1.5	<0.02	<1	<0.1	0.2	<10	2	0.50	14.64	3.99	41.2	136	3.9	2.0
REP 541747	QC			0.10	10.3	0.1	<0.05	0.4	0.68	1.6	<0.02	<1	<0.1	0.3	<10	<2							
541750	Soil			0.19	7.2	0.2	<0.05	<0.1	1.44	5.3	<0.02	<1	0.1	0.9	<10	<2	2.86	41.87	6.86	48.3	304	7.4	14.5
REP 541750	QC																2.84	45.99	7.19	51.3	312	8.1	16.7
537429	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.	2.68	21.69	4.83	31.0	747	6.9	2.3
REP 537429	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 1 of 3 Part 4

QUALITY CONTROL REPORT

SMI11000354.1

Method	Analyte	Unit	MDL	1F Mn	1F Fe	1F As	1F U	1F Au	1F Th	1F Sr	1F Cd	1F Sb	1F Bi	1F V	1F Ca	1F P	1F La	1F Cr	1F Mg	1F Ba	1F Ti	1F B	1F Al
				ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
				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																							
537963	Soil			38	0.63	0.3	0.2	5.8	<0.1	89.5	1.02	0.64	0.05	7	1.44	0.148	8.1	6.0	0.16	92.7	0.003	<20	0.68
REP 537963	QC			38	0.63	0.2	0.2	5.6	<0.1	91.0	1.09	0.67	0.04	7	1.43	0.145	8.1	5.4	0.17	96.1	0.004	<20	0.67
537974	Soil			380	0.12	1.5	<0.1	1.5	<0.1	10.2	0.15	0.07	0.04	6	0.18	0.090	0.6	7.5	0.06	50.7	0.008	<20	0.16
REP 537974	QC																						
537989	Soil			691	1.20	0.7	<0.1	1.5	<0.1	29.8	0.25	0.17	0.12	33	0.42	0.093	1.5	18.1	0.25	97.0	0.051	<20	0.53
REP 537989	QC																						
540565	Soil			604	0.12	<0.1	0.2	2.8	<0.1	186.1	0.81	0.14	0.04	3	3.28	0.102	5.0	2.3	0.08	133.5	0.002	<20	0.11
REP 540565	QC																						
540961	Soil			148	0.72	0.4	0.3	3.2	<0.1	61.9	0.16	0.19	0.05	24	1.00	0.108	4.3	18.0	0.34	90.9	0.028	<20	0.51
REP 540961	QC			146	0.72	0.2	0.3	2.2	<0.1	58.9	0.17	0.18	0.08	24	0.99	0.104	4.1	16.8	0.33	93.3	0.026	<20	0.51
540979	Soil			753	0.21	1.0	0.1	<0.2	<0.1	15.1	0.17	0.11	0.14	5	0.38	0.149	<0.5	4.6	0.08	97.9	0.005	<20	0.12
REP 540979	QC																						
540983	Soil			1534	0.17	0.8	<0.1	0.2	<0.1	18.4	0.12	0.13	0.08	3	0.43	0.149	<0.5	3.9	0.07	101.9	0.006	<20	0.11
REP 540983	QC																						
537450	Soil			65	0.52	1.6	<0.1	3.7	<0.1	24.5	0.10	0.11	0.10	19	0.19	0.064	1.2	8.7	0.09	73.1	0.029	<20	0.22
REP 537450	QC			68	0.47	1.9	<0.1	5.2	<0.1	26.6	0.12	0.13	0.09	18	0.21	0.069	1.2	9.1	0.09	76.7	0.030	<20	0.23
540486	Soil			71	0.26	0.5	0.1	0.8	<0.1	27.8	0.17	0.10	0.31	6	0.23	0.087	1.1	7.4	0.09	97.4	0.012	<20	0.16
REP 540486	QC																						
541706	Soil			169	0.22	0.8	<0.1	0.9	<0.1	38.5	0.34	0.10	0.09	4	0.86	0.124	0.7	9.8	0.14	55.3	0.007	<20	0.15
REP 541706	QC			173	0.22	0.8	<0.1	0.3	<0.1	39.3	0.36	0.12	0.05	4	0.87	0.119	0.7	9.4	0.14	54.3	0.007	<20	0.15
541729	Soil			1682	1.03	0.6	0.2	1.8	<0.1	27.9	0.09	0.12	0.06	28	0.36	0.095	1.8	18.2	0.22	180.0	0.019	<20	0.39
REP 541729	QC																						
541747	Soil			307	0.17	1.2	0.1	1.4	<0.1	43.8	0.21	0.10	0.04	3	0.55	0.179	0.9	4.4	0.08	152.7	0.003	<20	0.22
REP 541747	QC																						
541750	Soil			3138	0.49	2.1	0.1	1.3	<0.1	35.7	0.63	0.13	0.07	10	0.60	0.140	2.5	8.5	0.12	240.6	0.004	<20	0.53
REP 541750	QC			3443	0.59	2.1	0.2	3.5	<0.1	37.0	0.66	0.13	0.08	12	0.61	0.126	2.7	7.8	0.13	253.5	0.004	<20	0.58
537429	Soil			125	0.53	0.4	<0.1	<0.2	<0.1	19.8	0.16	0.09	0.06	13	0.24	0.062	1.3	12.1	0.16	94.9	0.007	<20	0.35
REP 537429	QC																						

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 1 of 3 Part 5

QUALITY CONTROL REPORT

SMI11000354.1

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																					
537963	Soil	0.011	0.08	<0.1	0.4	0.06	0.22	193	0.6	<0.02	0.5	0.22	0.1	<0.02	0.10	3.9	0.1	<0.05	<0.1	9.26	15.5
REP 537963	QC	0.011	0.07	<0.1	0.5	0.05	0.22	224	0.4	<0.02	0.5	0.22	0.2	<0.02	0.11	4.2	0.1	<0.05	<0.1	9.56	15.4
537974	Soil	0.006	0.08	<0.1	0.2	0.04	0.09	160	0.2	<0.02	0.6	0.28	<0.1	<0.02	0.11	6.0	0.1	<0.05	<0.1	0.24	1.5
REP 537974	QC																				
537989	Soil	0.007	0.06	0.1	0.9	0.07	0.08	185	0.3	0.03	2.4	0.66	<0.1	<0.02	0.34	14.7	0.3	<0.05	0.2	1.06	3.2
REP 537989	QC																				
540565	Soil	0.005	0.08	<0.1	0.4	<0.02	0.18	171	0.3	0.02	0.2	0.74	<0.1	<0.02	0.03	5.3	<0.1	<0.05	0.1	6.38	1.7
REP 540565	QC																				
540961	Soil	0.007	0.07	0.7	0.7	0.02	0.11	150	0.4	<0.02	1.9	0.52	<0.1	<0.02	0.29	7.4	0.2	<0.05	<0.1	4.08	8.3
REP 540961	QC	0.007	0.07	0.1	0.6	0.02	0.11	135	0.5	<0.02	1.8	0.49	<0.1	<0.02	0.29	7.1	0.2	<0.05	0.1	3.95	8.2
540979	Soil	0.006	0.14	<0.1	0.2	0.13	0.14	219	0.2	<0.02	0.4	0.31	<0.1	<0.02	0.06	10.4	0.2	<0.05	<0.1	0.25	0.7
REP 540979	QC																				
540983	Soil	0.006	0.14	<0.1	0.3	0.11	0.11	246	0.2	<0.02	0.3	0.39	<0.1	<0.02	0.05	13.0	0.1	<0.05	<0.1	0.18	0.6
REP 540983	QC																				
537450	Soil	0.011	0.05	0.2	0.5	<0.02	0.09	96	0.2	<0.02	1.4	0.19	<0.1	<0.02	0.99	4.1	0.3	<0.05	0.3	0.44	2.0
REP 537450	QC	0.011	0.05	0.2	0.5	<0.02	0.09	89	0.2	0.02	1.4	0.20	<0.1	<0.02	1.09	4.5	0.3	<0.05	0.4	0.44	2.1
540486	Soil	0.011	0.06	<0.1	0.2	0.03	0.12	156	0.2	<0.02	0.7	0.36	<0.1	<0.02	0.36	4.3	0.2	<0.05	<0.1	0.29	2.3
REP 540486	QC																				
541706	Soil	0.007	0.05	0.2	0.6	0.04	0.21	163	0.5	<0.02	0.5	0.56	<0.1	<0.02	0.13	5.8	<0.1	<0.05	0.5	0.46	1.5
REP 541706	QC	0.007	0.05	0.2	0.4	0.04	0.21	146	0.5	0.03	0.4	0.55	<0.1	<0.02	0.13	6.2	<0.1	<0.05	0.6	0.47	1.6
541729	Soil	0.007	0.09	<0.1	0.3	0.16	0.09	138	0.2	0.03	1.9	0.61	<0.1	<0.02	0.24	7.2	0.2	<0.05	<0.1	0.78	3.7
REP 541729	QC																				
541747	Soil	0.014	0.12	<0.1	<0.1	0.11	0.16	236	0.6	<0.02	0.4	0.62	<0.1	<0.02	0.10	10.2	<0.1	<0.05	<0.1	0.67	1.7
REP 541747	QC																				
541750	Soil	0.008	0.09	<0.1	0.2	0.09	0.15	166	0.7	<0.02	1.1	0.39	<0.1	<0.02	0.16	5.4	0.1	<0.05	<0.1	1.42	5.2
REP 541750	QC	0.008	0.08	<0.1	0.2	0.11	0.15	171	0.5	0.04	1.2	0.44	<0.1	<0.02	0.15	5.9	0.2	<0.05	<0.1	1.57	5.5
537429	Soil	0.013	0.07	<0.1	0.2	0.02	0.09	107	0.6	<0.02	1.1	0.23	<0.1	<0.02	0.22	6.2	0.2	<0.05	<0.1	0.57	2.5
REP 537429	QC																				



