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ASSESSMENT REPORT

describing

SOIL GEOCHEMICAL SAMPLING

at the

LOOP PROPERTY

Loop 1-24 YC89955- YC89978
25-50 YD58719-YD58744

NTS 105G/09

Latitude 61°36'N; Longitude 131°13'W

in

Watson Lake Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

WOLVERINE MINERALS CORP.

and

STRATEGIC METALS LTD.

by

A. Mitchell, B.Sc. Geology
February 2012



095781

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INTRODUCTION

The Loop property covers base, precious metal and coal showings. The property lies on the northeastern side of the Finlayson Volcanogenic Massive Sulphide (VMS) District in southern Yukon. It is owned by Strategic Metals Ltd. and is under option to Wolverine Minerals Corp.

This report describes geochemical sampling conducted by Archer, Cathro & Associates (1981) Limited from July 22 to 31, 2011 on behalf of Wolverine. The author interpreted all data from this project and his Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Loop property consists of 50 contiguous mineral claims, which are located on NTS map sheets 105G/09 at latitude 61°36' north and longitude 131°13' west in southeastern Yukon (Figure 1). The property covers an area of approximately 1000 ha (10 km²). The claims are registered in the Watson Lake Mining District in the name of Archer Cathro, which holds them in trust for Strategic. 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>
Loop 1-24	YC89955- YC89978	March 31, 2017
25-50	YD58719-YD58744	March 31, 2017

* Expiry date includes 2011 work that has been filed for assessment credit but not yet accepted.

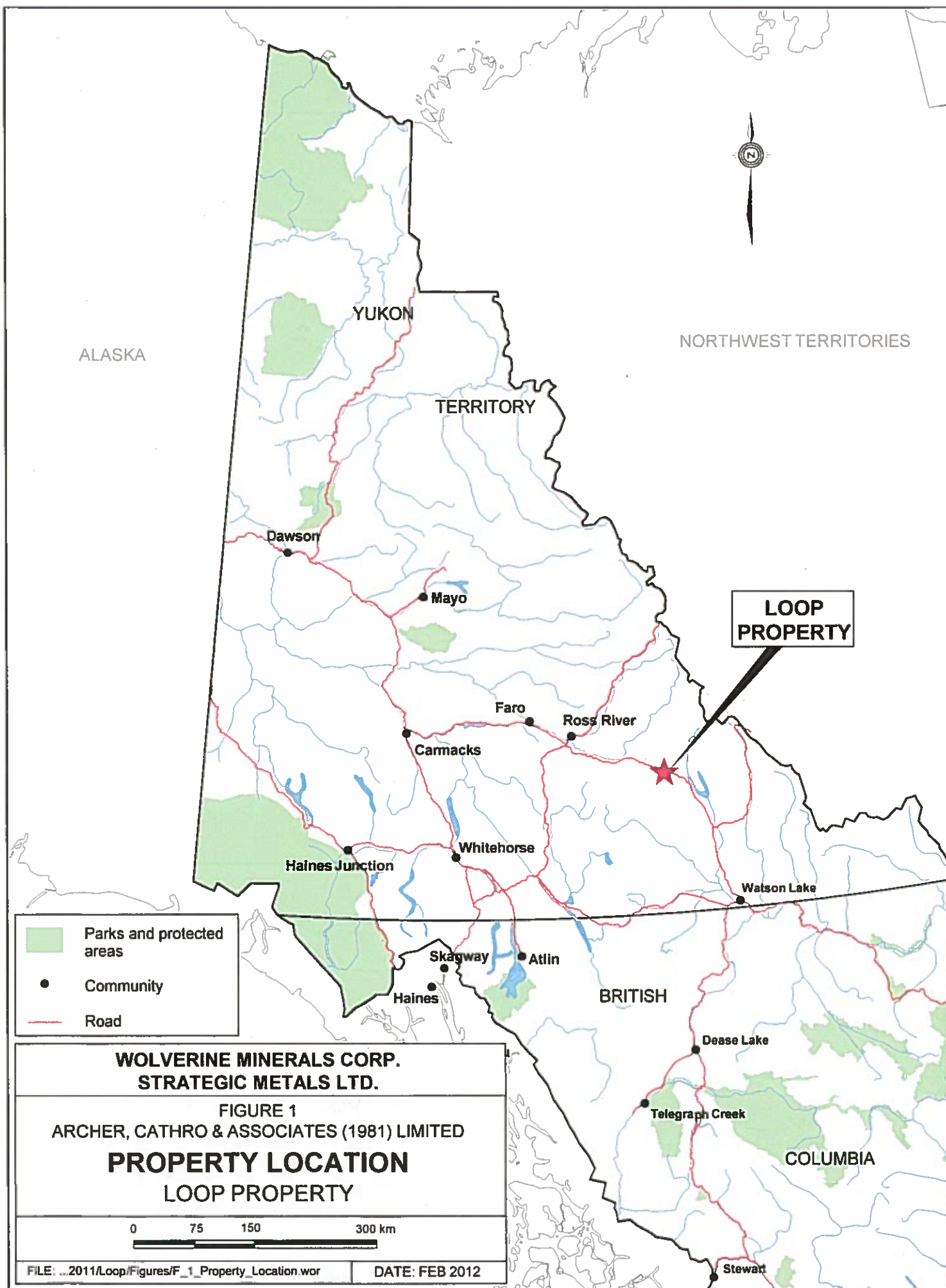
Daily access to and from the property was provided by a Hughes 500D helicopter operated by Kluane Airways from the Inconnu Fishing Lodge on McEvoy Lake, which is located 20 km north of the property.

