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ASSESSMENT REPORT

describing

**SOIL GEOCHEMICAL SAMPLING,
PROSPECTING AND HAND TRENCHING**

at the

HI PROPERTY

HI 1-12 YC89649-YC89660
13 YD71471

NTS 105G/06

Latitude 61°24'N; Longitude 131°18'W

located in the

Watson Lake Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

WOLVERINE MINERALS CORP.
and
STRATEGIC METALS LTD.

by

S. Eaton, B.Sc., GIT

April 2011

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INTRODUCTION

The HI property covers a system of auriferous quartz-arsenopyrite veins that lie near the Tintina Fault in southeastern Yukon. Wolverine Minerals Corp. can earn a 100% interest in the property subject to an option agreement with Strategic Metals Ltd.

This report describes a seven day exploration program that was conducted by Archer, Cathro & Associates (1981) Limited in June and July 2010 on behalf of Strategic Metals. The work was performed on June 26, 28 and 29, and July 1, 2, 3 and 13. It comprised prospecting, soil geochemical sampling and hand trenching. The author participated in and directed the program, and her Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The HI property consists of thirteen contiguous quartz claims, which are located in southeastern Yukon at latitude 61°24' north and longitude 131°18' west on NTS map sheet 105G/06 (Figure 1). Twelve of these claims were acquired prior to the 2010 exploration program, while the final one was staked in the fall, after a claim owned by another party expired. The property covers an area of approximately 250 hectares (2.5 sq. km.). The claims are all registered with the Watson Lake Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
HI 1-12	YC89649-YC89660	March 31, 2015
13	YD71471	October 28, 2011

*Expiry dates do not include 2010 work which has not yet been filed for assessment credit.

Access to and from the property was provided by a Hughes 500D helicopter operated by Kluane Airways from the Inconnu Fishing Lodge on McEvoy Lake, which is located 75 km to the northeast of the property.

The HI property lies about 90 km southeast of the community of Ross River, the nearest supply centre. The closest road access is from the Robert Campbell Highway, which at its nearest point is 35 km to the north of the property. The Robert Campbell Highway is usable in all seasons by two wheel drive vehicles.

HISTORY AND PREVIOUS WORK

In 1987, the Geological Survey of Canada (GSC) completed a regional stream sediment sampling program on NTS map sheet 105G (Friske et al, 2008). A sample from a creek to the north of the HI property returned strongly anomalous values for arsenic (400 ppm) and a moderately elevated value for gold (28 ppb).

In 1996, Jim Dodge (Dodgex Ltd.) discovered arsenopyrite- and pyrite-bearing quartz boulders on a ridge-top while following up the anomalous GSC stream sediment sample. Initial

prospecting and hand trenching reportedly returned gold grades between 1.0 and 5.8 g/t (Heon and Dodge, 2003). Dodgex staked the Maui 1 to 16 claims to cover this discovery.

In 1997, Dodgex optioned the property to Brett Resources Inc, which expanded the property to 96 claims. In 1997 and 1998, Brett Resources completed geological mapping, prospecting, hand trenching and soil and stream sediment geochemical sampling. Several zones of gold±arsenic±silver±lead±zinc mineralization were identified on the Maui property. The most encouraging zone encompasses Dodgex's arsenopyrite- and pyrite-bearing quartz veins. Several areas of elevated soil geochemistry were also outlined.

Brett Resources dropped the option, and in 2002, Dodgex conducted additional hand trenching.

In 2003, Solomon Resources optioned the property and carried out geological mapping, prospecting, hand trenching and further tested and extended the soil grid. Only one of five trenches reached bedrock. Several samples from this trench yielded strongly anomalous values for gold, silver and bismuth (see Mineralization section for results).

All but one of the Maui claims subsequently lapsed. The sole remaining claim covered the auriferous quartz-arsenopyrite veins that had been exposed by trenching.

In late 2009, Strategic Metals staked the HI claims to cover gold and arsenic soil anomalies adjacent to the known auriferous vein system.

GEOMORPHOLOGY

The HI property is situated in the St. Cyr Range of the Pelly Mountains. It is drained by creeks that flow into the Hoole River, which ultimately connects to the Pacific Ocean via the Pelly and Yukon Rivers.

The property covers a southeast to northwest trending, flat-topped ridge and parts of its moderately steep northern slope and very steep southern flank. The area is characterized as alpine to subalpine. Elevations range from about 1250 to 1700 m above sea level (asl). Outcrop exposure is sparse to moderate and is generally restricted to deeply incised creek cuts and steep slopes. Most of the property lies above treeline, which is at approximately 1500 m asl. Slopes above that elevation are characterized by alpine tundra and talus. Alpine vegetation primarily comprises low grasses and staghorn moss. The density and size of



Typical terrain and vegetation at the HI property

vegetation gradually increases on lower slopes, which are treed with fir and spruce. Understorey consists of low shrubs and moss. The creeks draining the north side of the ridge have been informally named Caribou Creek (west) and Ptarmigan Creek (east).

The property is blanketed by thin but extensive overburden. Much of the overburden in the region is associated with the most recent Cordilleran ice sheet, the McConnell glaciation, which is believed to have covered south and central Yukon between 26,500 and 10,000 years ago (Yukon Geological Survey, 2010). Finlayson Lake map area was affected by three lobes of that ice sheet. The Cassiar lobe, which flowed in a northwesterly direction, covered the area southwest of the Pelly Mountains. The Liard lobe, which flowed east to southeast, covered the area southeast of the Pelly Mountains. The area north of the Pelly Mountains was covered by the east-northeast flowing Selwyn lobe. A complex system of ice-caps and cirque glaciers was active at high elevations in the Pelly Mountains and contributed to the ice bodies surrounding them.

The climate in the HI area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively mild, arctic cold fronts often cover the area and snowfall can occur in any month. The property is mostly snow free from early June to late September.

REGIONAL GEOLOGY

The HI property, though not of primary interest for base metals, lies within the Finlayson Lake Volcanogenic Massive Sulphide (VMS) District of southeastern Yukon. This district has been the focus of numerous government and industry sponsored studies due its VMS potential. The Geological Survey of Canada mapped the Finlayson Lake area (NTS map sheet 105G) twice at a 1:250,000 scale (Wheeler *et al.*, 1960 and Tempelman-Kluit, 1977). In the late 1990s and early 2000s, the Yukon Geological Survey performed more detailed (1:50,000 scale) mapping in the area and in 2002, it completed a geological compilation and updated the lithological names (Bond *et al.*, 2002). In 2003, Gordey and Makepeace incorporated this data into a Yukon-wide geological compilation. The following geological descriptions are based on the published data.

The Finlayson Lake District is located within an outlier of Yukon-Tanana and Slide Mountain Terranes (Figure 3) and affiliated overlap assemblages (Murphy *et al.*, 2006). It is bounded by the Tintina Fault in the southwest and the Inconnu Thrust Fault in the northeast.

The Yukon-Tanana and Slide Mountain Terranes represent continental arc and back-arc basin sequences that developed along the ancient Pacific margin of North America during late Devonian through Permian (Murphy *et al.*, 2006). In the Finlayson Lake District these terranes are characterized by variably deformed and metamorphosed, lower greenschist to amphibolite facies metasedimentary and metavolcanic rocks and affiliated metaplutonic suites. Rocks of the Slide Mountain Terrane are not present within the HI property area.

Yukon-Tanana Terrane is juxtaposed against Cassiar Terrane along the Tintina Fault, which is a northwest trending transcurrent fault that produced approximately 425 km of dextral strike-slip offset between 58 and 67 million years ago (Mortensen, 2004). Cassiar Terrane comprises a belt

of Upper Proterozoic to Upper Triassic parautochthonous, miogeoclinal sediments that extends for 1500 km from northern interior B.C. into southern Yukon (Pope and Sears, 1997).

In the HI property area Yukon-Tanana Terrane is represented by metasedimentary rocks of Late Proterozoic and Paleozoic Nisling Assemblage (PPN1) and Devonian to Mississippian Nasina Assemblage (DMN1), while Cassiar Terrane is characterized by Devonian, Mississippian and older(?) Pelly Gneiss Suite (DMgPW). All units are shown on Figure 4 and are described in greater in detail in Table I.

Table I – Lithological Units (after Gordey and Makepeace, 2003)

Unit Name	Map Name	Age	Terrane	Description
Pelly Gneiss Suite	DMgPW	Devonian, Mississippian and older?	Cassiar	Foliated medium grained, homogeneous biotite granite gneiss to biotite or hornblende granodiorite gneiss; massive to strongly foliated diorite to granodioritic gneiss; includes interfoliated amphibolite, quartz-mica schist and phyllite.
Nasina Assemblage	DMN1	Devonian, Mississippian and older?	Yukon-Tanana	Dark grey to black, fine grained, graphitic and non-graphitic quartzite, grey micaceous quartzite and quartz muscovite (+/-chlorite; +/- feldspar augen) schist, locally garnetiferous; minor graphitic stretched metaconglomerate and metagrit.
Nisling Assemblage	PPN1	Late Proterozoic and Paleozoic	Yukon-Tanana	Dark green to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, garnetiferous; felsic chlorite-biotite orthogneiss; rare amphibolite; minor (?) two-mica gneiss and hornblende diorite gneiss.

PROPERTY GEOLOGY

Property-scale mapping was carried out by Brett Resources in 1997 (Tulk and Tucker, 1998) and Solomon Resources in 2003 (Heon and Dodge, 2003). Strategic Metals did not complete any mapping in 2010. The following geological descriptions are taken from the published data.

The HI claims are mainly underlain by a package of metasedimentary rocks, which correspond to Nasina Assemblage (Figure 5). This package is subdivided into three local subunits: 1) quartzite, psammite and phyllitic psammite; 2) quartz-muscovite±biotite±garnet pelitic schist with local quartz-biotite porphyroblasts and local interlayered chloritic schist; and 3) tan to rusty weathering calcareous schist and marble that have gradational contacts with the other two subunits. Compositional layering between these subunits is distinct within siliceous horizons and at the contact between siliceous and calcareous beds. The metasedimentary package generally strikes northwesterly with a moderate dip to the northeast. Small, east- and west-verging parasitic folds have been observed in the siliceous part of the sequence.

The metasedimentary package overlies a thin horizon of quartz-sericite felsic volcanic schist, which is exposed on the north side of the ridge. The schist is fine grained, light tan and strongly foliated. It is composed of quartz and feldspar with sericite on foliation laminae.

Both the metasediments and volcanic schist were intruded to the north by Mid-Cretaceous quartz monzonite. The quartz monzonite ranges from undeformed with euhedral feldspar megacrysts to gneissic with augen shaped megacrysts. It is light grey and usually weathers rusty due to fine disseminated pyrite. Potassium feldspar megacrysts range in size from one to four centimetres. The groundmass comprises feldspar, quartz and hornblende, which is occasionally retrograded to chlorite.

MINERALIZATION AND HAND TRENCHING

Mineralization at the HI property comprises arsenopyrite-quartz veins on the ridge-top (Zone 1), massive pyrite boulders near the head of Caribou Creek (Zone 2), pyritic volcanic schist within Caribou Creek (Zone 3), and a zone of tourmaline-arsenopyrite-quartz veins on the ridge (Zone 4). The locations of these zones are illustrated on Figure 5.

Work in 2010 was performed prior to Strategic Metal's acquisition of the auriferous arsenopyrite-quartz vein zone and focussed on determining the source of scattered high gold- and arsenic-in-soil values. Prospecting was limited by vegetation, extensive overburden cover and the paucity of legible soil sample site markers. The following descriptions of the mineralized zones are largely based on the historical assessment reports for the Maui property (Tulk and Tucker, 1998 and Heon and Dodge, 2003).

Zone 1 has been tested by of five hand trenches (T-1 to T-5) that were designed to locate the source of auriferous arsenopyrite-quartz boulders found on surface. Table II contains the length and azimuth of each trench.

Table II – Trench Data

Trench	Length (m)	Azimuth (°)
T-1	3	085
T-2	6.8	055
T-3	NR	NR
T-4	8	005
T-5	5.7	058

NR – Not reported

Mineralization in the trenches is characterized by heterogeneous amounts (1 to 20%) of massive to granular arsenopyrite in stringers, pods and bands within white to yellow quartz. Local scorodite staining is present. Fine-grained sphalerite and pyrite occur in T-1, -2 and -5. The presence of sulphosalts in T-2 has been proposed from thin section work. Light grey and brown tourmaline has also been observed. Minor faulting has been inferred from the presence of clay-rich pods that locally contain mineralized quartz fragments.