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Project: Aug 12, 2011 Shipment

Report Date: September 28, 2011

Page: 1 of 3 Part 6

QUALITY CONTROL REPORT

SMI11000354.1

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							
537963	Soil	<0.02	<1	0.4	0.5	<10	<2
REP 537963	QC	<0.02	<1	0.4	0.6	<10	<2
537974	Soil	<0.02	1	<0.1	0.4	<10	<2
REP 537974	QC						
537989	Soil	<0.02	<1	<0.1	1.6	<10	<2
REP 537989	QC						
540565	Soil	<0.02	<1	<0.1	0.3	<10	<2
REP 540565	QC						
540961	Soil	<0.02	<1	0.3	1.8	<10	<2
REP 540961	QC	<0.02	<1	0.2	1.9	<10	<2
540979	Soil	<0.02	<1	<0.1	0.3	<10	<2
REP 540979	QC						
540983	Soil	<0.02	<1	<0.1	0.4	<10	<2
REP 540983	QC						
537450	Soil	<0.02	<1	<0.1	0.5	<10	<2
REP 537450	QC	<0.02	<1	<0.1	0.5	<10	<2
540486	Soil	<0.02	<1	<0.1	0.4	<10	<2
REP 540486	QC						
541706	Soil	<0.02	<1	<0.1	0.3	<10	<2
REP 541706	QC	<0.02	<1	<0.1	0.3	<10	<2
541729	Soil	<0.02	<1	<0.1	1.5	<10	<2
REP 541729	QC						
541747	Soil	<0.02	2	0.2	0.1	<10	<2
REP 541747	QC						
541750	Soil	<0.02	1	0.1	0.8	<10	4
REP 541750	QC	<0.02	<1	0.2	0.8	<10	2
537429	Soil	<0.02	<1	<0.1	0.6	<10	<2
REP 537429	QC						



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Report Date: September 28, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

SMI11000354.1

		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
		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
537526	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 537526	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537546	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 537546	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540498	Soil	0.92	17.92	5.93	24.8	253	10.2	4.9	261	1.53	1.3	0.1	1.5	0.1	56.4	0.23	0.15	0.13	47	0.64	0.064
REP 540498	QC																				
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard	13.01	110.8	129.1	330.7	1892	41.1	8.2	661	2.61	30.0	2.7	124.0	6.5	57.2	2.54	5.23	6.94	43	0.71	0.084
STD DS8	Standard	12.47	109.5	113.2	302.8	1647	38.6	7.6	578	2.40	25.0	2.7	106.4	6.5	60.2	2.21	4.79	6.32	40	0.63	0.075
STD DS8	Standard	13.16	102.9	127.4	311.6	1864	36.3	7.0	616	2.39	26.7	2.9	115.8	7.0	67.3	2.33	5.73	6.91	41	0.72	0.085
STD DS8	Standard	11.74	104.1	113.4	290.8	1659	35.6	7.3	560	2.28	25.6	2.6	100.7	5.9	59.0	2.20	5.25	6.26	38	0.65	0.076
STD DS8	Standard	12.71	106.4	120.0	301.0	1760	36.6	7.1	603	2.46	27.2	2.7	109.3	6.6	58.0	2.15	5.25	5.80	41	0.70	0.078
STD DS8	Standard	12.40	98.92	119.9	300.1	1786	35.7	7.1	594	2.46	23.9	2.6	105.3	6.4	58.6	2.22	5.28	6.52	39	0.68	0.083
STD DS8	Standard	13.33	112.2	126.9	317.3	1823	39.8	7.5	626	2.51	26.7	2.9	135.6	7.0	58.9	2.46	5.14	6.22	43	0.72	0.078
STD DS8	Standard	14.15	103.3	124.6	302.4	1722	38.7	7.4	595	2.30	25.0	2.8	120.4	7.1	59.9	2.14	5.20	6.29	38	0.69	0.075
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
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 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

SMI11000354.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm	
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
537526	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.	I.S.
REP 537526	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
537546	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.	I.S.
REP 537546	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
540498	Soil	2.8	20.1	0.33	147.3	0.067	1	0.98	0.010	0.05	0.4	1.3	0.03	0.06	111	0.2	0.05	4.6	0.55	<0.1	<0.02	
REP 540498	QC																					
Reference Materials																						
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard	12.9	127.5	0.64	253.1	0.100	2	1.02	0.119	0.46	2.8	2.1	5.85	0.17	215	5.8	4.74	4.8	2.66	<0.1	0.07	
STD DS8	Standard	12.8	113.5	0.60	232.3	0.104	2	0.86	0.080	0.40	2.4	2.0	4.91	0.17	178	5.0	4.46	4.3	2.25	<0.1	0.07	
STD DS8	Standard	15.4	119.8	0.61	286.8	0.106	3	0.92	0.094	0.42	3.1	2.2	5.65	0.15	194	5.2	5.12	4.9	2.55	<0.1	0.07	
STD DS8	Standard	13.0	113.3	0.56	264.8	0.106	3	0.90	0.106	0.41	2.9	2.1	5.00	0.14	177	4.5	4.78	4.3	2.27	<0.1	0.07	
STD DS8	Standard	14.1	118.3	0.60	256.7	0.109	3	0.89	0.089	0.41	2.9	2.0	5.25	0.16	198	4.9	4.55	4.6	2.37	0.2	0.06	
STD DS8	Standard	13.5	119.5	0.59	255.8	0.102	2	0.98	0.114	0.43	2.9	2.3	5.35	0.16	207	4.6	4.62	4.3	2.33	0.1	0.08	
STD DS8	Standard	14.6	126.2	0.62	265.3	0.116	2	0.90	0.086	0.41	3.2	2.2	5.52	0.17	208	5.2	5.14	4.4	2.54	0.1	0.12	
STD DS8	Standard	16.1	114.0	0.59	254.7	0.111	3	0.86	0.083	0.39	3.2	2.2	5.46	0.16	182	5.1	5.19	4.7	2.51	<0.1	0.08	
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard																					
STD DS8	Standard																					
STD OREAS45CA	Standard																					
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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