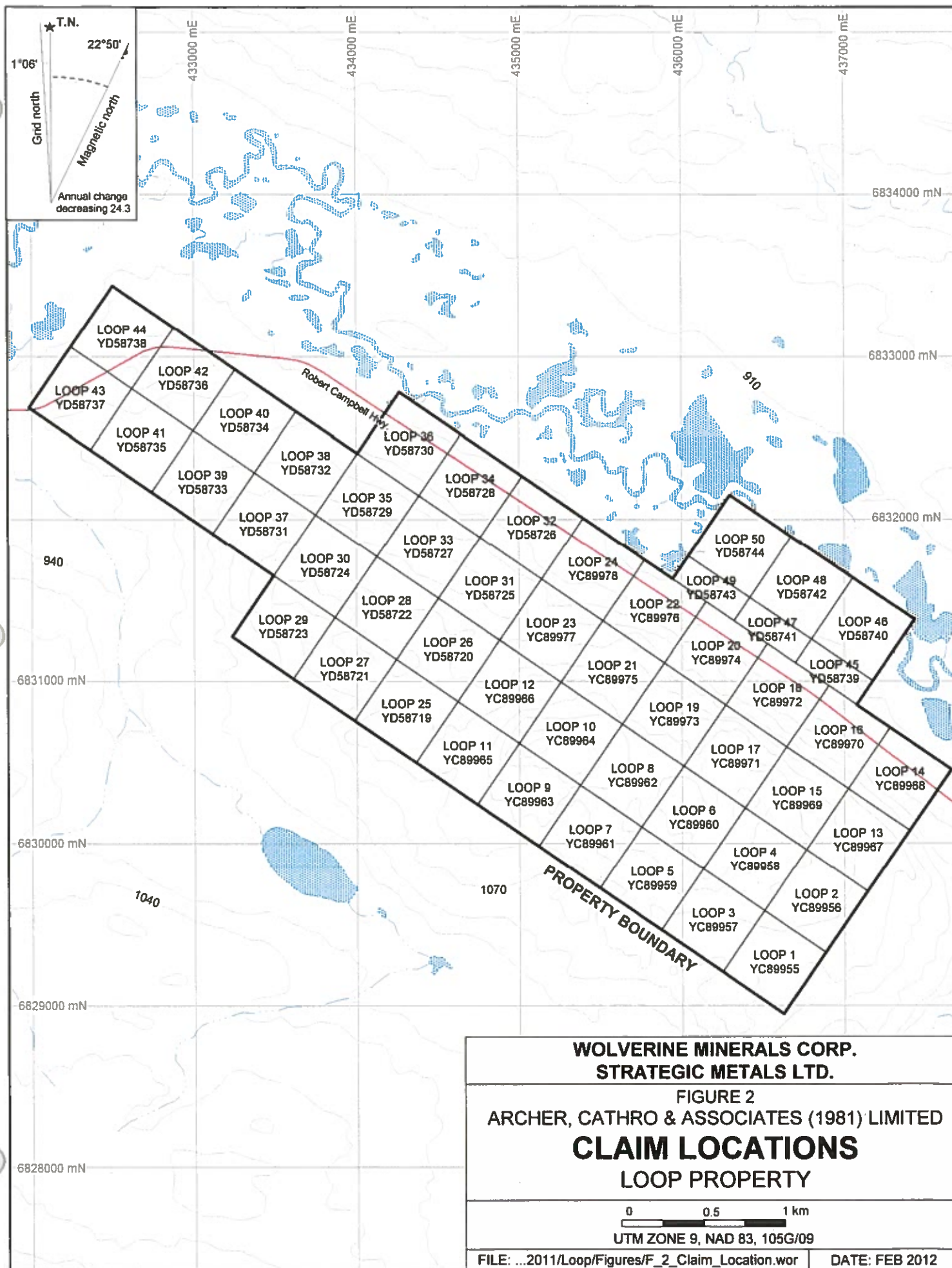
The Loop property lies about 120 km southeast of the community of Ross River, the nearest supply centre. The Robert Campbell Highway bisects the property and is usable in all seasons by two wheel drive vehicles. There is a system of partially overgrown roads and trails on the property.