Abundant quartz material was excavated in T-1, but the quartz appears to be fractured and slightly displaced by weathering processes. No solid bedrock was encountered. The trench cuts mineralized quartz veins and alteration haloes in schist wallrocks. Orange and red clay from weathering and/or alteration surrounds the mineralized quartz blocks. Mineralization consists of arsenopyrite pods and stringers, very fine-grained sphalerite pods and disseminated pyrite cubes. Sulphides locally occur along fractures and foliation planes in the schist host rock. Accessory minerals include chlorite, tourmaline and light green mica. A late white bull quartz vein cuts the mineralized zone at the end of the trench. Of all the trenches, T-1 is the richest in sphalerite; however, samples high in zinc are low in gold. Most of the significant gold values in T-1 come from samples of white or greenish clayey material, which occasionally displays a fine boxwork texture and locally contains arsenopyrite pods or fragments. Seventeen samples from excavated mineralized blocks collected in 2003 averaged 0.461 g/t gold (peak of 1.79 g/t), 9065 ppm zinc, 242 ppm bismuth and 53 ppm tin (Heon and Dodge, 2003). Most arsenic values exceeded the upper detection limit of 9999 ppm.

Trench T-2 is the only trench that reached bedrock (at least in part). Vertically banded quartz-sulphide mineralization parallels the direction of the trench, but the dimension, direction and continuity of the structure was not determined. Eighteen “reliable” samples and six “marginal” ones were collected from this trench in 2003 (Heon and Dodge, 2003). Of the eighteen reliable samples, three were chip samples from bedrock and the remainder were from excavated blocks. The chip samples averaged 1.553 g/t gold, 29.1 g/t silver, 2225 ppm zinc and 982 ppm bismuth over 4.4 m, while the excavated blocks averaged 1.215 g/t gold, 144 g/t silver, 4323 ppm zinc, 2486 ppm lead and 1243 ppm bismuth.

No data was reported for T-3.

T-4 was not completed due to time constraints; however, eleven samples from mineralized blocks within the trench averaged 0.189 g/t gold (peak of 0.503 g/t) and 130 ppm bismuth with subdued silver values (Heon and Dodge, 2003).

T-5 cut jumbled, rusty quartz-arsenopyrite material with dirty fractures and weathered sulphides. Pods of yellowish-green clay alteration were exposed on the trench walls. Six samples were collected from T-5 in 2003 – three discontinuous chip samples and three from excavated blocks. The chip samples returned between 0.250 and 1.244 g/t gold and 118 and 1767 ppm bismuth over an average width of one metre. Samples from the excavated blocks averaged 0.164 g/t gold (peak of 244 ppb) and 68 ppm bismuth (Heon and Dodge, 2003).

Zone 2 comprises a train of rusty pyritic boulders measuring up to 70 cm in diameter (Heon and Dodge, 2003). Three samples from these boulders reportedly yielded between 1.0 and 3.4 g/t gold. Two of the samples consisted of banded pyrite, arsenopyrite and quartz, with tourmaline and trace chalcopyrite visible in thin section. The other sample comprised patchy arsenopyrite in oxidized quartz vein. The boulder train was relocated in 2010 and a hand trench was dug perpendicular to its trend. The trench was 1.7 m deep and did not reach bedrock.

Zone 3 lies at the top of Caribou Creek and consists of rusty weathering, felsic volcanic quartz-sericite schist with disseminated pyrite and arsenopyrite (Tulk and Tucker, 1998). Three

samples from this unit averaged 2.437 g/t gold (peak of 5.28 g/t). Downstream from the metavolcanics patchy mineralization was observed in the quartz monzonite. Sporadic zones of rusty, clay altered quartz monzonite containing up to 10% disseminated pyrite, 5% blebby galena and 5% blebby to disseminated arsenopyrite are present along the length of Caribou Creek. This material returned subdued gold values (< 0.020 g/t), but contained strongly elevated lead and weakly elevated zinc. The best sample yielded 10,900 ppm lead and 764 ppm zinc.

Zone 4 comprises a 20 m wide zone of silicification and arsenopyrite mineralization that is hosted within the metasediments near the centre of the property (Tulk and Tucker, 1998). The zone trends northeast for approximately 600 m and appears to be steeply dipping (approximately 70°) to the southeast. In the immediate footwall of this zone, biotite alteration has been observed and larger, discordant, barren, white quartz veins are common. Mineralization consists of up to 5% finely disseminated and blebby arsenopyrite with lesser pyrite hosted in silicified quartz-biotite-sericite schist. A fine stockwork of black silica veins is often present. Grab samples yielded subdued gold values of up to 0.015 g/t. A small (one by one metre) gossan of very rusty, goethitic quartz stockwork lies at the southern end of the trend. Two samples from that gossan averaged 0.267 g/t gold.

STREAM SEDIMENT AND SOIL GEOCHEMISTRY

Stream Sediment Geochemistry

A GSC stream sediment sample collected in 1987 near the mouth of Caribou Creek yielded 28 ppb gold (95th percentile on NTS map sheet 105G) and 400 ppm arsenic (99th percentile). Samples collected in 1998 from the creeks immediately north of the current HI property also yielded high arsenic values (between 208 and 428 ppm) but they returned only one weakly elevated gold value (10 ppb). Figure 5 illustrates gold results for stream sediment samples.

Soil Geochemistry

In 1998 and 2003, grid soil sampling was conducted in the northwest quadrant of the current HI property. In 2010, an additional 250 grid and contour soil samples were collected to confirm the historical work and to test other parts of the property. Four of these samples were collected along the floor of TR10-01.

All 2010 soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 5 to 30 cm deep holes dug by hand-held auger. They were placed into individually pre-numbered Kraft paper bags.

The soil samples were sent to ALS Chemex in North Vancouver, B.C., where they were dried, screened to -180 microns, dissolved in aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma with atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21).

Soil sample locations are shown on Figure 6, while results for gold, arsenic, silver, lead and zinc are illustrated thematically on Figure 7 to 11, respectively. Certificates of Analysis are provided in Appendix II. Anomalous thresholds and peak values for soil samples are listed in Table III.

Table III – Geochemical Data for Soil Samples

Element	Anomalous Thresholds			
	Weak	Moderate	Strong	Peak
Gold (ppb)	≥ 20 < 50	≥ 50 < 100	≥ 100	160
Arsenic (ppm)	≥ 200 < 500	≥ 500 < 1000	≥ 1000	4450
Silver (ppm)	≥ 1.0 < 2.0	≥ 2.0	n/a	3.0
Lead (ppm)	≥ 200 < 500	≥ 500 < 1000	≥ 1000	1400
Zinc (ppm)	≥ 500 < 1000	≥ 1000	n/a	1340

Several moderately to strongly elevated gold values occur sporadically across the property. Two strong values (160 and 155 ppb) were obtained by historical sampling but those sample sites could not be relocated in 2010.

Anomalous arsenic values form a broad zone within the centre of the property. This zone encompasses most of the elevated gold values.

Weakly to moderately anomalous silver values are scattered across the property and are largely coincident with elevated lead and zinc values. These three elements are primarily clustered in the north-central part of the property.

The soil samples collected along the bottom of TR10-01 returned weakly elevated values for gold, silver and zinc, and moderately to strongly anomalous values for arsenic and lead. The values from these samples are elevated relative to those from soil samples taken nearby at surface.

DISCUSSION AND CONCLUSIONS

The HI property hosts four known zones of auriferous mineralization and scattered gold, arsenic, silver, lead and zinc soil anomalies. It lies immediately north of the Tintina Fault within Finlayson Lake District.

Systematic exploration of the property in 2010 was hampered for two reasons: 1) Strategic Metals did not own the ground covering the strongest mineralization (Zone 1) at that time, and 2) much of the property is covered by extensive overburden and most areas of interest lack bedrock exposure.

Grid and contour soil sampling generally confirmed historical results. The soil samples collected from the bottom of a 1.7 m deep trench yielded significantly higher values for all elements of interest relative to the neighbouring samples taken immediately below surface. This suggests that samples collected by conventional near-surface sampling techniques may not accurately represent the underlying material.

Systematic hand trenching should be carried out in the vicinity of the historical trenches (Zone 1) in order to determine the orientation and size of the mineralized system and to better assess gold grades. If the auriferous metavolcanic unit (Zone 3) lies at or near surface, a trench should be dug perpendicular to compositional layering and it should be continuously chip sampled. Detailed prospecting should be conducted around the gossan at the southern end of the tourmaline-arsenopyrite-quartz vein zone (Zone 4) in order to assess its size potential. Prospecting and possibly follow-up trenching should also be performed within the coincident silver-, lead- and zinc-in-soil anomaly in the northern part of the property.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

S. Eaton, B.Sc. Geology, GIT

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Sarah Eaton, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in North Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2007 with a B.Sc. in Honours Geological Sciences.
2. From 2002 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia and Northwest Territories.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 154922).
4. I have personally participated in the field work reported herein and have interpreted all data resulting from this work.

Sarah Eaton, B.Sc. (Hon.) Geology, GIT

APPENDIX II
CERTIFICATES OF ANALYSIS



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

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Page: 1
Finalized Date: 16-JUL-2010
Account: MTT

CERTIFICATE VA10091015

Project: Hawaii(Hi)

P.O. No.:

This report is for 246 Soil samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: STRATEGIC METALS LTD.
ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A

Total # Pages: 8 (A - C)