SMI11000354.1

		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
		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
537526	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.	2.99	12.36	4.71	36.0	671	10.8	7.0
REP 537526	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
537546	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.	1.60	69.91	4.53	13.5	253	5.9	2.8
REP 537546	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
540498	Soil	1.44	11.1	0.4	<0.05	0.4	1.69	5.2	<0.02	<1	0.1	3.0	<10	<2	0.84	18.25	5.30	24.3	236	10.1	5.3
REP 540498	QC														0.87	17.88	5.27	23.2	223	9.8	5.1
Reference Materials																					
STD DS8	Standard														12.50	103.8	117.4	301.4	1656	38.2	7.5
STD DS8	Standard														13.76	119.3	128.6	324.9	2028	39.0	7.4
STD DS8	Standard	1.14	40.0	6.9	<0.05	1.7	5.15	24.8	2.28	55	5.6	29.3	109	388							
STD DS8	Standard	0.83	35.8	6.4	<0.05	1.8	4.92	22.3	2.04	50	4.6	24.5	89	319							
STD DS8	Standard	1.43	39.7	6.7	<0.05	1.9	6.12	29.9	2.30	60	5.3	30.3	121	368							
STD DS8	Standard	1.22	35.7	6.8	<0.05	1.7	5.10	24.2	2.06	55	5.3	25.8	96	340							
STD DS8	Standard	1.38	37.3	6.3	<0.05	1.6	5.67	25.9	2.11	49	5.2	27.2	105	322							
STD DS8	Standard	1.27	35.6	6.0	<0.05	1.5	5.28	25.9	1.95	61	4.9	29.1	125	346							
STD DS8	Standard	1.40	39.2	6.9	<0.05	2.2	5.79	27.8	2.26	57	5.8	26.9	117	356							
STD DS8	Standard	1.52	37.9	6.2	<0.05	2.0	6.27	28.8	2.13	52	5.1	25.3	119	348							
STD DS8	Standard														14.17	107.2	123.6	322.9	1704	38.8	8.0
STD DS8	Standard														13.82	112.1	130.5	321.5	2090	37.1	7.4
STD DS8	Standard														14.85	106.3	135.6	330.5	2086	37.0	6.9
STD DS8	Standard														14.45	120.3	121.7	313.6	1936	38.7	8.0
STD DS8	Standard														13.34	109.8	130.7	307.8	1840	38.8	7.6
STD OREAS45CA	Standard														0.68	504.4	20.24	61.6	290	253.9	86.3
STD OREAS45CA	Standard														0.73	510.8	21.17	63.0	262	245.3	88.6
STD OREAS45CA	Standard														0.90	516.8	19.75	62.7	269	255.5	89.7
STD OREAS45CA	Standard														0.93	529.0	21.03	64.5	274	265.7	93.9
STD OREAS45CA	Standard														0.97	523.9	22.61	62.6	280	252.0	90.4
STD OREAS45CA	Standard														0.80	564.9	20.43	71.7	267	285.9	89.8
STD OREAS45CA	Standard														0.60	533.6	20.40	61.9	266	269.3	86.4

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Project: Aug 12, 2011 Shipment
Report Date: September 28, 2011

Page: 2 of 3 Part 4

QUALITY CONTROL REPORT

SMI11000354.1

		1F Mn ppm	1F Fe %	1F As ppm	1F U ppm	1F Au ppb	1F Th ppm	1F Sr ppm	1F Cd ppm	1F Sb ppm	1F Bi ppm	1F V ppm	1F Ca %	1F P %	1F La ppm	1F Cr ppm	1F Mg %	1F Ba ppm	1F Ti %	1F B ppm	1F Al %
537526	Soil	201	0.47	1.5	0.1	0.7	<0.1	45.3	0.51	0.17	0.05	12	0.87	0.134	1.5	18.7	0.15	43.8	0.016	<20	0.35
REP 537526	QC																				
537546	Soil	707	0.31	1.7	0.2	0.6	<0.1	59.4	0.66	0.21	0.06	5	2.90	0.148	3.6	5.8	0.12	68.4	0.007	<20	0.56
REP 537546	QC																				
540498	Soil	254	1.40	1.1	0.1	1.5	<0.1	49.5	0.24	0.12	0.11	45	0.64	0.068	2.6	19.4	0.32	128.0	0.081	<20	0.92
REP 540498	QC	250	1.43	1.4	0.1	<0.2	<0.1	49.5	0.25	0.13	0.12	46	0.64	0.067	2.7	20.2	0.33	125.9	0.083	<20	0.92
Reference Materials																					
STD DS8	Standard	578	2.33	22.5	2.6	92.5	6.6	59.1	2.14	4.01	5.46	39	0.69	0.071	15.4	115.5	0.58	262.7	0.109	<20	0.88
STD DS8	Standard	596	2.52	25.6	2.8	103.9	7.4	69.4	2.38	3.32	6.96	42	0.73	0.074	17.1	122.6	0.62	288.3	0.121	<20	0.95
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard	612	2.55	26.1	2.5	110.7	6.7	63.7	2.47	4.74	6.40	43	0.75	0.085	15.8	118.2	0.62	275.5	0.121	<20	0.96
STD DS8	Standard	614	2.55	28.7	2.8	107.3	6.6	71.3	2.44	5.16	6.83	43	0.72	0.084	15.0	121.1	0.62	293.4	0.111	<20	0.92
STD DS8	Standard	609	2.50	26.2	2.9	156.6	6.9	71.9	2.31	4.82	6.70	42	0.73	0.076	17.3	128.0	0.61	307.6	0.110	<20	0.94
STD DS8	Standard	627	2.60	28.5	3.1	101.7	7.6	76.1	2.50	5.31	7.05	45	0.81	0.084	18.7	123.7	0.65	317.2	0.143	<20	1.03
STD DS8	Standard	627	2.49	27.0	3.0	105.3	6.5	75.7	2.43	4.99	6.55	42	0.76	0.082	17.5	118.8	0.63	301.0	0.119	<20	1.01
STD OREAS45CA	Standard	869	15.11	3.5	1.1	44.2	7.1	13.4	0.09	0.04	0.15	208	0.42	0.034	15.9	786.7	0.14	147.5	0.110	<20	3.75
STD OREAS45CA	Standard	868	14.72	4.7	1.2	39.0	7.3	14.9	0.09	0.07	0.18	194	0.40	0.036	16.5	682.3	0.15	151.1	0.158	<20	3.89
STD OREAS45CA	Standard	951	16.95	3.6	1.1	45.2	6.8	14.9	0.09	0.08	0.18	221	0.42	0.042	16.3	751.3	0.16	155.7	0.139	<20	3.89
STD OREAS45CA	Standard	986	17.09	4.8	1.3	43.7	7.6	17.0	0.08	0.14	0.16	224	0.42	0.042	17.4	757.6	0.17	171.5	0.155	<20	3.97
STD OREAS45CA	Standard	913	16.23	3.6	1.3	50.3	7.7	15.8	0.10	0.10	0.18	205	0.39	0.038	18.3	830.4	0.15	171.6	0.144	<20	3.84
STD OREAS45CA	Standard	908	15.84	4.2	1.2	42.7	7.0	17.5	0.10	0.08	0.19	222	0.41	0.040	17.6	705.7	0.18	175.4	0.179	<20	4.28
STD OREAS45CA	Standard	923	15.53	3.9	1.2	42.3	7.1	16.0	0.08	0.04	0.15	204	0.40	0.038	16.7	715.6	0.15	158.6	0.124	<20	4.11

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Project: Aug 12, 2011 Shipment
 Report Date: September 28, 2011