HISTORY AND PREVIOUS WORK

The first work in the area now covered by the Loop property consisted of extensive bulldozer trenching in the 1960s, but no staking records associated with that work have been found (Davidson, 1996).

In 1994, Davidson staked the Aley claims over an area described as the Main Zone. During 1994 and 1995 work comprised geological mapping, rock sampling, and 33 km of VLF-EM and magnetometer surveys. Four quartz-carbonate samples collected during that program yielded between 79 ppb and 200 ppb gold (Davidson, 1996).





In 1994, A. McMillan staked the Oop 1-12 claims adjoining the Aley claims and in 1995 he added the Oop 13-45 claims. In 1996, Gamah International Limited optioned the claims and conducted linecutting, VLF-EM and magnetometer surveys, geological mapping, soil and rock geochemical sampling, and diamond drilling in four holes (Figure 3). Results from diamond drilling are discussed in the Historical Diamond Drilling section.

In 1995, Westmin Resources Ltd staked the Rope 1-8 claims northwest of the Oop claims and northeast of the Aley claims (Deklerk and Traynor, 2005).

In December 2009, Strategic staked the Loop 1-24 and in May 2010, it added the Loop 25-50 claims (Eaton, 2011). During summer 2010, Strategic completed three days of soil geochemical sampling and prospecting, which yielded weakly to moderately anomalous values for gold (up to 39 ppb) and zinc (up to 231 ppm) and moderately to strongly elevated values for copper (up to 177 ppm). Wolverine signed an optional purchase agreement with Strategic in September 2010.

GEOMORPHOLOGY

The Loop property is situated in the Campbell Range of the Pelly Mountains, about 15 km east of Finlayson Lake. The property is drained by creeks that flow into the Finlayson River, which ultimately connects to the Arctic Ocean via the Liard and Mackenzie rivers.