Plus Appendix Pages

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Account: MTT

CERTIFICATE OF ANALYSIS VA10091015

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC90411		0.18	0.002	<0.2	2.20	14	<10	70	1.0	2	0.42	<0.5	14	51	31	3.02
CC90412		0.18	0.005	<0.2	2.05	15	<10	80	0.6	<2	0.79	<0.5	23	41	22	4.70
CC90413		0.24	0.002	0.2	2.50	15	<10	60	1.1	<2	0.65	<0.5	19	42	24	3.77
CC90414		0.28	0.002	<0.2	2.48	42	<10	70	1.0	<2	0.26	<0.5	14	38	23	3.27
CC90415		0.22	0.002	<0.2	1.91	41	<10	80	0.7	<2	0.23	<0.5	9	29	17	2.58
CC90416		0.22	0.002	<0.2	2.99	89	<10	110	1.7	2	0.42	<0.5	23	46	34	4.19
CC90417		0.22	<0.001	<0.2	0.51	8	<10	20	<0.5	<2	0.19	<0.5	2	4	8	0.61
CC90418		0.22	0.005	<0.2	2.32	62	<10	50	0.9	2	0.25	<0.5	25	32	38	4.04
CC90419		0.22	0.003	<0.2	1.11	41	<10	40	<0.5	<2	0.16	<0.5	7	16	18	1.97
CC90420		0.26	0.013	<0.2	2.10	227	<10	60	0.7	3	0.17	<0.5	17	33	36	3.95
CC90421		0.20	0.038	0.7	3.20	620	<10	40	1.2	<2	0.13	<0.5	43	39	107	7.26
CC90422		0.24	0.010	<0.2	2.17	147	<10	50	0.8	<2	0.18	<0.5	34	40	45	4.23
CC90423		0.28	0.006	<0.2	2.00	343	<10	80	0.9	<2	0.31	<0.5	16	36	35	3.59
CC90424		0.22	0.006	<0.2	2.06	373	<10	50	0.9	2	0.15	<0.5	12	35	22	4.58
CC90425		0.24	0.004	<0.2	2.36	343	<10	70	1.2	<2	0.46	0.5	20	40	27	4.77
CC90426		0.24	0.004	<0.2	1.99	347	<10	70	1.5	<2	0.53	<0.5	21	34	33	5.09
CC90427		0.24	0.003	<0.2	1.24	312	<10	60	0.5	<2	0.07	<0.5	7	26	19	2.72
CC90428		0.16	0.004	0.9	2.24	532	<10	80	1.2	<2	0.31	<0.5	22	130	44	4.17
CC90429		0.20	0.003	<0.2	1.54	118	<10	50	0.6	<2	0.09	<0.5	10	61	27	3.24
CC90430		0.22	0.001	<0.2	1.03	155	<10	40	<0.5	<2	0.09	<0.5	6	22	17	2.08
CC90431		0.22	0.003	<0.2	1.40	209	<10	80	0.9	2	0.15	<0.5	8	29	29	3.33
CC90432		0.20	<0.001	<0.2	0.41	7	<10	10	<0.5	<2	0.05	<0.5	1	3	5	0.47
CC90433		0.26	0.009	1.2	1.79	336	<10	60	1.0	<2	0.12	<0.5	21	25	43	4.34
CC90434		0.26	0.003	0.2	2.05	128	<10	60	1.1	<2	0.09	<0.5	17	39	43	4.52
CC90435		0.22	0.004	0.2	1.87	108	<10	50	0.9	<2	0.12	<0.5	14	36	34	4.27
CC90436		0.22	0.001	0.2	0.97	55	<10	20	<0.5	<2	0.05	<0.5	4	25	17	2.07
CC90437		0.28	0.002	0.2	2.14	136	<10	50	0.9	2	0.09	<0.5	23	40	50	4.66
CC90438		0.34	0.006	0.7	2.63	324	<10	100	1.4	2	0.60	<0.5	27	41	59	6.82
CC90439		0.44	0.004	0.7	2.65	511	<10	120	1.4	<2	0.43	<0.5	19	66	38	5.03
CC90440		0.26	0.003	0.9	2.60	485	<10	140	1.2	3	0.57	<0.5	17	80	40	4.71
CC90441		0.20	0.004	0.9	1.92	371	<10	160	2.1	3	0.55	<0.5	27	52	49	4.94
CC90442		0.22	0.002	<0.2	2.14	303	<10	190	1.3	2	0.51	<0.5	13	57	25	4.00
CC90443		0.24	0.003	<0.2	2.23	258	<10	80	1.0	2	0.18	<0.5	9	47	29	4.40
CC90444		0.24	0.003	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC90445		0.28	<0.001	<0.2	1.07	151	<10	100	<0.5	<2	0.50	<0.5	5	19	14	1.80
CC90446		0.22	0.007	0.9	1.92	680	<10	130	1.7	4	0.48	<0.5	13	38	28	3.65
CC90447		0.24	0.005	0.2	1.85	283	<10	90	1.1	<2	0.69	<0.5	13	35	45	3.56
CC90448		0.30	0.004	0.5	1.79	219	<10	90	1.6	2	0.30	<0.5	19	22	35	4.09
CC90449		0.18	0.004	0.2	1.90	121	<10	80	1.2	2	0.38	1.0	16	32	29	3.32
CC90450		0.32	0.007	0.5	3.05	285	<10	100	1.6	3	0.50	1.2	20	55	39	4.31



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Project: Hawaii(Hi)

CERTIFICATE OF ANALYSIS VA10091015

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC90411		<10	<1	0.06	20	0.73	320	<1	<0.01	37	590	13	0.05	<2	2	47
CC90412		10	1	0.09	10	0.90	955	1	0.01	45	1020	20	0.07	<2	3	79
CC90413		10	<1	0.07	20	1.03	549	<1	<0.01	44	670	17	0.05	<2	3	60
CC90414		<10	<1	0.08	20	0.78	360	<1	<0.01	39	800	13	0.03	<2	3	29
CC90415		10	<1	0.07	10	0.57	234	1	<0.01	27	630	10	0.03	<2	1	37
CC90416		10	<1	0.14	20	1.06	577	<1	0.01	53	590	13	0.02	<2	5	74
CC90417		<10	<1	0.04	<10	0.10	67	<1	0.01	4	530	<2	0.02	<2	<1	15
CC90418		<10	<1	0.12	30	1.03	344	<1	<0.01	52	920	11	0.02	<2	3	21
CC90419		<10	<1	0.09	10	0.43	89	<1	<0.01	17	550	10	0.04	<2	1	16
CC90420		<10	<1	0.10	30	0.89	205	<1	<0.01	38	530	14	0.02	<2	2	16
CC90421		10	<1	0.07	50	1.36	417	1	<0.01	100	840	112	0.08	<2	5	12
CC90422		10	1	0.09	40	1.00	365	1	<0.01	70	750	19	0.06	<2	4	13
CC90423		10	<1	0.10	30	1.06	421	<1	<0.01	44	780	10	0.06	<2	4	22
CC90424		10	<1	0.10	20	0.73	654	<1	<0.01	29	870	23	0.08	<2	2	18
CC90425		<10	<1	0.12	20	0.97	659	<1	<0.01	47	890	20	0.03	<2	4	60
CC90426		10	<1	0.14	50	1.01	1055	<1	<0.01	50	700	18	0.03	2	6	80
CC90427		10	<1	0.06	20	0.30	240	1	<0.01	20	870	13	0.07	<2	<1	13
CC90428		10	<1	0.14	40	1.08	616	1	<0.01	79	930	19	0.08	<2	5	38
CC90429		10	<1	0.09	20	0.63	308	1	<0.01	34	650	13	0.04	<2	2	12
CC90430		<10	<1	0.06	10	0.35	226	<1	<0.01	18	560	9	0.05	2	1	14
CC90431		<10	<1	0.08	40	0.40	403	1	<0.01	22	1050	17	0.09	<2	1	24
CC90432		<10	<1	0.02	<10	0.04	20	<1	0.01	2	230	2	0.02	<2	<1	8
CC90433		<10	<1	0.08	40	0.51	581	1	<0.01	48	870	46	0.05	2	2	15
CC90434		<10	1	0.15	40	0.80	404	1	<0.01	35	720	20	0.05	<2	3	17
CC90435		<10	<1	0.10	30	0.73	352	1	<0.01	33	740	20	0.04	2	3	14
CC90436		10	<1	0.05	20	0.26	154	1	<0.01	13	690	10	0.06	2	<1	9
CC90437		10	<1	0.10	40	0.90	680	1	<0.01	51	700	43	0.06	<2	2	15
CC90438		10	<1	0.08	50	0.95	1610	1	<0.01	53	1080	117	0.06	<2	8	67
CC90439		10	<1	0.14	30	1.30	645	1	<0.01	47	520	22	0.03	<2	5	42
CC90440		10	1	0.13	40	1.34	599	1	0.01	42	1000	19	0.07	<2	4	48
CC90441		10	<1	0.15	40	1.04	932	1	0.01	58	1270	17	0.05	<2	9	26
CC90442		10	<1	0.14	20	0.99	771	1	0.02	23	1390	11	0.08	<2	2	24
CC90443		10	<1	0.10	30	0.65	339	1	0.01	26	990	16	0.09	<2	1	16
CC90444		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC90445		<10	<1	0.06	10	0.27	538	1	0.02	12	790	13	0.08	<2	<1	37
CC90446		<10	<1	0.09	30	0.91	376	<1	0.01	35	950	32	0.06	<2	4	45
CC90447		10	<1	0.13	40	0.81	523	1	0.02	37	770	57	0.07	<2	3	68
CC90448		<10	<1	0.09	50	0.90	884	1	0.01	49	610	18	0.03	<2	4	31
CC90449		<10	<1	0.06	20	0.65	770	<1	0.03	35	500	33	0.05	<2	2	40
CC90450		10	<1	0.15	20	1.22	742	<1	0.05	49	870	30	0.03	<2	5	67



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
LOR		20	0.01	10	10	1	10
CC90411		<20	0.05	<10	<10	37	<10
CC90412		<20	0.09	<10	<10	43	<10
CC90413		<20	0.06	<10	<10	40	<10
CC90414		<20	0.06	<10	<10	36	<10
CC90415		<20	0.04	<10	<10	30	<10
CC90416		<20	0.10	<10	<10	42	<10
CC90417		<20	0.03	<10	<10	13	<10
CC90418		<20	0.05	<10	<10	37	<10
CC90419		<20	0.03	<10	<10	29	<10
CC90420		<20	0.04	<10	<10	44	<10
CC90421		20	0.01	<10	<10	45	<10
CC90422		<20	0.04	<10	<10	44	<10
CC90423		<20	0.06	<10	<10	49	<10
CC90424		<20	0.04	<10	<10	38	<10
CC90425		<20	0.05	<10	<10	42	<10
CC90426		<20	0.04	<10	<10	27	<10
CC90427		<20	0.01	<10	<10	36	<10
CC90428		<20	0.05	<10	<10	57	<10
CC90429		<20	0.06	<10	<10	54	<10
CC90430		<20	0.04	<10	<10	28	<10
CC90431		<20	0.02	<10	<10	39	<10
CC90432		<20	0.02	<10	<10	12	<10
CC90433		<20	0.02	<10	<10	29	<10
CC90434		<20	0.04	<10	<10	32	<10
CC90435		<20	0.04	<10	<10	31	<10
CC90436		<20	0.01	<10	<10	37	<10
CC90437		<20	0.04	<10	<10	44	<10
CC90438		<20	0.02	<10	<10	40	<10
CC90439		<20	0.05	<10	<10	67	<10
CC90440		<20	0.05	<10	<10	73	<10
CC90441		<20	0.02	<10	<10	50	<10
CC90442		<20	0.03	<10	<10	70	<10
CC90443		<20	0.03	<10	<10	56	<10
CC90444		NSS	NSS	NSS	NSS	NSS	NSS
CC90445		<20	0.02	<10	<10	28	<10
CC90446		<20	0.02	<10	<10	35	<10
CC90447		<20	0.04	<10	<10	34	<10
CC90448		20	0.01	<10	<10	24	<10
CC90449		<20	0.03	<10	<10	34	<10
CC90450		<20	0.07	<10	<10	49	10