Page: 2 of 3 Part 5

QUALITY CONTROL REPORT

SMI11000354.1

		1F Na %	1F K %	1F W ppm	1F Sc ppm	1F Ti ppm	1F S %	1F Hg ppb	1F Se ppm	1F Te ppm	1F Ga ppm	1F Cs ppm	1F Ge ppm	1F Hf ppm	1F Nb ppm	1F Rb ppm	1F Sn ppm	1F Ta ppm	1F Zr ppm	1F Y ppm	1F Ce ppm
537526	Soil	0.018	0.13	<0.1	0.5	0.03	0.18	138	0.7	<0.02	1.1	0.63	<0.1	<0.02	0.69	14.6	0.2	<0.05	0.3	1.23	2.9
REP 537526	QC																				
537546	Soil	0.013	0.07	<0.1	0.4	0.05	0.26	153	3.8	0.03	0.9	0.40	<0.1	<0.02	0.21	4.6	0.1	<0.05	0.6	4.13	3.4
REP 537546	QC																				
540498	Soil	0.009	0.05	0.3	1.1	<0.02	0.06	87	0.2	0.06	4.4	0.50	<0.1	<0.02	1.23	10.3	0.4	<0.05	0.5	1.59	4.7
REP 540498	QC	0.009	0.05	0.3	1.1	<0.02	0.06	105	0.2	0.05	4.4	0.49	<0.1	<0.02	1.23	10.3	0.4	<0.05	0.5	1.59	4.7
Reference Materials																					
STD DS8	Standard	0.086	0.38	2.1	2.3	5.26	0.15	165	4.8	4.73	4.7	2.34	0.1	0.06	0.82	36.0	5.8	<0.05	1.5	5.83	26.8
STD DS8	Standard	0.097	0.42	2.2	2.3	5.55	0.16	189	5.4	4.81	4.8	2.46	<0.1	0.07	0.82	37.4	7.1	<0.05	1.7	5.69	29.9
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard	0.087	0.42	3.0	2.2	5.62	0.17	208	5.3	4.98	5.1	2.54	<0.1	0.06	1.08	38.2	6.8	<0.05	1.9	6.01	28.7
STD DS8	Standard	0.090	0.42	2.5	2.0	5.58	0.17	198	5.1	4.98	4.6	2.41	<0.1	0.05	0.94	38.1	7.0	<0.05	1.3	5.87	26.1
STD DS8	Standard	0.096	0.42	2.9	2.2	5.95	0.16	221	5.7	5.27	4.8	2.66	0.1	0.07	1.12	39.8	6.6	<0.05	1.7	6.53	32.1
STD DS8	Standard	0.114	0.45	2.4	2.8	5.42	0.17	192	5.6	5.22	5.1	2.59	0.1	0.09	1.38	40.3	7.6	<0.05	2.5	7.52	33.0
STD DS8	Standard	0.103	0.43	2.6	2.2	5.59	0.16	183	5.1	4.92	4.8	2.46	<0.1	0.04	1.10	37.7	6.8	<0.05	1.2	6.65	31.3
STD OREAS45CA	Standard	0.008	0.08	<0.1	39.3	0.13	<0.02	42	0.4	0.02	18.6	1.12	0.2	0.34	0.08	9.0	1.5	<0.05	14.1	7.77	35.0
STD OREAS45CA	Standard	0.013	0.08	<0.1	40.5	0.07	0.02	24	1.0	<0.02	18.7	1.17	0.1	0.46	0.10	9.1	2.0	<0.05	17.9	7.65	34.0
STD OREAS45CA	Standard	0.006	0.08	<0.1	37.8	0.08	<0.02	40	0.9	0.07	19.4	1.19	0.1	0.38	0.12	9.2	1.8	<0.05	16.3	7.87	34.3
STD OREAS45CA	Standard	0.015	0.07	<0.1	37.4	0.11	0.02	32	0.4	0.07	19.2	1.27	<0.1	0.46	0.13	9.5	2.0	<0.05	17.3	8.19	36.4
STD OREAS45CA	Standard	0.010	0.08	<0.1	37.6	0.14	0.03	42	0.6	0.07	19.9	1.43	<0.1	0.47	0.12	10.0	2.0	<0.05	19.1	8.54	40.2
STD OREAS45CA	Standard	0.008	0.09	<0.1	43.0	0.09	0.03	35	1.0	0.06	19.3	1.46	0.2	0.50	0.14	10.9	2.2	<0.05	21.4	8.71	37.0
STD OREAS45CA	Standard	0.006	0.08	<0.1	35.5	0.12	<0.02	27	0.7	0.03	18.7	1.19	<0.1	0.46	0.08	8.9	1.9	<0.05	17.2	7.97	34.2

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Project: Aug 12, 2011 Shipment

Report Date: September 28, 2011

Page: 2 of 3 Part 6

QUALITY CONTROL REPORT

SMI11000354.1

		1F In ppm 0.02	1F Re ppb 1	1F Be ppm 0.1	1F Li ppm 0.1	1F Pd ppb 10	1F Pt ppb 2
537526	Soil	<0.02	<1	<0.1	1.1	<10	<2
REP 537526	QC						
537546	Soil	<0.02	<1	0.1	1.2	<10	<2
REP 537546	QC						
540498	Soil	<0.02	<1	0.1	2.8	<10	<2
REP 540498	QC	<0.02	<1	0.1	2.9	<10	<2
Reference Materials							
STD DS8	Standard	1.90	52	4.8	24.2	103	326
STD DS8	Standard	2.48	67	5.8	23.5	101	348
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard						
STD DS8	Standard	2.17	60	5.4	29.3	115	358
STD DS8	Standard	2.25	55	5.0	29.5	110	363
STD DS8	Standard	2.29	65	4.8	27.0	138	380
STD DS8	Standard	2.30	54	5.4	29.3	102	345
STD DS8	Standard	2.17	47	4.7	27.8	113	344
STD OREAS45CA	Standard	0.09	<1	0.6	7.4	30	64
STD OREAS45CA	Standard	0.09	<1	0.5	7.5	50	55
STD OREAS45CA	Standard	0.08	<1	0.9	8.4	53	62
STD OREAS45CA	Standard	0.11	<1	0.5	8.3	45	66
STD OREAS45CA	Standard	0.11	<1	0.7	8.7	24	72
STD OREAS45CA	Standard	0.10	<1	0.5	8.8	33	61
STD OREAS45CA	Standard	0.09	<1	0.5	8.3	38	65



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 Report Date: September 28, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

SMI11000354.1

	1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001	
STD DS8 Expected	13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	
STD OREAS45CA Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

SMI11000354.1

	1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02	
STD DS8 Expected	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08	
STD OREAS45CA Expected																					
BLK	Blank																				
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	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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Report Date: September 28, 2011

Page: 3 of 3 Part 3

QUALITY CONTROL REPORT

SMI11000354.1

	1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2	1F Mo ppm 0.01	1F Cu ppm 0.01	1F Pb ppm 0.01	1F Zn ppm 0.1	1F Ag ppb 2	1F Ni ppm 0.1	1F Co ppm 0.1
STD DS8 Expected	1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339	13.44	110	123	312	1690	38.1	7.5
STD OREAS45CA Expected														1	494	20	60	275	240	92
BLK Blank														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
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	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
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														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
BLK Blank														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
BLK Blank														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1
BLK Blank														<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1



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Page: 3 of 3 Part 4

QUALITY CONTROL REPORT

SMI11000354.1

	1F Mn ppm	1F Fe %	1F As ppm	1F U ppm	1F Au ppb	1F Th ppm	1F Sr ppm	1F Cd ppm	1F Sb ppm	1F Bi ppm	1F V ppm	1F Ca %	1F P %	1F La ppm	1F Cr ppm	1F Mg %	1F Ba ppm	1F Ti %	1F B ppm	1F Al %
	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
STD DS8 Expected	615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	0.08	14.6	115	0.6045	279	0.113	2.6	0.93
STD OREAS45CA Expected	943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265	0.0385	15.9	709	0.1358	164	0.128		3.592
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	<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																				
BLK Blank																				
BLK Blank																				
BLK Blank																				
BLK Blank																				
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	<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	<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	<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	<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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Report Date: September 28, 2011

Page: 3 of 3 Part 5

QUALITY CONTROL REPORT

SMI11000354.1

	1F Na	1F K	1F W	1F Sc	1F Ti	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	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
STD DS8 Expected	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08	1.1	39	6.7	0.003	2.1	6.1	29.8
STD OREAS45CA Expected	0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11	0.5	0.22	8.2	1.8		21.6	7.84	35
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
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
BLK Blank																				
BLK Blank																				
BLK Blank																				
BLK Blank																				
BLK Blank																				
BLK Blank																				
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
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
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	0.3
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	0.7
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	0.3



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Project: Aug 12, 2011 Shipment

Report Date: September 28, 2011

Page: 3 of 3 Part 6

QUALITY CONTROL REPORT

SMI11000354.1

		1F In ppm 0.02	1F Re ppb 1	1F Be ppm 0.1	1F Li ppm 0.1	1F Pd ppb 10	1F Pt ppb 2
STD DS8 Expected		2.19	55	5.2	26.34	110	339
STD OREAS45CA Expected		0.09			6.2	36	61
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2



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Submitted By: Hugh Samson
Receiving Lab: Canada-Smithers
Received: September 20, 2011
Report Date: October 25, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI11000476.1