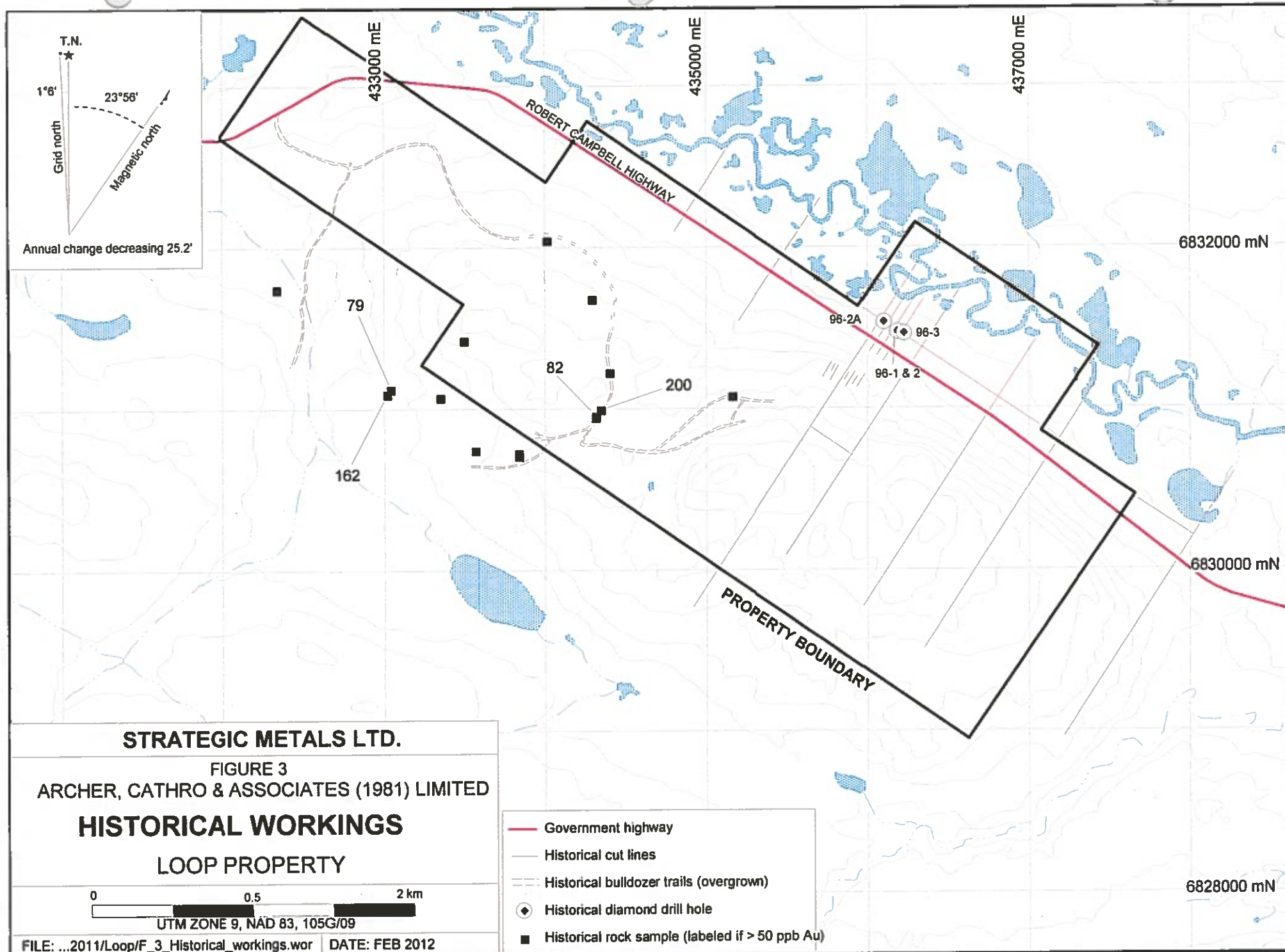
Local elevations on the property range from 900 to 1200 m above sea level. The property lies entirely below treeline. Topographic relief is gentle to moderate. Outcrop is rare and is generally limited to creek cuts. Vegetation comprises black spruce and alder with an understory of low shrubs, grass, and moss.