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC90451		0.16	<0.001	<0.2	0.61	20	<10	60	<0.5	2	0.06	<0.5	2	4	8	1.49
CC90452		0.20	0.001	0.3	0.49	<2	<10	50	<0.5	<2	0.06	<0.5	1	2	6	0.69
CC90453		0.18	0.002	0.3	0.70	16	<10	50	<0.5	<2	0.05	<0.5	2	5	6	1.45
CC90454		0.18	0.001	0.4	1.58	44	<10	100	1.5	3	0.27	<0.5	11	20	20	2.85
CC90455		0.22	0.002	0.2	1.26	39	<10	60	1.2	4	0.13	<0.5	4	11	12	2.50
CC90456		0.16	0.005	0.3	0.42	23	<10	30	0.7	2	0.06	<0.5	2	3	14	1.91
CC90457		0.22	<0.001	<0.2	1.48	66	<10	60	1.0	<2	0.16	<0.5	8	23	9	2.71
CC90458		0.24	<0.001	0.3	0.61	7	<10	40	0.5	<2	0.06	<0.5	1	3	5	0.93
CC90459		0.16	<0.001	<0.2	0.59	15	<10	40	<0.5	<2	0.10	<0.5	3	6	4	1.06
CC90460		0.18	<0.001	<0.2	1.45	83	<10	80	1.1	<2	0.09	0.5	11	18	14	3.49
CC90461		0.18	<0.001	<0.2	0.74	16	<10	50	<0.5	<2	0.04	<0.5	2	7	5	1.44
CC90462		0.18	0.002	0.2	1.49	338	<10	70	1.1	<2	0.26	1.4	12	26	20	3.40
CC90463		0.22	<0.001	0.2	0.93	19	<10	80	0.7	<2	0.16	0.9	7	13	12	2.07
CC90464		0.24	<0.001	<0.2	0.55	16	<10	50	0.5	2	0.08	<0.5	2	5	7	1.63
CC90465		0.18	<0.001	0.6	0.56	5	<10	70	0.6	<2	0.09	1.3	4	5	11	1.02
CC90491		0.18	0.001	0.5	1.48	61	<10	70	1.2	<2	0.13	0.5	9	31	16	3.25
CC90492		0.14	0.007	0.2	1.45	448	<10	70	0.7	<2	0.15	<0.5	11	29	29	3.29
CC90493		0.22	0.005	<0.2	1.53	431	<10	80	0.8	<2	0.12	<0.5	12	28	23	3.29
CC90494		0.26	0.008	0.6	1.52	3490	<10	130	1.6	<2	0.06	<0.5	15	28	33	4.26
CC90495		0.24	0.002	<0.2	1.52	205	<10	100	0.7	<2	0.16	<0.5	8	30	20	2.79
CC90496		0.26	0.004	<0.2	1.48	123	<10	80	0.6	<2	0.20	<0.5	10	28	24	2.67
CC90497		0.24	0.004	0.2	1.64	112	<10	70	0.7	<2	0.09	<0.5	9	39	24	3.46
CC90498		0.22	0.002	<0.2	1.60	181	<10	70	0.6	<2	0.10	<0.5	9	34	27	3.25
CC90499		0.24	0.001	<0.2	1.77	396	<10	80	0.8	<2	0.12	<0.5	10	52	26	3.46
CC90500		0.20	0.003	0.2	1.38	190	<10	70	0.6	<2	0.06	<0.5	7	30	28	3.42
CC90001		0.26	0.002	0.3	1.22	102	<10	70	0.5	<2	0.16	<0.5	7	27	22	2.72
CC90002		0.28	0.002	0.5	1.58	39	<10	80	0.6	<2	0.47	<0.5	8	29	54	3.02
CC90003		0.22	0.007	<0.2	2.06	507	<10	130	0.7	3	0.20	<0.5	16	75	33	3.84
CC90004		0.20	0.002	<0.2	2.56	371	<10	160	1.0	<2	0.21	<0.5	17	73	27	4.13
CC90005		0.30	0.001	<0.2	2.22	124	<10	120	0.7	<2	0.29	<0.5	16	64	23	3.51
CC90006		0.30	0.004	<0.2	2.17	73	<10	90	0.8	<2	0.22	<0.5	17	67	32	3.85
CC90007		0.20	0.001	<0.2	1.37	43	<10	80	0.6	<2	0.22	<0.5	9	31	18	2.36
CC90008		0.32	0.002	<0.2	1.98	27	<10	80	0.5	<2	0.24	<0.5	14	81	24	2.88
CC90009		0.30	0.003	0.2	1.72	49	<10	80	0.6	<2	0.21	<0.5	12	56	26	3.09
CC90010		0.20	0.002	<0.2	1.95	23	<10	70	0.6	<2	0.16	<0.5	16	34	45	3.71
CC90011		0.24	0.001	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC90012		0.22	0.003	2.2	1.77	189	<10	120	0.7	<2	0.38	<0.5	15	35	31	3.68
CC90013		0.18	0.002	0.6	1.69	67	<10	110	0.6	<2	0.53	0.7	17	48	26	4.22
CC90014		0.24	0.001	0.6	1.63	44	<10	110	0.7	<2	0.37	<0.5	16	31	27	3.84
CC90015		0.22	0.002	0.3	1.77	76	<10	80	0.7	<2	0.17	<0.5	21	30	42	3.82



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CERTIFICATE OF ANALYSIS VA10091015

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC90451		<10	<1	0.07	10	0.06	136	2	0.01	4	290	13	0.02	<2	1	8
CC90452		<10	<1	0.07	<10	0.03	77	<1	0.02	2	430	5	0.03	<2	<1	8
CC90453		<10	<1	0.06	10	0.06	91	1	0.01	5	340	15	0.02	<2	1	5
CC90454		10	<1	0.14	40	0.33	980	1	0.01	20	460	38	0.02	<2	2	39
CC90455		10	<1	0.13	30	0.15	267	2	0.01	8	480	29	0.03	<2	1	18
CC90456		<10	<1	0.10	20	0.03	99	1	0.02	3	290	17	0.11	<2	<1	20
CC90457		10	<1	0.11	20	0.37	378	1	0.02	16	300	19	0.01	<2	2	24
CC90458		<10	<1	0.08	10	0.03	100	<1	0.02	2	480	7	0.02	<2	<1	9
CC90459		<10	<1	0.04	10	0.10	185	<1	0.02	4	260	12	0.01	<2	<1	15
CC90460		10	<1	0.10	20	0.33	724	1	0.01	19	680	27	0.01	<2	2	14
CC90461		<10	<1	0.07	10	0.06	151	1	0.01	5	390	12	0.01	<2	1	7
CC90462		10	<1	0.11	20	0.40	294	<1	0.02	24	320	25	0.02	<2	2	34
CC90463		<10	<1	0.12	10	0.20	414	1	0.02	15	520	19	0.03	<2	1	26
CC90464		<10	<1	0.07	10	0.05	101	1	0.02	5	410	17	0.04	<2	<1	17
CC90465		<10	<1	0.07	20	0.06	474	<1	0.02	5	470	16	0.03	<2	<1	14
CC90491		<10	<1	0.09	20	0.49	285	1	0.01	26	450	25	0.01	<2	2	15
CC90492		<10	<1	0.07	30	0.58	247	<1	0.01	32	680	12	0.02	<2	2	13
CC90493		<10	1	0.07	20	0.53	233	<1	0.01	31	510	11	0.02	<2	2	12
CC90494		<10	<1	0.12	40	0.56	322	1	0.01	38	480	19	0.04	<2	2	17
CC90495		<10	<1	0.08	20	0.53	212	1	0.01	28	690	12	0.02	<2	2	13
CC90496		<10	<1	0.07	30	0.62	241	<1	0.01	30	770	10	0.01	<2	2	14
CC90497		<10	<1	0.08	30	0.68	247	<1	0.01	29	530	16	0.02	<2	2	10
CC90498		<10	1	0.13	30	0.66	242	<1	0.01	28	540	23	0.02	<2	2	9
CC90499		10	<1	0.14	30	0.82	225	<1	0.01	34	550	13	0.02	<2	3	11
CC90500		<10	<1	0.07	30	0.51	181	1	0.01	23	530	16	0.03	<2	2	10
CC90001		<10	<1	0.06	20	0.43	225	1	<0.01	30	730	14	0.02	2	2	14
CC90002		<10	<1	0.08	40	0.64	152	<1	<0.01	30	800	39	0.04	<2	5	46
CC90003		<10	<1	0.26	10	1.25	513	1	0.01	35	750	6	0.05	3	3	14
CC90004		10	<1	0.32	20	1.42	550	1	0.01	36	890	6	0.05	<2	4	13
CC90005		10	<1	0.18	20	1.23	391	1	0.01	35	960	5	0.02	<2	4	16
CC90006		10	<1	0.13	10	1.17	356	1	<0.01	44	1040	9	0.04	<2	2	15
CC90007		<10	<1	0.08	10	0.69	283	1	<0.01	24	710	8	0.03	<2	2	16
CC90008		<10	<1	0.09	10	1.11	326	1	<0.01	47	750	8	0.02	3	3	15
CC90009		<10	<1	0.09	20	0.80	359	1	<0.01	37	870	15	0.02	<2	2	16
CC90010		<10	<1	0.14	20	1.05	429	1	<0.01	40	680	22	0.03	<2	3	19
CC90011		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC90012		<10	<1	0.11	30	0.85	803	<1	0.01	40	830	26	0.03	<2	4	42
CC90013		<10	<1	0.11	20	0.75	632	1	0.01	44	800	56	0.06	<2	4	53
CC90014		<10	<1	0.10	20	0.72	837	<1	0.01	39	470	41	0.03	<2	3	46
CC90015		<10	<1	0.07	20	0.72	637	<1	<0.01	43	730	48	0.02	<2	3	22



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CERTIFICATE OF ANALYSIS	VA10091015
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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Ti	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR	20	0.01	10	10	1	10	2	
CC90451	<20	0.01	<10	<10	12	<10	47	
CC90452	<20	0.01	<10	<10	10	<10	25	
CC90453	<20	0.01	<10	<10	15	<10	41	
CC90454	<20	0.02	<10	<10	26	10	85	
CC90455	<20	0.01	<10	<10	20	10	66	
CC90456	<20	0.01	<10	<10	9	<10	37	
CC90457	<20	0.02	<10	<10	30	<10	57	
CC90458	<20	0.01	<10	<10	10	<10	23	
CC90459	<20	0.02	<10	<10	13	<10	26	
CC90460	<20	0.01	<10	<10	25	10	118	
CC90461	<20	0.01	<10	<10	14	<10	45	
CC90462	<20	0.02	<10	<10	27	10	131	
CC90463	<20	0.02	<10	<10	19	<10	64	
CC90464	<20	0.01	<10	<10	12	<10	47	
CC90465	<20	0.01	<10	<10	14	<10	61	
CC90491	<20	0.02	<10	<10	32	10	92	
CC90492	<20	0.04	<10	<10	30	<10	74	
CC90493	<20	0.04	<10	<10	34	<10	68	
CC90494	<20	0.03	<10	<10	27	<10	82	
CC90495	<20	0.04	<10	<10	37	<10	66	
CC90496	<20	0.05	<10	<10	32	<10	66	
CC90497	<20	0.03	<10	<10	35	<10	75	
CC90498	<20	0.05	<10	<10	31	<10	75	
CC90499	<20	0.06	<10	<10	36	<10	71	
CC90500	<20	0.02	<10	<10	33	<10	65	
CC90001	<20	0.04	<10	<10	34	<10	67	
CC90002	<20	0.03	<10	<10	29	<10	136	
CC90003	<20	0.09	<10	<10	72	<10	63	
CC90004	<20	0.12	<10	<10	81	<10	76	
CC90005	<20	0.12	<10	<10	70	<10	65	
CC90006	<20	0.07	<10	<10	65	<10	66	
CC90007	<20	0.06	<10	<10	39	<10	52	
CC90008	<20	0.08	<10	<10	52	<10	56	
CC90009	<20	0.06	<10	<10	43	<10	65	
CC90010	<20	0.08	<10	<10	48	<10	82	
CC90011	NSS	NSS	NSS	NSS	NSS	NSS	NSS	
CC90012	<20	0.06	<10	<10	41	<10	98	
CC90013	<20	0.08	<10	<10	43	<10	115	
CC90014	<20	0.05	<10	<10	32	<10	103	
CC90015	<20	0.03	<10	<10	30	<10	159	