CLIENT JOB INFORMATION

Project: Aug 12, 2011 Shipment
Shipment ID: Aug-11
P.O. Number
Number of Samples: 24

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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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Vancouver BC V6C 2T8
Canada

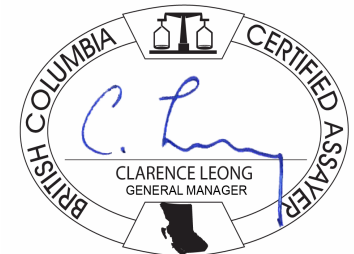
CC: Dustin Perry
Dave Moore

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Air Dry	24	Air Dry			SMI
SS80	24	Dry at 60C sieve 100g to -80 mesh			SMI
RJSV	24	Saving all or part of Soil Reject			SMI
1F05	19	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
1F04	24	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Version 2 includes 1F04 (0.5g) analysis for 'IS' samples only



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: Aug 12, 2011 Shipment
 Report Date: October 25, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

SMI11000476.1

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	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	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
540501	Soil	0.89	11.34	6.21	18.3	1016	4.0	3.7	134	1.50	1.1	0.1	18.0	<0.1	23.2	0.10	0.24	0.15	50	0.18	0.037
540502	Soil	0.58	9.17	4.91	16.5	316	3.8	3.2	107	1.18	1.0	<0.1	5.6	<0.1	23.1	0.26	0.21	0.14	37	0.20	0.039
540503	Soil	0.88	15.49	5.98	30.7	694	6.2	5.7	327	2.08	1.8	0.1	13.0	0.4	23.3	0.08	0.20	0.13	67	0.26	0.085
540504	Soil	1.23	10.52	7.53	41.2	941	4.2	4.0	533	1.36	1.2	<0.1	9.1	0.1	19.5	0.12	0.28	0.25	38	0.28	0.090
540505	Soil	1.55	24.87	4.48	17.3	1930	4.3	4.6	259	1.10	0.7	0.1	2.7	<0.1	69.9	0.61	0.32	0.23	31	1.55	0.085
540506	Soil	5.24	60.21	4.61	11.7	704	3.4	3.1	69	1.07	0.9	0.8	3.4	<0.1	43.7	0.61	0.23	0.15	27	0.57	0.073
540507	Soil	0.84	59.33	5.83	27.4	2420	7.4	10.3	450	1.62	0.9	0.5	5.7	<0.1	81.0	0.76	0.37	0.15	40	1.35	0.092
540508	Soil	2.33	135.9	6.50	26.4	1721	11.7	6.8	903	1.43	0.8	2.8	3.2	0.2	263.2	1.15	0.81	0.20	28	2.00	0.200
540509	Soil	2.40	20.39	5.16	15.6	464	3.2	3.8	63	1.37	1.3	0.1	77.1	0.1	60.4	0.24	0.46	0.22	36	0.47	0.084
540510	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.
540511	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.
540512	Soil	1.32	100.6	5.51	33.3	1796	15.0	11.3	575	2.29	2.7	0.5	7.2	0.2	141.3	0.70	0.61	0.18	52	1.59	0.095
540513	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.
540514	Soil	0.95	21.59	4.65	22.2	580	4.9	6.0	241	1.34	0.5	0.1	12.1	<0.1	60.6	0.34	0.19	0.13	42	0.91	0.067
540515	Soil	0.33	6.58	6.66	16.5	196	2.0	1.2	120	0.43	0.3	0.1	1.9	<0.1	27.3	0.17	0.10	0.10	18	0.25	0.041
540516	Soil	0.29	6.95	6.12	17.9	50	3.9	1.7	62	0.73	0.2	0.1	1.9	<0.1	34.5	0.21	0.10	0.35	25	0.28	0.038
540517	Soil	0.73	13.99	5.38	11.2	173	4.2	3.5	79	0.72	0.5	0.3	2.7	<0.1	35.1	0.09	0.11	0.14	30	0.33	0.048
540518	Soil	0.58	22.76	3.85	10.4	1004	3.8	7.1	96	1.00	0.5	0.7	3.7	<0.1	34.4	0.14	0.09	0.10	24	0.33	0.114
540519	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.
540520	Soil	0.54	11.40	8.89	22.5	973	4.2	2.3	216	0.97	0.8	<0.1	5.1	<0.1	20.2	0.22	0.14	0.14	30	0.22	0.067
540521	Soil	0.72	8.24	7.03	39.6	746	3.5	3.0	1170	0.85	0.7	<0.1	1.2	<0.1	21.4	0.15	0.13	0.09	25	0.41	0.099
540522	Soil	0.75	17.16	7.68	47.7	553	6.7	4.6	935	0.89	0.5	<0.1	0.7	<0.1	34.2	0.33	0.09	0.11	21	0.54	0.100
540523	Soil	0.65	7.36	6.58	38.8	1363	2.5	1.9	396	0.50	0.7	<0.1	0.5	<0.1	15.0	0.17	0.13	0.08	16	0.29	0.092
540401	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.



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Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

SMI11000476.1

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	
540501	Soil	2.5	21.8	0.22	62.3	0.044	<1	0.61	0.005	0.03	0.1	0.9	0.04	<0.02	52	0.2	<0.02	4.7	0.65	<0.1	<0.02
540502	Soil	2.0	16.1	0.11	110.5	0.036	<1	0.35	0.004	0.03	0.1	0.7	0.03	0.03	32	0.2	0.03	3.1	0.26	<0.1	<0.02
540503	Soil	2.5	25.5	0.37	76.3	0.076	<1	0.64	0.005	0.05	0.2	1.7	0.05	0.02	39	0.3	0.02	4.6	0.75	<0.1	<0.02
540504	Soil	1.8	18.0	0.21	95.5	0.042	2	0.41	0.007	0.09	0.2	1.1	0.09	0.06	128	0.3	0.04	2.8	1.02	<0.1	<0.02
540505	Soil	1.9	14.1	0.27	68.7	0.027	1	0.44	0.005	0.06	<0.1	0.9	0.04	0.11	134	0.4	<0.02	2.0	0.74	<0.1	<0.02
540506	Soil	4.2	13.3	0.18	56.4	0.020	<1	0.54	0.006	0.04	<0.1	0.8	<0.02	0.09	126	0.5	0.02	2.1	0.25	<0.1	<0.02
540507	Soil	5.3	18.3	0.40	87.5	0.022	1	0.88	0.007	0.08	0.2	0.9	0.06	0.09	128	0.2	0.03	3.4	0.62	<0.1	<0.02
540508	Soil	20.7	19.6	0.38	136.3	0.014	2	1.27	0.006	0.13	<0.1	2.6	0.10	0.16	184	0.8	<0.02	2.0	2.26	<0.1	<0.02
540509	Soil	1.8	9.0	0.17	185.0	0.019	1	0.44	0.007	0.06	0.2	1.2	0.02	0.09	110	0.3	0.13	2.2	0.63	<0.1	<0.02
540510	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.
540511	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.
540512	Soil	12.0	26.7	0.54	180.6	0.032	2	1.48	0.006	0.12	0.2	2.9	0.07	0.10	113	0.5	0.07	3.7	1.26	<0.1	<0.02
540513	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.
540514	Soil	2.1	16.7	0.31	102.4	0.041	<1	0.55	0.006	0.07	0.2	1.0	0.03	0.07	90	0.2	0.02	2.7	0.62	<0.1	<0.02
540515	Soil	2.4	6.2	0.07	98.9	0.018	<1	0.39	0.007	0.03	<0.1	0.2	0.02	0.03	83	0.2	<0.02	2.4	0.31	<0.1	<0.02
540516	Soil	2.7	15.3	0.06	130.6	0.041	2	0.46	0.006	0.02	<0.1	0.4	<0.02	0.03	77	0.2	<0.02	2.7	0.31	<0.1	<0.02
540517	Soil	3.2	12.3	0.15	53.5	0.064	<1	0.46	0.006	0.04	0.1	0.6	0.04	0.04	58	0.1	<0.02	3.0	0.54	<0.1	<0.02
540518	Soil	4.7	12.4	0.16	69.2	0.008	1	0.66	0.008	0.05	<0.1	0.2	0.05	0.08	89	0.2	<0.02	2.2	0.74	<0.1	<0.02
540519	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.
540520	Soil	1.6	18.8	0.11	79.7	0.038	<1	0.51	0.004	0.04	<0.1	0.3	0.04	0.05	102	0.3	0.03	2.2	0.43	<0.1	<0.02
540521	Soil	0.9	17.3	0.13	100.3	0.025	<1	0.33	0.006	0.06	0.1	0.4	0.06	0.07	160	0.3	0.03	1.6	0.40	<0.1	<0.02
540522	Soil	1.3	19.4	0.19	137.0	0.012	1	0.46	0.005	0.08	<0.1	0.2	0.03	0.06	102	0.2	0.02	1.9	0.49	<0.1	<0.02
540523	Soil	0.6	8.9	0.12	50.5	0.028	<1	0.26	0.005	0.07	<0.1	0.5	0.05	0.09	179	0.3	0.02	1.4	0.36	<0.1	<0.02
540401	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.