Much of the overburden in the region is associated with the most recent Cordilleran ice sheet of the McConnell glaciation, which is thought to have covered south and central Yukon between 26,500 and 10,000 years ago. (Yukon Geological Survey, 2010).



Typical terrain and vegetation at the Loop property

The climate in the Loop 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 Loop property lies within the Finlayson Lake District, which has been the focus of numerous government and industry sponsored studies due to its VMS potential. The Geological Survey of Canada mapped the Finlayson Lake area (NTS map sheet 105G) twice at 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.

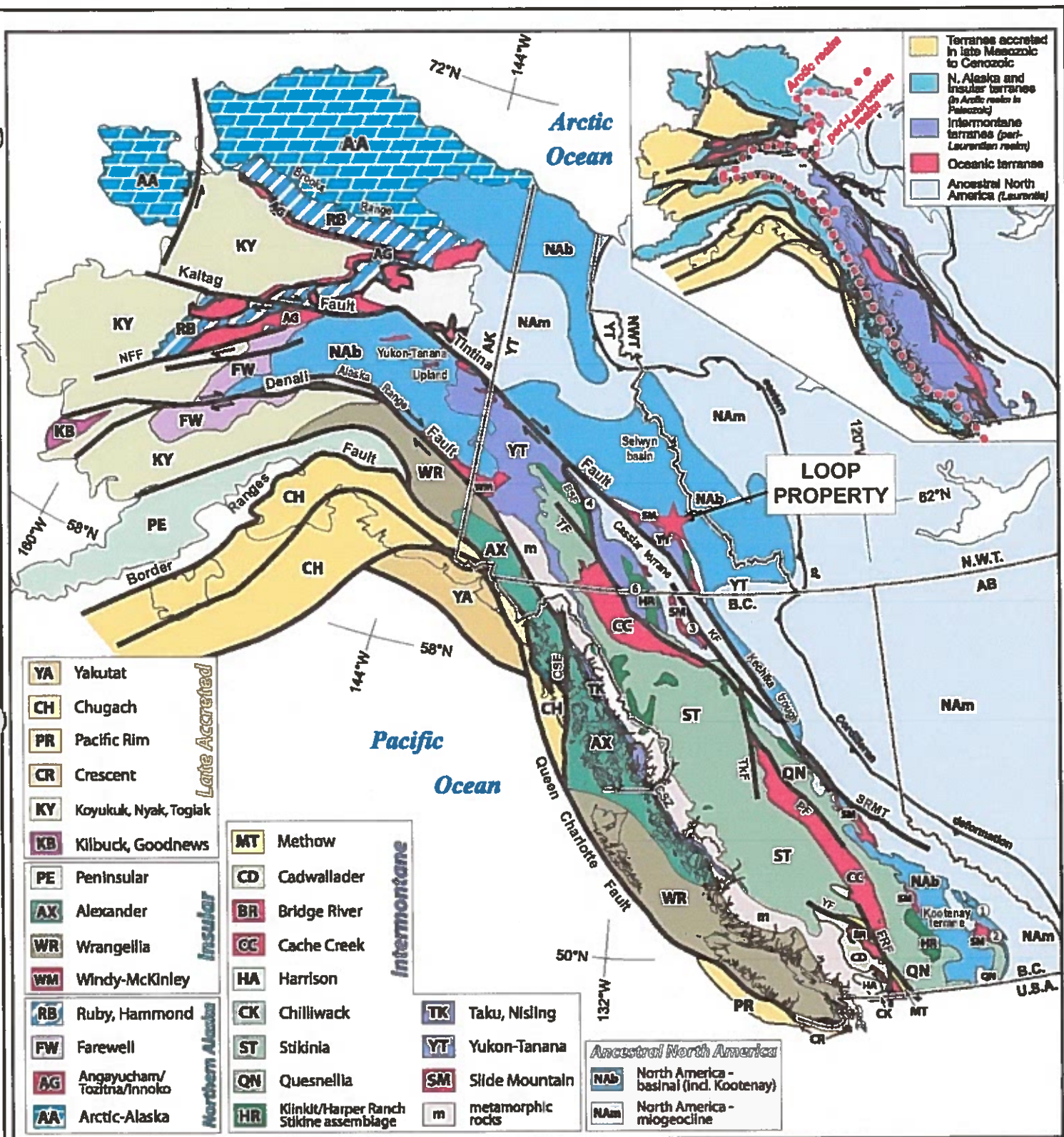
The Finlayson Lake VMS District is located within an outlier of Yukon-Tanana (YTT) and Slide Mountain (SMT) Terranes (Figure 4) and affiliated overlap assemblages (Murphy *et al.*, 2006), which is bounded by the Tintina Fault to the southwest and the Inconnu Thrust Fault to the northeast.