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC90016		0.22	0.002	0.3	1.35	35	<10	120	0.6	<2	0.30	<0.5	11	28	23	2.87
CC90017		0.20	<0.001	<0.2	1.58	37	<10	110	0.7	<2	0.21	<0.5	14	29	23	3.52
CC90018		0.20	0.001	0.2	1.31	331	<10	80	0.6	<2	0.15	<0.5	10	31	32	3.44
CC90019		0.26	0.002	<0.2	1.40	75	<10	70	0.5	<2	0.08	<0.5	6	24	30	3.26
CC90020		0.26	0.002	<0.2	1.57	49	<10	50	0.7	2	0.08	<0.5	7	30	29	3.73
CC90021		0.22	0.004	0.2	1.82	76	<10	80	1.0	<2	0.07	<0.5	8	29	36	4.25
CC90022		0.24	0.002	<0.2	2.10	34	<10	70	0.8	<2	0.09	<0.5	11	67	33	4.36
CC90023		0.22	0.002	0.3	1.47	31	<10	70	0.5	<2	0.12	<0.5	7	28	17	2.71
CC90024		0.28	0.003	0.3	1.61	82	<10	90	0.7	<2	0.20	<0.5	8	31	21	2.77
CC90025		0.20	0.003	0.2	0.87	295	<10	60	<0.5	<2	0.06	<0.5	5	28	20	2.67
CC90026		0.24	<0.001	0.2	0.53	29	<10	30	<0.5	<2	0.11	<0.5	3	14	16	0.77
CC90027		0.32	0.002	0.3	1.48	414	<10	70	0.8	<2	0.10	<0.5	11	32	26	2.98
CC90028		0.28	0.001	0.2	1.38	101	<10	50	0.5	<2	0.06	<0.5	8	23	30	3.63
CC90029		0.20	<0.001	<0.2	0.82	69	<10	40	<0.5	<2	0.07	<0.5	2	7	19	0.78
CC90030		0.24	0.001	<0.2	1.58	54	<10	50	0.5	<2	0.10	<0.5	10	67	33	3.22
CC90031		0.30	0.001	0.2	1.78	148	<10	60	1.0	<2	0.06	<0.5	12	25	44	4.27
CC90032		0.26	0.001	0.3	1.50	39	<10	50	1.0	<2	0.07	<0.5	16	20	45	4.07
CC90033		0.30	0.003	0.5	1.79	59	<10	70	0.8	<2	0.11	<0.5	9	33	39	3.68
CC90034		0.28	0.003	0.3	1.76	114	<10	80	0.8	<2	0.22	<0.5	15	44	43	3.97
CC90035		0.26	<0.001	<0.2	1.41	110	<10	50	0.5	<2	0.07	<0.5	7	27	26	3.19
CC90036		0.24	<0.001	0.2	0.54	43	<10	40	<0.5	<2	0.11	<0.5	4	7	14	1.19
CC90037		0.24	0.001	<0.2	0.81	28	<10	20	<0.5	<2	0.06	<0.5	4	11	19	1.43
CC90038		0.26	0.001	0.2	1.57	17	<10	70	0.5	<2	0.39	<0.5	11	29	26	3.37
CC90039		0.28	<0.001	<0.2	1.72	28	<10	90	0.6	<2	0.82	<0.5	11	35	27	3.42
CC90040		0.20	0.001	0.2	2.83	554	<10	340	1.3	<2	0.82	<0.5	27	87	44	6.37
CC90041		0.22	0.001	<0.2	2.81	345	<10	200	1.3	<2	0.49	<0.5	27	85	38	5.47
CC90042		0.22	0.015	0.4	2.71	3710	<10	310	1.4	3	0.49	0.9	44	92	43	6.11
CC90043		0.16	<0.001	<0.2	1.97	105	<10	160	0.5	<2	0.47	<0.5	22	81	15	3.73
CC90044		0.36	<0.001	0.4	2.14	86	<10	130	0.9	2	0.37	<0.5	15	79	28	3.59
CC90045		0.18	0.001	0.7	1.20	180	<10	180	<0.5	<2	0.19	<0.5	6	27	49	3.41
CC90046		0.20	0.001	0.4	1.88	226	<10	60	0.6	<2	0.14	<0.5	11	48	25	3.79
CC90047		0.26	0.002	0.2	1.74	47	<10	40	0.6	<2	0.12	<0.5	15	43	38	3.42
CC90048		0.20	0.001	<0.2	1.05	23	<10	20	<0.5	<2	0.06	<0.5	5	60	17	1.92
CC90049		0.28	0.001	0.2	1.58	81	<10	90	0.6	<2	1.05	<0.5	14	31	26	3.62
CC90050		0.40	0.001	0.9	1.84	52	<10	70	0.6	<2	0.90	1.9	19	36	39	5.05
CC90051		0.20	<0.001	<0.2	2.65	25	<10	100	1.5	3	1.08	0.5	32	67	56	4.55
CC90052		0.22	<0.001	0.2	1.84	17	<10	120	1.2	<2	0.55	0.5	22	54	34	3.53
CC90053		0.18	0.001	<0.2	1.43	136	<10	60	1.3	<2	0.64	0.8	21	33	32	4.13
CC90054		0.22	0.002	<0.2	2.10	89	<10	80	2.5	2	0.16	1.4	23	42	51	5.20
CC90055		0.22	<0.001	<0.2	1.00	28	<10	40	0.6	<2	0.07	<0.5	10	28	14	1.94



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC90016		<10	<1	0.05	20	0.51	407	<1	0.01	34	430	22	0.03	<2	3	34
CC90017		<10	<1	0.06	30	0.57	753	1	<0.01	33	840	22	0.03	<2	3	26
CC90018		<10	<1	0.06	30	0.46	225	1	<0.01	30	680	12	0.02	<2	3	15
CC90019		<10	<1	0.06	30	0.49	163	1	<0.01	18	500	11	0.02	<2	2	10
CC90020		<10	<1	0.06	40	0.55	185	1	<0.01	26	570	17	0.03	<2	2	11
CC90021		<10	<1	0.07	40	0.67	217	1	<0.01	27	550	23	0.03	<2	3	13
CC90022		<10	<1	0.09	30	0.86	225	1	0.01	35	690	15	0.04	<2	3	14
CC90023		<10	<1	0.06	20	0.52	212	1	<0.01	24	690	11	0.04	2	1	12
CC90024		<10	<1	0.06	20	0.63	217	1	<0.01	30	840	12	0.02	<2	2	14
CC90025		<10	<1	0.06	20	0.24	190	2	<0.01	19	540	13	0.05	<2	<1	9
CC90026		<10	<1	0.03	<10	0.07	69	<1	0.03	6	550	<2	0.04	<2	<1	14
CC90027		<10	<1	0.08	20	0.55	284	1	0.01	29	570	10	0.04	<2	2	14
CC90028		<10	<1	0.05	20	0.42	226	2	0.01	21	920	20	0.05	<2	1	12
CC90029		<10	<1	0.03	10	0.09	33	<1	0.02	6	890	3	0.07	<2	<1	12
CC90030		10	<1	0.08	20	0.74	202	1	0.01	34	840	13	0.06	<2	2	12
CC90031		<10	<1	0.07	50	0.63	301	1	0.01	32	630	18	0.05	<2	2	17
CC90032		<10	<1	0.10	70	0.53	350	1	<0.01	37	640	25	0.03	<2	3	23
CC90033		<10	<1	0.10	30	0.66	219	2	0.01	28	1200	29	0.04	<2	2	23
CC90034		<10	<1	0.14	40	0.69	375	1	0.01	35	910	24	0.04	<2	3	30
CC90035		10	<1	0.06	20	0.39	194	1	0.01	21	950	17	0.06	<2	1	12
CC90036		<10	<1	0.03	10	0.10	55	<1	0.02	8	680	5	0.04	<2	<1	13
CC90037		<10	<1	0.03	10	0.17	98	1	0.02	15	510	13	0.04	<2	1	7
CC90038		<10	<1	0.07	30	0.65	411	<1	0.01	37	510	23	0.03	2	4	38
CC90039		<10	<1	0.14	20	0.78	574	<1	0.01	41	800	19	0.08	<2	3	85
CC90040		10	<1	0.31	20	1.81	1110	1	0.02	44	1110	15	0.08	<2	11	37
CC90041		10	<1	0.34	20	1.86	1050	<1	0.01	50	1170	10	0.02	<2	10	22
CC90042		10	<1	0.23	20	1.81	1690	1	0.02	59	1160	46	0.03	4	11	25
CC90043		<10	<1	0.26	10	1.39	701	<1	0.02	42	1070	5	0.05	<2	3	22
CC90044		10	<1	0.16	20	1.30	483	<1	0.02	36	810	15	0.05	<2	6	21
CC90045		<10	<1	0.14	10	0.56	246	7	0.02	23	1170	7	0.12	<2	1	43
CC90046		10	<1	0.13	20	1.00	366	1	0.01	26	630	11	0.04	<2	3	11
CC90047		<10	<1	0.08	20	0.80	446	2	0.02	41	740	11	0.04	<2	2	13
CC90048		<10	<1	0.03	10	0.53	114	1	0.02	16	710	7	0.07	<2	1	6
CC90049		<10	1	0.10	30	0.78	701	1	0.02	35	830	24	0.04	<2	3	109
CC90050		10	<1	0.20	30	1.00	1095	<1	0.02	43	1120	710	0.06	2	5	73
CC90051		10	<1	0.26	40	1.12	930	1	0.02	55	920	28	0.08	<2	5	86
CC90052		10	<1	0.16	20	0.78	952	1	0.03	49	530	18	0.04	<2	3	50
CC90053		<10	<1	0.17	40	0.62	775	1	0.02	47	670	28	0.06	<2	3	59
CC90054		10	<1	0.18	30	0.77	1185	1	0.02	47	500	29	0.04	<2	6	26
CC90055		<10	1	0.08	10	0.33	208	1	0.03	26	250	11	0.02	<2	1	13



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC90016		<20	0.04	<10	<10	37	<10	75
CC90017		<20	0.04	<10	<10	33	<10	79
CC90018		<20	0.03	<10	<10	33	<10	64
CC90019		<20	0.03	<10	<10	28	<10	62
CC90020		<20	0.02	<10	<10	28	<10	74
CC90021		20	0.02	<10	<10	30	<10	83
CC90022		<20	0.05	<10	<10	50	<10	86
CC90023		<20	0.04	<10	<10	36	<10	62
CC90024		<20	0.04	<10	<10	34	<10	72
CC90025		<20	0.03	<10	<10	50	<10	62
CC90026		<20	0.02	<10	<10	17	<10	15
CC90027		<20	0.04	<10	<10	31	<10	65
CC90028		<20	0.02	<10	<10	30	<10	79
CC90029		<20	0.02	<10	<10	9	<10	16
CC90030		<20	0.04	<10	<10	43	<10	71
CC90031		20	0.02	<10	<10	23	<10	93
CC90032		20	0.01	<10	<10	19	<10	98
CC90033		<20	0.03	<10	<10	31	<10	105
CC90034		<20	0.04	<10	<10	33	<10	107
CC90035		<20	0.02	<10	<10	36	<10	65
CC90036		<20	0.02	<10	<10	21	<10	20
CC90037		<20	0.02	<10	<10	23	<10	35
CC90038		<20	0.04	<10	<10	32	<10	86
CC90039		<20	0.07	<10	<10	29	<10	80
CC90040		<20	0.13	<10	<10	117	<10	98
CC90041		<20	0.14	<10	<10	99	<10	92
CC90042		<20	0.07	<10	<10	91	<10	117
CC90043		<20	0.12	<10	<10	82	<10	71
CC90044		<20	0.08	<10	<10	65	<10	76
CC90045		<20	0.04	<10	<10	38	<10	78
CC90046		<20	0.10	<10	<10	68	<10	59
CC90047		<20	0.06	<10	<10	45	<10	72
CC90048		<20	0.04	<10	<10	48	<10	34
CC90049		<20	0.06	<10	<10	33	<10	88
CC90050		<20	0.07	<10	<10	33	<10	1340
CC90051		<20	0.09	<10	<10	64	<10	213
CC90052		<20	0.06	<10	<10	46	<10	105
CC90053		<20	0.03	<10	<10	28	<10	170
CC90054		<20	0.04	<10	<10	53	10	218
CC90055		<20	0.04	<10	<10	26	<10	57