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Page: 2 of 2 Part 3

CERTIFICATE OF ANALYSIS

SMI11000476.1

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	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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	
540501	Soil	0.39	4.7	0.4	<0.05	<0.1	1.13	5.1	<0.02	<1	<0.1	1.7	<10	<2	0.75	11.01	6.61	20.4	1074	3.6	3.3
540502	Soil	0.28	2.6	0.2	<0.05	<0.1	0.86	4.0	<0.02	<1	<0.1	0.9	<10	<2	0.58	8.65	5.22	17.2	309	3.5	3.0
540503	Soil	0.63	8.4	0.3	<0.05	0.3	1.20	5.0	<0.02	<1	<0.1	3.8	<10	<2	0.83	14.60	6.44	30.9	754	5.5	5.6
540504	Soil	0.29	10.9	0.3	<0.05	0.2	0.74	3.5	<0.02	<1	<0.1	1.8	<10	<2	1.01	9.33	7.11	38.8	861	3.7	3.2
540505	Soil	0.39	7.6	0.3	<0.05	0.4	1.49	3.2	<0.02	<1	<0.1	4.8	<10	<2	1.32	21.91	4.33	16.6	1897	4.0	4.0
540506	Soil	0.32	3.5	0.2	<0.05	0.3	3.53	5.4	<0.02	<1	0.1	1.8	<10	<2	4.79	59.25	4.55	11.8	709	3.5	2.9
540507	Soil	0.45	6.5	0.2	<0.05	0.2	5.94	9.4	<0.02	1	0.3	5.6	<10	<2	0.71	57.42	5.73	29.1	1980	7.9	9.3
540508	Soil	0.34	12.9	0.3	<0.05	0.4	25.84	24.1	<0.02	<1	0.5	6.4	<10	<2	1.95	126.6	6.36	27.3	1616	11.2	6.5
540509	Soil	0.17	4.5	0.2	<0.05	0.2	0.89	3.4	<0.02	<1	<0.1	0.9	<10	<2	2.07	17.00	4.74	13.8	392	2.7	3.2
540510	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	173.5	2.22	6.6	1756	6.6	1.0
540511	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.	1.14	191.7	2.06	7.0	2371	6.5	1.5
540512	Soil	0.39	11.2	0.2	<0.05	0.2	11.88	16.3	<0.02	<1	0.3	8.4	<10	<2	1.18	96.94	5.61	35.6	1774	13.8	10.5
540513	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.	0.55	6.22	4.54	26.0	297	2.4	2.0
540514	Soil	0.34	9.6	0.1	<0.05	0.3	1.72	3.8	<0.02	<1	<0.1	2.7	<10	<2	0.89	20.43	4.61	21.1	542	4.9	5.2
540515	Soil	0.19	2.8	0.2	<0.05	<0.1	0.91	4.7	<0.02	<1	0.1	0.5	<10	<2	0.36	7.02	7.62	17.5	188	2.3	1.2
540516	Soil	0.32	3.0	0.3	<0.05	0.2	1.28	5.6	<0.02	<1	<0.1	0.5	<10	<2	0.26	6.25	6.25	18.6	36	3.6	1.6
540517	Soil	0.66	8.1	0.3	<0.05	0.1	2.11	6.4	<0.02	<1	0.1	1.4	<10	<2	1.33	12.37	4.89	10.5	131	3.8	2.9
540518	Soil	0.14	10.6	0.1	<0.05	<0.1	3.59	8.8	<0.02	<1	0.3	1.2	<10	<2	0.52	22.62	3.92	10.7	970	3.8	6.8
540519	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.	0.92	8.23	10.36	30.7	468	3.5	5.1
540520	Soil	0.34	4.3	0.2	<0.05	0.1	0.85	3.4	<0.02	<1	<0.1	0.9	<10	<2	0.47	11.11	8.89	22.9	968	4.0	2.1
540521	Soil	0.13	5.7	<0.1	<0.05	<0.1	0.55	1.7	<0.02	<1	<0.1	0.9	<10	<2	0.57	7.94	7.07	38.7	698	4.0	2.8
540522	Soil	0.11	11.9	<0.1	<0.05	<0.1	0.78	2.6	<0.02	<1	0.2	1.1	<10	<2	0.58	16.41	7.85	49.1	480	6.3	4.6
540523	Soil	0.20	8.0	0.1	<0.05	0.2	0.40	1.3	<0.02	<1	<0.1	0.6	<10	<2	0.64	7.07	6.66	41.8	1188	2.3	1.6
540401	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.	0.39	11.89	5.05	69.0	115	3.4	2.2



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Project: Aug 12, 2011 Shipment
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Page: 2 of 2 Part 4

CERTIFICATE OF ANALYSIS

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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
540501	Soil	147	1.43	0.9	0.1	7.9	<0.1	30.1	0.12	0.21	0.23	50	0.20	0.039	2.6	19.1	0.22	72.9	0.048	<20	0.68
540502	Soil	119	1.18	0.8	<0.1	9.6	<0.1	32.6	0.32	0.20	0.15	39	0.23	0.040	2.1	16.3	0.13	119.8	0.042	<20	0.40
540503	Soil	345	1.99	1.5	0.1	7.0	0.2	30.6	0.10	0.19	0.13	67	0.28	0.089	2.4	24.4	0.37	89.9	0.078	<20	0.70
540504	Soil	492	1.23	0.7	<0.1	29.3	0.1	23.8	0.14	0.23	0.17	37	0.28	0.085	1.6	15.7	0.20	88.3	0.036	<20	0.38
540505	Soil	239	1.03	0.8	0.1	10.4	<0.1	75.0	0.57	0.17	0.20	29	1.51	0.086	1.8	12.5	0.26	67.6	0.027	<20	0.44
540506	Soil	72	1.06	0.8	0.8	10.4	<0.1	51.2	0.70	0.16	0.16	28	0.62	0.076	4.1	13.8	0.19	62.5	0.022	<20	0.57
540507	Soil	442	1.67	0.9	0.4	12.4	<0.1	83.1	0.68	0.31	0.14	45	1.26	0.077	5.0	19.6	0.45	91.0	0.028	<20	0.99
540508	Soil	896	1.44	1.2	2.5	15.4	<0.1	254.8	1.16	0.68	0.13	28	1.90	0.172	19.0	19.6	0.36	136.9	0.008	<20	1.36
540509	Soil	58	1.21	1.0	<0.1	21.8	<0.1	62.6	0.22	0.34	0.21	33	0.42	0.077	1.5	7.3	0.16	181.3	0.012	<20	0.40
540510	Soil	201	0.19	0.5	0.5	15.8	<0.1	306.5	0.78	0.89	0.12	5	3.18	0.148	10.6	3.5	0.16	230.9	0.002	<20	0.43
540511	Soil	439	0.24	0.2	0.7	18.4	<0.1	280.9	1.20	1.19	0.09	5	2.77	0.130	9.2	4.2	0.13	237.7	0.002	<20	0.42
540512	Soil	586	2.27	2.7	0.5	9.3	0.1	157.3	0.78	0.50	0.11	52	1.57	0.096	12.1	27.0	0.56	195.4	0.026	<20	1.59
540513	Soil	151	0.33	0.4	<0.1	7.9	0.8	31.7	0.12	0.09	0.90	10	0.36	0.111	1.0	4.9	0.10	62.1	0.008	<20	0.24
540514	Soil	236	1.32	1.0	0.1	15.0	<0.1	75.5	0.36	0.19	0.14	43	0.92	0.072	2.4	17.0	0.32	107.5	0.047	<20	0.58
540515	Soil	133	0.45	0.4	0.1	5.1	<0.1	39.5	0.21	0.09	0.16	20	0.30	0.044	2.8	6.6	0.08	116.1	0.022	<20	0.46
540516	Soil	60	0.65	0.3	0.1	3.1	<0.1	38.4	0.21	0.09	0.13	23	0.27	0.038	2.7	12.4	0.06	133.9	0.034	<20	0.46
540517	Soil	73	0.68	0.5	0.3	2.8	<0.1	38.3	0.11	0.08	0.09	30	0.32	0.045	2.8	10.5	0.14	49.4	0.060	<20	0.44
540518	Soil	100	0.98	0.4	0.7	4.8	<0.1	42.8	0.12	0.08	0.09	24	0.36	0.117	4.9	12.1	0.16	74.3	0.009	<20	0.72
540519	Soil	1067	0.71	0.4	<0.1	5.8	<0.1	29.6	0.21	0.12	0.11	22	0.19	0.110	1.4	12.9	0.11	165.5	0.006	<20	0.48
540520	Soil	221	0.85	0.7	<0.1	5.5	<0.1	20.7	0.21	0.11	0.13	27	0.21	0.068	1.5	15.9	0.11	85.6	0.031	<20	0.54
540521	Soil	1173	0.84	0.6	<0.1	4.7	<0.1	23.3	0.19	0.10	0.07	25	0.38	0.095	0.8	16.0	0.13	102.3	0.018	<20	0.32
540522	Soil	904	0.82	0.4	<0.1	5.6	<0.1	40.5	0.34	0.07	0.11	20	0.54	0.096	1.5	18.6	0.20	144.1	0.010	<20	0.46
540523	Soil	401	0.37	0.5	<0.1	8.7	<0.1	15.1	0.19	0.09	0.08	12	0.29	0.097	0.5	6.4	0.11	54.3	0.017	<20	0.23
540401	Soil	2148	0.31	0.5	<0.1	15.8	<0.1	20.3	0.24	0.10	0.06	5	0.58	0.135	0.7	4.6	0.09	200.9	0.004	<20	0.26