YTT and SMT 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). Pericratonic rocks of YTT and oceanic rocks of SMT are juxtaposed against rocks of the North American continental margin sequence along the post-Late Triassic Inconnu Thrust Fault (Murphy *et al.*, 2006). Rocks of both Terranes in the Finlayson Lake District are characterized by variably deformed and metamorphosed, lower greenschist to amphibolite facies metasedimentary and metavolcanic rocks and affiliated metaplutonic suites.

Prior to the Late Triassic, YTT experienced regional shortening and uplift. This terrane was imbricated with mid-Paleozoic SMT after Late Triassic and the resultant structural stack was subsequently thrust onto the North American continental margin before Mid-Cretaceous (Murphy *et al.*, 2006).

During the Mesozoic era two types of intrusion were emplaced in the Finlayson Lake area. The first includes several unmetamorphosed Early Jurassic mafic and intermediate composition plutons. The second consists of Late Cretaceous two-mica quartz monzonite and granite (Mortensen and Jilson, 1985).

In the Loop property area, YTT is juxtaposed against an overlying klippe of SMT. YTT is represented by Devonian to Mississippian Nasina Assemblage (DMN1) metasedimentary rocks, while SMT is characterized by Carboniferous to Permian Anvil Assemblage (CPA) mafic volcanics and chert and pelite. The main lithologies and their sub-units are described in greater in detail in Table I.



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FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
TECTONIC SETTING
LOOP PROPERTY

0 300 km

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

Unit Name	Map Name	Age	Terrane	Description
Anvil Assemblage	CPA1	Carboniferous and Permian	Slide Mountain	Variably altered and foliated, locally augite-phyric basalt (local pillows), diorite and gabbro, chloritic greenstone, amphibolitic greenstone and amphibolite; minor metachert, siliceous argillite or siltstone, greywacke, tuff, and siliceous limestone.
	CPA2			Varicoloured meta-chert with partings or interbeds of phyllite and tuffaceous argillite; interbedded jasper, apple green chert and cherty tuff; chert breccia; shale, minor greenstone, agglomerate, limestone, quartzite(?) and greywacke.
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 $\pm$ chlorite $\pm$ feldspar augen schist, locally garnetiferous; minor graphitic stretched metaconglomerate and metagrit.