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC90056		0.18	<0.001	<0.2	2.06	72	<10	50	1.6	3	0.48	<0.5	24	52	38	4.26
CC90057		0.20	<0.001	<0.2	1.33	18	<10	80	0.8	<2	0.05	<0.5	11	26	18	2.74
CC90058		0.20	0.004	0.2	2.22	17	<10	180	1.1	<2	0.58	<0.5	32	69	33	5.11
CC90059		0.18	0.001	<0.2	1.53	23	<10	110	0.6	<2	0.22	<0.5	15	35	16	3.18
CC90060		0.18	0.002	<0.2	2.26	58	<10	100	1.8	2	0.60	<0.5	18	44	29	3.94
CC90061		0.26	0.002	<0.2	2.54	35	<10	90	1.8	<2	0.38	<0.5	20	41	25	4.37
CC90062		0.26	0.001	<0.2	2.66	36	<10	70	2.1	<2	0.22	0.5	15	41	20	4.87
CC90063		0.24	0.001	<0.2	2.01	131	<10	110	1.6	<2	0.16	<0.5	17	34	19	4.34
CC90064		0.20	0.001	<0.2	1.61	8	<10	50	0.7	<2	0.37	0.8	13	27	19	3.39
CC90065		0.22	0.005	<0.2	1.39	73	<10	70	1.3	2	0.27	1.7	13	34	19	3.40
CC90066		0.16	<0.001	<0.2	3.44	20	<10	120	1.4	<2	0.53	2.2	25	57	16	5.17
CC90067		0.28	0.005	0.9	1.74	848	<10	110	1.4	<2	0.32	0.6	16	37	33	4.13
CC90068		0.20	NSS	0.7	1.37	141	<10	80	0.5	<2	0.15	0.6	10	36	23	3.53
CC90069		0.20	0.003	0.3	1.36	89	<10	120	0.5	<2	0.44	0.7	14	29	24	3.01
CC90070		0.28	0.005	0.2	1.40	44	<10	50	0.5	<2	0.13	<0.5	7	29	16	2.88
CC90071		0.24	0.002	<0.2	1.26	39	<10	50	0.6	<2	0.12	<0.5	12	32	26	3.18
CC90072		0.28	0.001	<0.2	1.35	57	<10	40	<0.5	2	0.08	<0.5	12	29	26	3.76
CC90073		0.28	0.002	0.2	1.33	119	<10	80	0.5	<2	0.23	<0.5	9	31	15	3.12
CC90074		0.20	0.004	0.3	1.15	88	<10	80	0.6	<2	1.86	<0.5	8	26	22	2.26
CC90075		0.24	0.003	0.3	1.18	93	<10	110	0.5	<2	1.10	<0.5	8	30	25	2.62
CC90076		0.24	0.003	0.3	0.81	122	<10	60	<0.5	<2	0.08	<0.5	7	30	20	2.54
CC90077		0.24	0.004	0.3	1.51	171	<10	70	0.7	2	0.12	<0.5	11	37	24	3.38
CC90078		0.20	0.003	0.2	1.38	242	<10	50	0.5	2	0.06	<0.5	7	34	156	3.68
CC90079		0.20	0.003	0.3	1.32	132	<10	60	0.5	<2	0.05	<0.5	8	29	25	3.35
CC90080		0.20	0.010	0.3	1.65	199	<10	90	0.6	2	0.11	<0.5	9	33	25	3.73
CC90081		0.26	0.005	0.3	1.75	528	<10	100	0.9	2	0.11	<0.5	18	33	33	4.00
CC90082		0.30	0.003	<0.2	1.60	573	<10	60	0.9	<2	0.08	<0.5	13	26	35	3.97
CC90083		0.24	0.005	0.3	1.42	406	<10	60	0.6	<2	0.16	<0.5	10	30	24	3.31
CC90084		0.18	0.002	<0.2	0.64	38	<10	30	<0.5	<2	0.16	<0.5	1	3	4	0.40
CC90085		0.24	0.003	0.3	1.92	853	<10	90	1.1	2	0.23	<0.5	16	35	38	4.01
CC90086		0.24	0.002	0.3	1.55	235	<10	120	0.5	2	0.18	0.5	10	27	17	3.24
CC90087		0.24	0.003	<0.2	2.12	337	<10	80	1.2	2	0.16	<0.5	12	32	19	3.68
CC90088		0.20	0.001	<0.2	2.25	108	<10	100	1.4	2	0.28	<0.5	16	35	23	4.13
CC90089		0.28	0.001	<0.2	2.30	288	<10	80	1.4	<2	0.29	<0.5	17	37	30	3.79
CC90090		0.28	0.003	<0.2	1.60	17	<10	80	0.7	<2	0.21	<0.5	11	28	22	2.67
CC90091		0.20	0.002	<0.2	1.30	45	<10	90	0.5	<2	0.21	<0.5	9	21	15	2.90
CC90092		0.28	0.004	<0.2	1.80	14	<10	110	0.8	<2	0.53	<0.5	12	35	25	3.32
CC90093		0.30	0.003	<0.2	2.06	16	<10	120	1.0	<2	0.47	<0.5	12	33	37	3.20
CC90094		0.24	0.032	<0.2	2.31	28	<10	110	1.2	<2	0.29	<0.5	16	32	28	3.41
CC90095		0.26	0.002	<0.2	2.48	20	<10	90	1.3	<2	0.36	<0.5	22	42	34	3.90



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CERTIFICATE OF ANALYSIS VA10091015

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC90056		10	<1	0.16	40	0.85	687	1	0.02	56	620	31	0.04	<2	3	34
CC90057		<10	<1	0.10	10	0.30	941	<1	0.02	19	420	14	0.02	<2	1	10
CC90058		10	<1	0.37	20	0.95	1730	<1	0.03	60	760	16	0.04	<2	5	51
CC90059		<10	<1	0.27	10	0.69	722	1	0.03	22	480	13	0.03	<2	2	20
CC90060		10	<1	0.24	30	0.82	769	1	0.03	45	720	28	0.06	<2	3	71
CC90061		10	<1	0.30	30	0.76	859	<1	0.04	42	380	38	0.02	<2	4	65
CC90062		10	<1	0.12	20	0.67	522	<1	0.02	31	320	28	0.02	<2	4	32
CC90063		10	<1	0.19	20	0.65	974	<1	0.02	31	530	40	0.02	<2	3	26
CC90064		10	1	0.17	10	0.46	445	<1	0.05	21	330	21	0.03	<2	3	54
CC90065		<10	<1	0.16	20	0.45	561	<1	0.01	37	430	34	0.01	<2	2	36
CC90066		10	1	0.42	20	1.04	1300	<1	0.06	39	560	25	0.02	<2	6	142
CC90067		<10	<1	0.10	60	0.67	802	<1	<0.01	57	670	23	0.02	<2	6	33
CC90068		10	1	0.09	20	0.58	373	<1	0.01	28	680	18	0.03	<2	2	15
CC90069		10	<1	0.11	20	0.58	557	<1	0.01	26	1330	13	0.08	2	2	46
CC90070		<10	<1	0.06	20	0.45	199	1	0.01	23	510	13	0.02	<2	2	11
CC90071		<10	<1	0.09	30	0.55	383	1	0.01	29	800	17	0.04	<2	1	14
CC90072		10	<1	0.10	20	0.59	370	2	0.01	33	590	29	0.03	2	1	13
CC90073		<10	<1	0.07	20	0.54	344	1	0.01	25	680	22	0.04	<2	1	22
CC90074		<10	<1	0.06	20	0.41	459	1	0.01	25	1190	30	0.15	<2	1	147
CC90075		<10	<1	0.06	20	0.44	426	1	0.01	27	1120	17	0.12	<2	2	95
CC90076		<10	<1	0.09	20	0.27	282	3	0.01	24	710	14	0.06	<2	1	11
CC90077		<10	<1	0.09	30	0.62	345	1	<0.01	29	660	23	0.02	<2	2	11
CC90078		10	<1	0.14	20	0.55	185	<1	<0.01	21	590	17	0.03	<2	2	7
CC90079		10	<1	0.10	30	0.53	230	<1	<0.01	23	530	31	0.04	<2	1	7
CC90080		<10	<1	0.10	20	0.59	266	1	0.01	28	650	20	0.03	<2	3	11
CC90081		10	<1	0.09	30	0.65	442	<1	0.01	44	610	20	0.03	<2	3	12
CC90082		10	<1	0.09	40	0.57	218	<1	0.01	36	510	16	0.03	<2	3	8
CC90083		<10	<1	0.10	30	0.60	232	<1	0.01	29	670	14	0.04	<2	2	13
CC90084		<10	<1	0.02	<10	0.04	121	1	0.03	1	420	4	0.05	<2	<1	14
CC90085		<10	<1	0.10	30	0.96	466	1	0.01	39	900	10	0.02	<2	4	22
CC90086		10	<1	0.07	20	0.56	149	1	0.01	23	790	12	0.04	<2	2	15
CC90087		<10	1	0.10	30	0.60	356	<1	0.01	28	790	13	0.05	<2	2	14
CC90088		10	<1	0.09	30	0.75	929	<1	0.01	37	870	19	0.04	<2	3	37
CC90089		10	<1	0.16	20	0.88	443	1	0.02	46	560	26	0.03	<2	3	38
CC90090		<10	<1	0.09	30	0.64	292	<1	0.01	31	560	10	0.01	<2	3	15
CC90091		10	<1	0.09	20	0.36	573	2	0.01	17	620	18	0.04	<2	1	17
CC90092		10	<1	0.10	30	0.77	525	<1	0.02	34	950	16	<0.01	<2	5	64
CC90093		<10	<1	0.07	20	0.69	355	<1	0.01	34	930	21	0.02	<2	4	46
CC90094		10	<1	0.07	20	0.71	467	<1	0.02	39	700	138	0.01	<2	4	38
CC90095		10	<1	0.11	20	1.02	467	<1	0.03	55	610	18	0.01	<2	4	53



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		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC90056		<20	0.02	<10	<10	44	<10	116
CC90057		<20	0.03	<10	<10	38	<10	68
CC90058		<20	0.09	<10	<10	61	<10	135
CC90059		<20	0.10	<10	<10	55	<10	119
CC90060		<20	0.06	<10	<10	41	<10	117
CC90061		<20	0.07	<10	<10	38	<10	144
CC90062		<20	0.03	<10	<10	46	10	134
CC90063		<20	0.04	<10	<10	35	<10	155
CC90064		<20	0.07	<10	<10	29	<10	109
CC90065		<20	0.03	<10	<10	27	<10	202
CC90066		<20	0.18	<10	<10	52	<10	252
CC90067		<20	0.03	<10	<10	35	<10	98
CC90068		<20	0.06	<10	<10	47	<10	73
CC90069		<20	0.04	<10	<10	44	<10	91
CC90070		<20	0.05	<10	<10	37	<10	60
CC90071		<20	0.03	<10	<10	36	<10	69
CC90072		<20	0.03	<10	<10	35	<10	106
CC90073		<20	0.03	<10	<10	38	<10	85
CC90074		<20	0.02	<10	<10	23	<10	75
CC90075		<20	0.02	<10	<10	27	<10	78
CC90076		<20	0.01	<10	<10	40	<10	83
CC90077		<20	0.04	<10	<10	38	<10	80
CC90078		<20	0.06	<10	<10	40	<10	64
CC90079		<20	0.04	<10	<10	32	<10	78
CC90080		<20	0.05	<10	<10	43	<10	81
CC90081		<20	0.04	<10	<10	38	<10	103
CC90082		20	0.03	<10	<10	33	<10	82
CC90083		<20	0.05	<10	<10	37	<10	79
CC90084		<20	0.02	<10	<10	6	<10	5
CC90085		<20	0.03	<10	<10	48	<10	99
CC90086		<20	0.04	<10	<10	50	<10	69
CC90087		<20	0.04	<10	<10	36	<10	76
CC90088		<20	0.03	<10	<10	40	10	100
CC90089		<20	0.07	<10	<10	36	10	93
CC90090		<20	0.06	<10	<10	35	<10	67
CC90091		<20	0.04	<10	<10	40	<10	60
CC90092		<20	0.07	<10	<10	41	<10	82
CC90093		<20	0.05	<10	<10	48	<10	81
CC90094		<20	0.06	<10	<10	38	<10	128
CC90095		<20	0.08	<10	<10	39	<10	102