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Page: 2 of 2 Part 5

CERTIFICATE OF ANALYSIS

SMI11000476.1

Method	Analyte	Unit	MDL	1F Na	1F K	1F W	1F Sc	1F TI	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce
				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
540501	Soil			0.004	0.04	0.1	0.8	0.04	0.03	45	0.1	<0.02	4.7	0.65	<0.1	<0.02	0.42	5.6	0.4	<0.05	0.1	1.26	5.4
540502	Soil			0.004	0.04	0.1	0.8	0.04	0.03	43	0.1	<0.02	3.2	0.29	<0.1	<0.02	0.34	3.0	0.3	<0.05	0.1	1.07	4.3
540503	Soil			0.004	0.06	0.2	1.6	0.05	0.03	54	0.1	<0.02	4.5	0.79	<0.1	<0.02	0.61	9.0	0.4	<0.05	0.3	1.27	4.9
540504	Soil			0.005	0.09	0.2	1.1	0.08	0.06	110	0.2	<0.02	2.5	0.85	<0.1	<0.02	0.28	9.8	0.2	<0.05	0.3	0.77	3.2
540505	Soil			0.004	0.06	0.1	0.8	0.05	0.11	113	0.3	<0.02	1.9	0.68	<0.1	<0.02	0.41	7.4	0.3	<0.05	0.5	1.50	2.9
540506	Soil			0.007	0.04	0.1	0.8	<0.02	0.09	130	0.4	<0.02	2.2	0.26	<0.1	<0.02	0.34	3.7	0.4	<0.05	0.4	3.62	5.3
540507	Soil			0.008	0.08	0.1	1.1	0.06	0.08	102	0.2	<0.02	3.9	0.60	<0.1	<0.02	0.46	6.9	0.3	<0.05	0.2	5.16	8.7
540508	Soil			0.007	0.13	0.1	1.2	0.10	0.15	192	0.6	<0.02	2.2	1.92	<0.1	<0.02	0.34	11.3	0.2	<0.05	0.2	23.27	22.3
540509	Soil			0.007	0.06	0.5	0.9	0.03	0.09	97	0.2	0.11	2.0	0.45	<0.1	<0.02	0.16	3.7	0.2	<0.05	0.2	0.75	2.8
540510	Soil			0.010	0.03	<0.1	0.5	0.06	0.23	144	0.6	<0.02	0.4	0.15	0.5	<0.02	0.09	1.8	0.2	<0.05	0.6	13.56	3.6
540511	Soil			0.009	0.04	<0.1	0.5	0.05	0.20	157	0.7	<0.02	0.4	0.17	0.3	<0.02	0.08	2.3	0.1	<0.05	0.5	12.20	4.0
540512	Soil			0.006	0.12	0.2	2.7	0.07	0.10	99	0.4	<0.02	3.8	1.13	<0.1	<0.02	0.45	11.0	0.2	<0.05	0.4	11.83	16.0
540513	Soil			0.009	0.08	0.1	0.2	<0.02	0.10	151	0.2	0.03	0.9	0.46	<0.1	0.03	0.13	6.9	0.3	<0.05	1.1	0.65	1.9
540514	Soil			0.006	0.08	0.2	1.1	0.05	0.07	90	0.2	<0.02	2.7	0.64	<0.1	<0.02	0.43	11.1	0.2	<0.05	0.4	1.88	4.2
540515	Soil			0.008	0.03	<0.1	0.3	0.03	0.03	77	0.1	<0.02	2.7	0.35	<0.1	<0.02	0.27	3.4	0.3	<0.05	0.2	1.17	5.6
540516	Soil			0.008	0.03	<0.1	0.4	<0.02	0.03	65	<0.1	<0.02	2.4	0.27	<0.1	<0.02	0.34	2.7	0.3	<0.05	<0.1	1.26	5.1
540517	Soil			0.006	0.04	<0.1	0.5	<0.02	0.04	47	0.1	<0.02	2.7	0.46	<0.1	<0.02	0.63	7.7	0.3	<0.05	0.2	2.04	5.6
540518	Soil			0.009	0.06	<0.1	0.2	0.04	0.09	91	<0.1	<0.02	2.2	0.75	<0.1	<0.02	0.19	11.4	0.2	<0.05	<0.1	3.77	9.0
540519	Soil			0.008	0.06	<0.1	0.1	0.04	0.08	70	0.2	<0.02	1.9	0.56	<0.1	<0.02	0.09	6.3	0.2	<0.05	<0.1	0.74	2.8
540520	Soil			0.005	0.04	0.1	0.2	0.03	0.06	94	0.2	<0.02	2.1	0.36	<0.1	<0.02	0.31	4.0	0.3	<0.05	0.1	0.81	3.0
540521	Soil			0.008	0.06	<0.1	0.2	0.04	0.07	105	0.1	<0.02	1.5	0.33	<0.1	<0.02	0.12	4.6	0.2	<0.05	<0.1	0.48	1.6
540522	Soil			0.005	0.07	<0.1	<0.1	0.03	0.06	100	0.1	<0.02	1.9	0.43	<0.1	<0.02	0.08	10.9	0.2	<0.05	0.9	0.82	2.7
540523	Soil			0.006	0.08	<0.1	0.3	0.05	0.09	176	0.2	<0.02	1.0	0.28	<0.1	<0.02	0.13	7.2	0.1	<0.05	0.5	0.33	1.0
540401	Soil			0.013	0.10	<0.1	0.2	0.22	0.13	224	0.2	<0.02	0.7	0.49	<0.1	<0.02	0.10	6.3	0.1	<0.05	<0.1	0.43	1.4



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Report Date: October 25, 2011