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC90096		0.22	0.002	<0.2	2.75	78	<10	130	1.2	<2	0.32	<0.5	18	45	28	3.94
CC90097		0.30	0.004	<0.2	2.25	59	<10	70	0.9	<2	0.16	<0.5	12	50	27	3.94
CC90101		0.28	0.002	<0.2	1.38	36	<10	60	<0.5	<2	7.8	<0.5	20	27	40	4.33
CC90102		0.22	0.023	0.3	1.67	870	<10	40	1.3	6	0.28	<0.5	48	19	92	5.72
CC90103		0.20	0.009	0.6	1.28	1545	<10	80	1.0	2	0.34	<0.5	22	21	55	4.97
CC90104		0.26	0.002	<0.2	1.65	446	<10	70	0.8	<2	0.10	<0.5	16	55	46	4.52
CC90105		0.18	0.001	<0.2	1.01	58	<10	50	<0.5	<2	0.06	<0.5	3	16	15	1.87
CC90106		0.16	0.001	<0.2	1.29	172	<10	30	0.5	<2	0.04	<0.5	5	30	32	2.75
CC90107		0.20	0.002	<0.2	0.98	41	<10	70	0.5	<2	0.08	<0.5	4	17	18	1.88
CC90108		0.24	0.004	<0.2	1.90	37	<10	90	0.9	<2	0.15	<0.5	16	56	30	3.68
CC90109		0.30	0.004	<0.2	1.68	77	<10	50	0.7	<2	0.08	<0.5	11	41	34	3.28
CC90110		0.26	0.003	<0.2	1.92	367	<10	70	0.8	<2	0.09	<0.5	10	40	39	4.19
CC90111		0.24	0.003	<0.2	1.60	136	<10	60	0.9	<2	0.08	<0.5	15	36	37	3.93
CC90112		0.22	0.002	<0.2	1.87	329	<10	70	1.0	<2	0.08	<0.5	18	56	36	4.03
CC90113		0.22	<0.001	<0.2	0.44	32	<10	20	<0.5	<2	0.07	<0.5	1	5	3	0.76
CC90114		0.34	0.003	<0.2	1.61	332	<10	60	0.8	<2	0.14	<0.5	9	33	23	2.80
CC90115		0.24	0.004	<0.2	2.17	430	<10	100	1.7	<2	0.28	<0.5	23	38	38	4.80
CC90116		0.20	0.002	<0.2	2.11	252	<10	100	1.1	<2	0.27	<0.5	14	35	20	4.05
CC90117		0.24	0.005	<0.2	2.77	768	<10	110	1.5	2	0.26	0.6	30	40	98	5.51
CC90118		0.22	0.006	<0.2	2.07	365	<10	80	1.0	<2	0.26	<0.5	13	38	27	3.93
CC90119		0.20	<0.001	<0.2	1.19	83	<10	60	<0.5	<2	0.08	<0.5	9	19	23	2.61
CC90120		0.20	0.011	0.2	2.15	291	<10	60	0.7	<2	0.24	<0.5	15	32	41	4.75
CC90121		0.20	<0.001	<0.2	2.34	308	<10	80	1.0	<2	0.24	<0.5	25	36	45	4.65
CC90122		0.26	<0.001	<0.2	2.90	79	<10	80	1.2	<2	0.34	<0.5	22	44	38	4.34
CC90123		0.22	0.003	<0.2	2.30	304	<10	70	1.2	<2	0.50	<0.5	15	38	37	3.57
CC90124		0.26	0.002	<0.2	2.58	61	<10	70	1.2	<2	0.27	<0.5	14	38	27	3.58
CC90125		0.28	0.006	<0.2	2.29	104	<10	90	1.1	<2	0.37	<0.5	12	34	24	3.33
CC90126		0.16	0.001	<0.2	2.33	74	<10	90	1.2	<2	0.45	<0.5	14	34	28	3.42
CC90127		0.28	0.002	<0.2	2.40	28	<10	90	0.9	<2	0.30	<0.5	9	33	16	2.91
CC90128		0.26	0.003	<0.2	2.14	20	<10	70	0.9	<2	0.41	<0.5	13	35	27	2.93
CC90129		0.22	0.003	<0.2	2.94	83	<10	90	1.2	<2	0.41	<0.5	20	44	29	3.95
CC90130		0.22	0.002	<0.2	2.60	20	<10	80	1.0	<2	0.42	<0.5	16	42	18	3.76
CC90131		0.20	0.001	<0.2	0.45	7	<10	20	<0.5	<2	0.11	<0.5	2	3	9	0.60
CC90132		0.20	0.002	0.2	1.14	25	<10	30	0.5	<2	0.15	<0.5	10	14	13	1.82
CC90133		0.26	0.007	<0.2	2.67	224	<10	90	1.3	<2	0.26	<0.5	47	43	103	5.38
CC90134		0.20	0.002	<0.2	1.30	65	<10	50	0.5	<2	0.12	<0.5	8	18	20	2.26
CC90135		0.28	<0.001	<0.2	1.91	294	<10	70	0.8	<2	0.27	<0.5	18	31	31	3.47
CC90359		0.18	0.002	<0.2	1.76	35	<10	40	0.7	<2	0.16	<0.5	7	23	13	2.24
CC90360		0.22	0.003	<0.2	2.17	69	<10	80	1.1	<2	0.42	<0.5	13	32	21	3.19
CC90361		0.22	0.002	<0.2	2.85	75	<10	70	1.3	<2	0.33	<0.5	13	39	18	3.36



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC90096		10	1	0.19	20	1.13	443	<1	0.02	40	700	13	0.03	<2	4	41
CC90097		10	1	0.10	20	0.74	229	1	0.01	34	700	12	0.03	<2	3	19
CC90101		<10	1	0.11	20	0.76	1170	<1	0.01	43	1060	44	0.07	<2	4	519
CC90102		<10	<1	0.09	70	0.70	2090	<1	0.01	86	690	39	0.06	<2	6	54
CC90103		<10	1	0.08	40	0.43	1290	<1	0.01	50	940	48	0.06	<2	6	45
CC90104		10	<1	0.10	30	0.67	500	1	0.01	46	700	19	0.04	<2	3	18
CC90105		<10	<1	0.05	20	0.23	121	<1	0.01	11	610	8	0.04	<2	<1	7
CC90106		<10	1	0.05	20	0.32	151	<1	0.02	19	640	15	0.04	<2	1	7
CC90107		<10	<1	0.05	20	0.30	105	<1	0.02	13	680	11	0.06	<2	<1	12
CC90108		10	<1	0.10	30	0.83	380	1	0.01	37	730	18	0.01	<2	4	12
CC90109		<10	<1	0.09	30	0.63	252	1	0.01	31	850	19	0.04	<2	2	13
CC90110		<10	<1	0.15	30	0.78	241	1	0.01	25	800	17	0.05	<2	3	22
CC90111		<10	<1	0.08	30	0.59	349	1	0.01	37	800	19	0.04	<2	2	12
CC90112		10	<1	0.10	50	0.76	323	<1	0.01	50	610	16	0.02	<2	3	13
CC90113		<10	<1	0.03	10	0.07	44	<1	0.03	3	390	4	0.02	<2	<1	8
CC90114		<10	<1	0.08	30	0.56	214	1	0.01	26	890	12	0.02	<2	2	11
CC90115		10	<1	0.13	70	0.87	774	<1	0.01	55	670	19	0.02	<2	5	31
CC90116		10	<1	0.08	30	0.80	648	<1	0.02	35	870	25	0.04	<2	3	30
CC90117		10	1	0.12	30	1.62	567	<1	0.01	50	760	15	0.01	<2	6	14
CC90118		10	1	0.10	30	0.85	310	1	0.01	35	650	17	0.04	<2	2	27
CC90119		<10	1	0.05	20	0.39	152	1	0.01	21	470	10	0.03	<2	1	10
CC90120		10	<1	0.08	20	0.88	157	1	0.01	35	680	32	0.03	<2	3	21
CC90121		10	1	0.10	30	1.00	466	<1	0.01	42	800	12	0.03	<2	2	25
CC90122		10	1	0.14	20	1.19	478	<1	0.02	52	610	13	0.03	<2	3	40
CC90123		10	<1	0.12	30	0.88	447	<1	0.02	42	700	20	0.03	<2	3	55
CC90124		10	<1	0.10	20	0.89	426	<1	0.02	36	900	17	0.05	<2	3	37
CC90125		10	<1	0.09	20	0.68	384	1	0.01	32	810	17	0.02	<2	2	36
CC90126		10	<1	0.11	20	0.81	529	<1	0.03	35	700	14	0.06	<2	3	60
CC90127		10	<1	0.06	20	0.59	261	<1	0.01	22	820	15	0.02	<2	2	32
CC90128		10	<1	0.09	20	0.73	353	1	0.03	34	610	13	0.03	<2	3	53
CC90129		10	1	0.13	20	1.15	388	1	0.03	44	610	18	0.03	<2	3	50
CC90130		10	<1	0.08	10	1.10	401	1	0.03	34	810	13	0.06	<2	2	49
CC90131		<10	<1	0.02	<10	0.07	42	<1	0.03	2	410	3	0.01	<2	<1	10
CC90132		<10	<1	0.07	10	0.33	201	<1	0.03	18	480	10	0.03	<2	1	18
CC90133		10	<1	0.26	40	1.24	458	<1	0.02	81	950	31	0.05	<2	4	33
CC90134		<10	1	0.06	20	0.35	101	1	0.02	16	650	7	0.05	<2	1	15
CC90135		10	<1	0.09	20	0.84	193	1	0.01	35	710	11	0.02	<2	2	24
CC90359		<10	<1	0.05	10	0.41	181	1	0.02	18	710	12	0.04	<2	1	19
CC90360		10	<1	0.07	20	0.65	415	1	0.03	30	780	14	0.04	<2	2	50
CC90361		10	1	0.13	10	0.74	327	1	0.03	30	930	16	0.03	<2	2	42



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CERTIFICATE OF ANALYSIS	VA10091015
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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
LOR		20	0.01	10	10	1	10
CC90096		<20	0.09	<10	<10	45	<10
CC90097		<20	0.04	<10	<10	50	<10
CC90101		<20	0.05	<10	<10	22	<10
CC90102		20	0.01	<10	<10	17	<10
CC90103		<20	0.01	<10	<10	21	<10
CC90104		<20	0.03	<10	<10	31	<10
CC90105		<20	0.02	<10	<10	20	<10
CC90106		<20	0.02	<10	<10	21	<10
CC90107		<20	0.01	<10	<10	18	<10
CC90108		<20	0.05	<10	<10	59	<10
CC90109		<20	0.03	<10	<10	35	<10
CC90110		<20	0.04	<10	<10	35	<10
CC90111		<20	0.02	<10	<10	29	<10
CC90112		<20	0.03	<10	<10	34	<10
CC90113		<20	0.02	<10	<10	14	<10
CC90114		<20	0.03	<10	<10	33	<10
CC90115		<20	0.03	<10	<10	34	<10
CC90116		<20	0.03	<10	<10	39	<10
CC90117		<20	0.07	<10	<10	86	10
CC90118		<20	0.04	<10	<10	46	<10
CC90119		<20	0.02	<10	<10	33	<10
CC90120		<20	0.03	<10	<10	48	<10
CC90121		<20	0.03	<10	<10	46	10
CC90122		<20	0.08	<10	<10	46	<10
CC90123		<20	0.06	<10	<10	38	<10
CC90124		<20	0.06	<10	<10	39	<10
CC90125		<20	0.05	<10	<10	39	<10
CC90126		<20	0.06	<10	<10	34	<10
CC90127		<20	0.05	<10	<10	39	<10
CC90128		<20	0.06	<10	<10	34	<10
CC90129		<20	0.09	<10	<10	42	<10
CC90130		<20	0.07	<10	<10	41	<10
CC90131		<20	0.03	<10	<10	13	<10
CC90132		<20	0.04	<10	<10	19	<10
CC90133		20	0.08	<10	<10	49	<10
CC90134		<20	0.02	<10	<10	27	10
CC90135		<20	0.05	<10	<10	39	<10
CC90359		<20	0.03	<10	<10	25	<10
CC90360		<20	0.05	<10	<10	36	10
CC90361		<20	0.06	<10	<10	37	<10



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC90362		0.20	0.003	<0.2	1.87	103	<10	70	0.9	<2	0.28	<0.5	14	33	21	2.91
CC90363		0.24	0.001	<0.2	1.38	45	<10	40	<0.5	2	0.09	<0.5	5	16	14	1.94
CC90364		0.28	0.009	<0.2	2.73	85	<10	70	1.2	<2	0.25	<0.5	35	56	56	4.89
CC90365		0.16	0.005	<0.2	2.93	85	<10	70	1.2	<2	0.88	<0.5	25	44	41	5.01
CC90366		0.24	0.010	0.2	1.86	190	<10	60	0.9	2	0.15	<0.5	24	30	96	3.92
CC90367		0.20	0.003	0.2	2.07	330	<10	40	1.0	2	0.11	<0.5	25	29	39	5.02
CC90368		0.28	0.014	0.2	1.85	4450	<10	40	1.3	2	0.20	<0.5	23	24	43	5.39
CC90369		0.24	0.007	0.2	1.60	535	<10	70	1.6	3	0.30	0.7	14	26	49	3.67
CC90370		0.22	0.002	0.5	1.19	99	<10	50	1.2	<2	0.07	<0.5	6	19	45	4.20
CC90371		0.24	0.002	<0.2	1.77	304	<10	80	1.4	2	0.39	0.6	13	41	22	3.54
CC90372		0.20	0.003	0.2	1.76	891	<10	50	1.3	<2	0.44	<0.5	17	31	31	4.28
CC90373		0.16	0.003	0.6	1.19	590	<10	70	0.7	2	0.63	<0.5	5	12	21	1.54
CC90374		0.30	0.003	0.4	1.55	693	<10	50	0.8	6	0.15	0.5	9	36	26	3.07
CC90375		0.20	0.003	0.2	1.02	1125	<10	50	0.5	9	0.19	<0.5	8	47	19	2.63
CC90376		0.14	0.001	0.2	1.48	110	<10	70	0.5	<2	0.11	0.5	9	75	29	3.02
CC90377		0.22	0.005	0.3	2.09	183	<10	70	1.1	<2	0.12	<0.5	25	57	47	4.55
CC90378		0.24	0.002	<0.2	1.87	274	<10	70	0.7	<2	0.31	<0.5	11	46	29	3.60
CC90379		0.22	0.001	0.2	0.23	6	<10	10	<0.5	2	0.03	<0.5	1	3	2	0.34
CC90380		0.24	0.007	<0.2	2.19	133	<10	60	0.9	<2	0.11	<0.5	17	71	40	4.47
CC90381		0.18	0.001	<0.2	0.81	353	<10	70	<0.5	2	0.11	<0.5	8	11	23	2.50
CC90382		0.20	0.001	0.3	0.69	118	<10	50	<0.5	2	0.55	<0.5	4	8	14	1.23
CC90383		0.18	0.001	0.2	0.97	389	<10	40	<0.5	<2	0.05	<0.5	10	28	32	3.57
CC90384		0.22	<0.001	0.2	1.63	124	<10	40	0.6	<2	0.11	<0.5	14	30	22	3.34
CC90385		0.18	0.007	0.6	1.48	103	<10	40	0.9	2	0.12	<0.5	12	28	32	3.53
CC90386		0.20	0.002	0.7	2.27	324	<10	50	0.7	3	0.17	0.6	17	64	34	5.49
CC90387		0.22	0.004	0.3	0.99	58	<10	30	<0.5	2	0.07	<0.5	4	17	15	1.62
CC90388		0.18	<0.001	0.7	1.98	138	<10	80	1.5	3	1.22	1.7	13	32	35	3.57
CC90389		0.28	0.002	0.2	2.29	78	<10	70	0.9	2	0.61	<0.5	13	37	20	3.11
CC90390		0.22	0.004	0.7	2.75	153	<10	60	1.9	2	0.60	1.4	22	49	49	4.71
CC90391		0.18	0.008	0.5	2.80	142	<10	70	1.8	<2	0.76	1.4	21	46	39	4.55
CC90392		0.28	0.001	0.2	1.71	15	<10	60	1.1	2	1.17	0.5	13	55	39	2.86
CC90393		0.22	0.002	<0.2	1.28	14	<10	70	0.9	<2	0.34	<0.5	8	22	18	2.14
CC90394		0.22	0.001	<0.2	2.10	33	<10	90	1.6	<2	0.59	<0.5	21	69	76	3.66
CC90395		0.22	0.001	0.3	1.82	33	<10	110	1.3	2	0.81	<0.5	20	43	34	3.35
CC90396		0.16	<0.001	<0.2	0.32	2	<10	20	<0.5	<2	0.15	0.5	3	3	12	0.46
CC90397		0.24	0.002	<0.2	2.01	91	<10	60	1.6	2	0.67	<0.5	23	37	32	4.81
CC90398		0.16	0.005	0.2	1.49	164	<10	80	1.6	3	0.87	<0.5	17	26	30	4.02
CC90399		0.16	0.005	<0.2	1.33	147	<10	80	1.1	4	0.68	0.6	10	17	22	2.59
CC90400		0.16	0.004	<0.2	1.87	144	<10	80	1.4	4	0.54	0.5	18	33	26	4.30
CC90157		0.36	0.002	<0.2	2.05	58	<10	80	0.7	2	0.33	<0.5	16	33	28	3.56



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC90362		10	<1	0.09	10	0.72	526	1	0.03	33	680	13	0.03	<2	2	32
CC90363		<10	<1	0.05	10	0.31	97	1	0.02	12	720	9	0.05	<2	1	12
CC90364		10	<1	0.15	40	1.32	488	1	0.02	69	740	15	0.02	<2	5	23
CC90365		10	<1	0.14	30	1.27	539	<1	0.07	52	840	24	0.06	<2	5	120
CC90366		<10	1	0.09	30	0.73	244	1	0.02	59	970	15	0.04	<2	2	14
CC90367		10	<1	0.07	30	1.04	313	1	0.02	46	1110	10	0.06	<2	3	10
CC90368		10	<1	0.13	50	1.02	298	<1	0.02	42	1020	5	0.07	<2	4	27
CC90369		<10	<1	0.11	30	0.76	488	1	0.02	32	880	113	0.03	<2	3	32
CC90370		<10	<1	0.12	30	0.28	216	3	0.02	12	790	242	0.16	<2	2	26
CC90371		<10	<1	0.07	20	0.68	605	1	0.02	31	1060	67	0.05	<2	2	37
CC90372		<10	<1	0.09	40	0.82	597	1	0.02	41	890	27	0.04	<2	4	58
CC90373		<10	<1	0.04	20	0.18	538	1	0.03	11	1260	58	0.10	<2	1	70
CC90374		<10	<1	0.07	20	0.54	234	1	0.01	25	800	111	0.04	<2	1	15
CC90375		<10	<1	0.06	10	0.44	208	1	0.02	29	700	15	0.06	<2	1	21
CC90376		10	<1	0.11	40	0.65	217	1	0.02	34	760	13	0.07	<2	1	20
CC90377		10	<1	0.19	40	0.84	544	1	0.02	55	760	19	0.06	<2	3	20
CC90378		10	<1	0.09	30	0.81	218	1	0.02	30	620	14	0.05	<2	2	40
CC90379		<10	<1	0.02	<10	0.02	12	<1	0.03	1	240	2	0.02	<2	<1	6
CC90380		10	<1	0.14	30	0.97	364	1	0.02	42	640	19	0.04	<2	3	14
CC90381		10	<1	0.05	30	0.15	146	2	0.01	21	380	11	0.03	<2	1	20
CC90382		<10	<1	0.03	20	0.13	147	1	0.03	7	790	6	0.08	<2	1	56
CC90383		10	<1	0.06	20	0.30	243	2	0.01	29	680	27	0.05	<2	1	14
CC90384		<10	<1	0.08	20	0.55	725	1	0.02	29	830	22	0.04	<2	1	20
CC90385		<10	<1	0.08	20	0.52	345	1	0.01	32	940	21	0.06	<2	1	15
CC90386		10	<1	0.11	20	1.01	624	1	0.02	53	1070	29	0.07	<2	2	23
CC90387		<10	<1	0.04	10	0.24	177	2	0.02	15	770	17	0.06	<2	<1	10
CC90388		10	<1	0.07	30	0.60	685	1	0.02	29	1010	26	0.09	<2	2	89
CC90389		10	<1	0.06	20	0.77	355	<1	0.04	30	710	14	0.04	<2	3	90
CC90390		10	<1	0.15	40	1.20	863	1	0.06	50	830	49	0.03	<2	6	96
CC90391		10	<1	0.11	30	1.15	786	<1	0.08	47	740	44	0.02	<2	6	119
CC90392		10	<1	0.10	20	0.72	338	1	0.02	37	710	16	0.06	<2	3	101
CC90393		<10	<1	0.07	10	0.35	243	1	0.02	17	440	17	0.02	<2	2	33
CC90394		10	<1	0.21	30	0.93	595	1	0.02	48	600	37	0.05	<2	5	39
CC90395		10	<1	0.14	40	0.54	959	1	0.03	37	800	25	0.06	<2	2	55
CC90396		<10	<1	0.04	<10	0.05	267	<1	0.04	5	160	3	0.01	<2	<1	14
CC90397		10	<1	0.27	30	0.79	763	1	0.05	46	450	22	0.05	<2	4	114
CC90398		<10	1	0.16	40	0.53	710	1	0.03	36	780	22	0.09	<2	3	82
CC90399		<10	<1	0.11	20	0.32	371	<1	0.04	22	430	12	0.05	<2	1	77
CC90400		10	<1	0.18	30	0.69	577	<1	0.04	37	350	26	0.03	<2	4	83
CC90157		10	<1	0.11	20	0.85	216	1	0.02	35	550	11	0.02	<2	3	35



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Ti	U	V	W	Zn
	Units LOR	ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC90362		<20	0.06	<10	<10	32	<10	92
CC90363		<20	0.03	<10	<10	27	<10	39
CC90364		<20	0.05	<10	<10	51	<10	122
CC90365		<20	0.09	<10	<10	39	<10	156
CC90366		<20	0.03	<10	<10	32	<10	102
CC90367		<20	0.01	<10	<10	35	<10	100
CC90368		<20	0.01	<10	<10	26	<10	91
CC90369		<20	0.03	<10	<10	28	30	149
CC90370		20	0.03	<10	<10	32	<10	134
CC90371		<20	0.03	<10	<10	40	<10	124
CC90372		<20	0.03	<10	<10	29	10	99
CC90373		<20	0.01	<10	<10	14	<10	51
CC90374		<20	0.02	<10	<10	31	<10	110
CC90375		<20	0.03	<10	<10	33	<10	47
CC90376		<20	0.05	<10	<10	56	<10	57
CC90377		<20	0.06	<10	<10	42	<10	98
CC90378		<20	0.04	<10	<10	32	<10	77
CC90379		<20	0.01	<10	<10	6	<10	4
CC90380		<20	0.07	<10	<10	43	<10	109
CC90381		<20	0.01	<10	<10	29	<10	45
CC90382		<20	0.02	<10	<10	17	<10	21
CC90383		<20	0.02	<10	<10	42	<10	82
CC90384		<20	0.03	<10	<10	27	<10	70
CC90385		<20	0.03	<10	<10	27	<10	77
CC90386		<20	0.04	<10	<10	64	<10	95
CC90387		<20	0.01	<10	<10	22	<10	49
CC90388		<20	0.03	<10	<10	34	<10	194
CC90389		<20	0.05	<10	<10	37	<10	78
CC90390		<20	0.06	<10	<10	43	60	193
CC90391		<20	0.06	<10	<10	40	<10	238
CC90392		<20	0.06	<10	<10	41	<10	63
CC90393		<20	0.01	<10	<10	20	<10	73
CC90394		<20	0.06	<10	<10	57	10	125
CC90395		<20	0.03	<10	<10	37	<10	116
CC90396		<20	0.02	<10	<10	9	<10	30
CC90397		<20	0.07	<10	<10	30	10	110
CC90398		<20	0.03	<10	<10	23	<10	108
CC90399		<20	0.04	<10	<10	18	20	65
CC90400		<20	0.05	<10	<10	30	<10	111
CC90157		<20	0.06	<10	<10	40	<10	92



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC90158		0.28	0.005	<0.2	2.40	64	<10	90	1.0	<2	0.26	<0.5	14	34	21	3.21
CC90159		0.28	0.002	<0.2	2.43	62	<10	80	1.0	<2	0.22	0.5	14	35	19	3.94
CC90160		0.32	<0.001	<0.2	1.79	68	<10	70	0.9	<2	0.41	<0.5	10	24	23	3.02
CC90161		0.30	0.004	<0.2	3.41	31	<10	80	1.3	<2	0.25	<0.5	26	47	28	4.17
CC90162		0.34	0.002	<0.2	2.54	22	<10	80	0.9	2	0.27	<0.5	13	43	19	3.10
CC90163		0.30	0.001	<0.2	2.20	17	<10	100	0.9	<2	0.51	<0.5	11	34	17	3.01



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC90158		10	<1	0.08	20	0.83	218	1	0.02	30	870	14	0.04	<2	3	29
CC90159		10	1	0.08	10	0.70	299	1	0.02	31	580	17	0.03	<2	3	29
CC90160		10	<1	0.08	10	0.48	423	1	0.03	20	770	15	0.05	<2	1	39
CC90161		10	1	0.12	10	1.09	329	<1	0.03	58	440	15	0.03	<2	4	51
CC90162		10	<1	0.10	10	0.86	272	1	0.03	34	710	11	0.03	<2	3	36
CC90163		10	<1	0.06	10	0.68	267	1	0.02	28	820	15	0.05	<2	2	69



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC90158		<20	0.06	<10	<10	36	<10	77
CC90159		<20	0.06	<10	<10	44	<10	87
CC90160		<20	0.04	<10	<10	29	<10	61
CC90161		<20	0.09	<10	<10	39	<10	112
CC90162		<20	0.08	<10	<10	40	<10	77
CC90163		<20	0.05	<10	<10	37	<10	77



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Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.