Page: 2 of 2 **Part** 6

CERTIFICATE OF ANALYSIS

SMI11000476.1

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
540501	Soil	<0.02	<1	0.1	1.8	<10	2
540502	Soil	<0.02	<1	<0.1	1.2	<10	<2
540503	Soil	<0.02	<1	<0.1	4.0	<10	<2
540504	Soil	<0.02	<1	<0.1	1.6	<10	<2
540505	Soil	<0.02	<1	<0.1	5.2	<10	<2
540506	Soil	<0.02	<1	0.1	1.8	<10	<2
540507	Soil	<0.02	<1	0.2	7.1	<10	4
540508	Soil	<0.02	<1	0.6	7.3	<10	2
540509	Soil	<0.02	<1	0.1	1.1	<10	<2
540510	Soil	<0.02	2	0.2	0.4	<10	<2
540511	Soil	<0.02	1	0.2	0.4	<10	<2
540512	Soil	<0.02	<1	0.4	9.3	<10	<2
540513	Soil	<0.02	<1	<0.1	0.4	<10	3
540514	Soil	<0.02	1	<0.1	3.4	<10	3
540515	Soil	<0.02	<1	<0.1	0.8	<10	4
540516	Soil	<0.02	<1	<0.1	0.6	<10	<2
540517	Soil	<0.02	<1	0.1	1.4	<10	<2
540518	Soil	<0.02	<1	0.3	1.4	<10	2
540519	Soil	<0.02	<1	0.2	0.9	<10	<2
540520	Soil	<0.02	<1	0.1	0.9	<10	4
540521	Soil	<0.02	<1	0.1	0.9	<10	2
540522	Soil	<0.02	1	<0.1	1.0	<10	<2
540523	Soil	<0.02	<1	<0.1	0.5	<10	<2
540401	Soil	<0.02	<1	<0.1	0.7	<10	<2



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Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

SMI11000476.1

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	
Pulp Duplicates																					
540501	Soil	0.89	11.34	6.21	18.3	1016	4.0	3.7	134	1.50	1.1	0.1	18.0	<0.1	23.2	0.10	0.24	0.15	50	0.18	0.037
REP 540501	QC	0.88	11.52	6.23	19.5	1090	4.0	3.6	142	1.59	1.4	0.1	163.1	<0.1	26.6	0.09	0.27	0.13	53	0.22	0.043
540512	Soil	1.32	100.6	5.51	33.3	1796	15.0	11.3	575	2.29	2.7	0.5	7.2	0.2	141.3	0.70	0.61	0.18	52	1.59	0.095
REP 540512	QC																				
Reference Materials																					
STD DS8	Standard	13.21	103.7	121.3	305.5	1781	37.1	7.4	612	2.48	23.6	2.7	108.6	6.7	61.3	2.22	5.08	5.72	43	0.70	0.077
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
STD OREAS45CA Expected																					
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank																				



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Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

SMI11000476.1

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																					
540501	Soil	2.5	21.8	0.22	62.3	0.044	<1	0.61	0.005	0.03	0.1	0.9	0.04	<0.02	52	0.2	<0.02	4.7	0.65	<0.1	<0.02
REP 540501	QC	2.8	21.6	0.22	66.6	0.062	<1	0.65	0.005	0.04	0.2	0.9	0.03	0.02	53	0.3	0.04	4.8	0.81	<0.1	<0.02
540512	Soil	12.0	26.7	0.54	180.6	0.032	2	1.48	0.006	0.12	0.2	2.9	0.07	0.10	113	0.5	0.07	3.7	1.26	<0.1	<0.02
REP 540512	QC																				
Reference Materials																					
STD DS8	Standard	15.1	120.8	0.61	274.1	0.112	2	0.95	0.100	0.42	3.1	2.2	5.56	0.16	211	5.2	4.92	4.8	2.48	0.1	0.07
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
STD OREAS45CA 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																				



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Page: 1 of 1 Part 3

QUALITY CONTROL REPORT

SMI11000476.1

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																					
540501	Soil	0.39	4.7	0.4	<0.05	<0.1	1.13	5.1	<0.02	<1	<0.1	1.7	<10	<2	0.75	11.01	6.61	20.4	1074	3.6	3.3
REP 540501	QC	0.40	5.8	0.3	<0.05	<0.1	1.32	5.7	<0.02	<1	<0.1	1.8	<10	<2							
540512	Soil	0.39	11.2	0.2	<0.05	0.2	11.88	16.3	<0.02	<1	0.3	8.4	<10	<2	1.18	96.94	5.61	35.6	1774	13.8	10.5
REP 540512	QC													1.17	95.82	5.62	34.3	1642	14.1	10.3	
Reference Materials																					
STD DS8	Standard	1.45	38.4	6.2	<0.05	2.0	6.24	29.3	2.02	49	4.9	27.2	122	357							
STD DS8	Standard													13.28	104.7	128.5	328.4	1831	35.6	6.9	
STD OREAS45CA	Standard													0.61	471.8	20.00	63.2	256	264.8	79.5	
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339	13.44	110	123	312	1690	38.1	7.5
STD OREAS45CA Expected														1	494	20	60	275	240	92	
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	



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Project: Aug 12, 2011 Shipment
 Report Date: October 25, 2011

Page: 1 of 1 Part 4

QUALITY CONTROL REPORT

SMI11000476.1

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	%	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																					
540501	Soil	147	1.43	0.9	0.1	7.9	<0.1	30.1	0.12	0.21	0.23	50	0.20	0.039	2.6	19.1	0.22	72.9	0.048	<20	0.68
REP 540501	QC																				
540512	Soil	586	2.27	2.7	0.5	9.3	0.1	157.3	0.78	0.50	0.11	52	1.57	0.096	12.1	27.0	0.56	195.4	0.026	<20	1.59
REP 540512	QC	573	2.22	2.7	0.5	11.4	0.1	157.5	0.77	0.49	0.11	52	1.56	0.092	11.5	26.7	0.55	183.7	0.026	<20	1.59
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard	634	2.48	27.2	2.8	110.4	5.3	73.7	2.53	4.43	5.67	42	0.74	0.086	16.4	120.4	0.62	314.2	0.111	<20	0.94
STD OREAS45CA	Standard	899	14.56	3.1	1.2	42.2	6.4	15.6	0.09	0.04	0.17	206	0.39	0.037	15.8	707.6	0.15	161.6	0.121	<20	3.85
STD DS8 Expected		615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	0.08	14.6	115	0.6045	279	0.113	2.6	0.93
STD OREAS45CA Expected		943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265	0.0385	15.9	709	0.1358	164	0.128		3.592
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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Page: 1 of 1 Part 5

QUALITY CONTROL REPORT

SMI11000476.1

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																					
540501	Soil	0.004	0.04	0.1	0.8	0.04	0.03	45	0.1	<0.02	4.7	0.65	<0.1	<0.02	0.42	5.6	0.4	<0.05	0.1	1.26	5.4
REP 540501	QC																				
540512	Soil	0.006	0.12	0.2	2.7	0.07	0.10	99	0.4	<0.02	3.8	1.13	<0.1	<0.02	0.45	11.0	0.2	<0.05	0.4	11.83	16.0
REP 540512	QC	0.005	0.12	0.2	2.7	0.06	0.10	94	0.3	0.03	3.7	1.11	<0.1	0.02	0.42	10.6	0.2	<0.05	0.3	11.80	15.5
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard	0.094	0.41	2.6	2.1	5.89	0.17	224	5.2	5.21	4.8	2.50	0.1	0.04	0.83	39.1	7.0	<0.05	1.1	6.36	31.0
STD OREAS45CA	Standard	0.007	0.07	<0.1	34.8	0.11	<0.02	21	0.4	0.05	18.1	1.11	<0.1	0.46	0.09	9.1	1.8	<0.05	17.7	7.83	35.6
STD DS8 Expected		0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08	1.1	39	6.7	0.003	2.1	6.1	29.8
STD OREAS45CA Expected		0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11	0.5	0.22	8.2	1.8		21.6	7.84	35
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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Report Date: October 25, 2011

Page: 1 of 1 Part 6

QUALITY CONTROL REPORT

SMI11000476.1

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							
540501	Soil	<0.02	<1	0.1	1.8	<10	2
REP 540501	QC						
540512	Soil	<0.02	<1	0.4	9.3	<10	<2
REP 540512	QC	0.02	<1	0.4	9.4	<10	3
Reference Materials							
STD DS8	Standard						
STD DS8	Standard	2.17	54	5.1	30.4	114	342
STD OREAS45CA	Standard	0.10	<1	0.5	8.8	29	61
STD DS8 Expected		2.19	55	5.2	26.34	110	339
STD OREAS45CA Expected		0.09			6.2	36	61
BLK	Blank						
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2