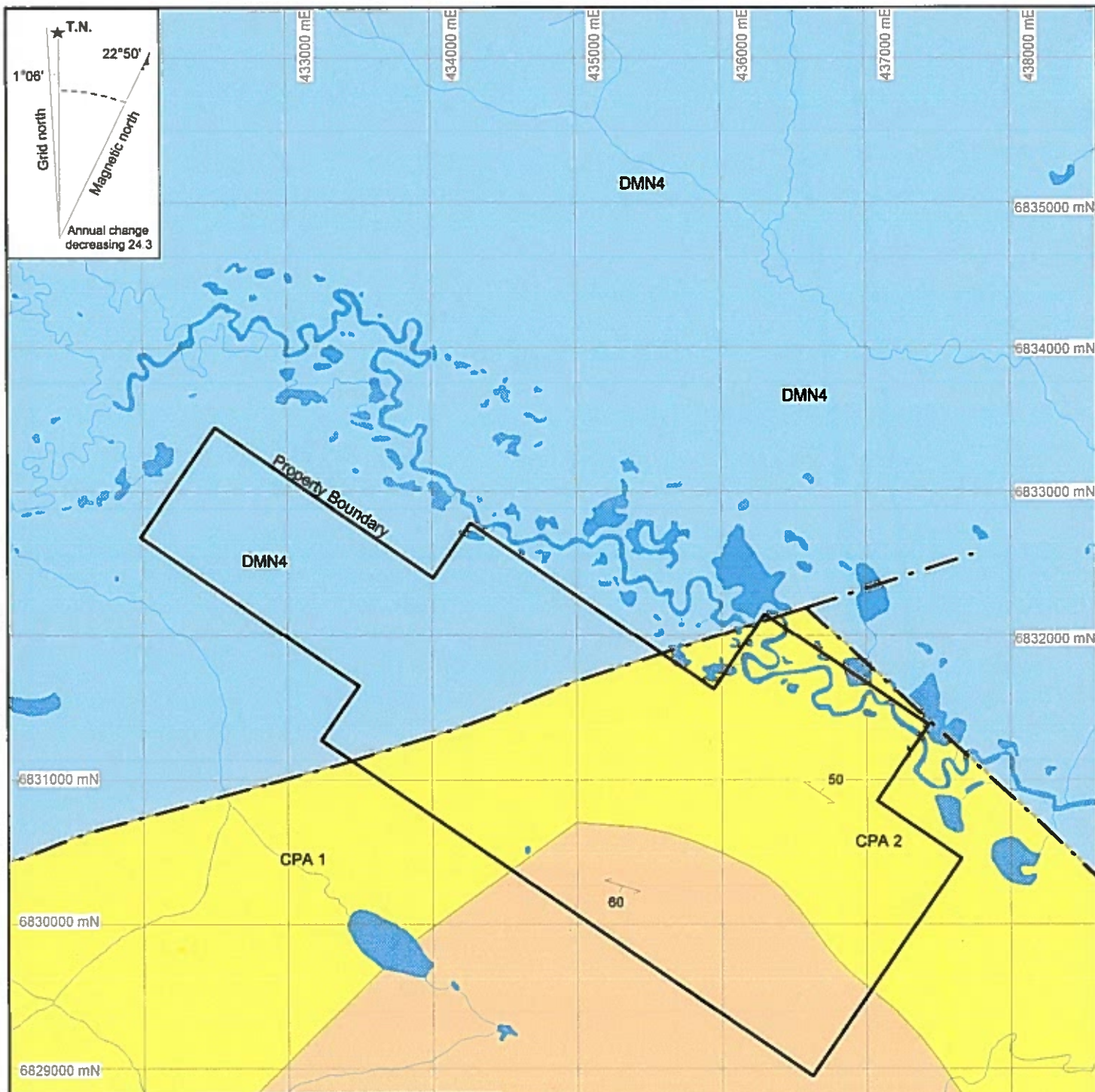
PROPERTY GEOLOGY

In 1996, property-scale geological mapping was performed by Gamah International (Arengi, 1996). No geological mapping has been done by Strategic or Wolverine. The following geological descriptions are based on the Gamah International work.

Two regional scale normal faults control geology near the property. The larger fault trends northeast and bisects the northern part of the property, while the smaller fault trends northwest and is truncated by the larger fault. Anvil Assemblage is juxtaposed against Nasina Assemblage to the south along both faults (Figure 5).

On the property Nasina Assemblage comprises interbedded chert, quartz-sericite schist and greywacke. This unit is locally intruded by leucogabbro and serpentinite. Anvil Assemblage volcanic rocks consist of interbedded, intermediate to mafic volcanics, chert and other silica-rich rocks, which are locally intruded by leucogabbro. Argillite and coal that were intersected in 1996 drill holes are likely Late Cretaceous or Tertiary aged sediments deposited in a local graben atop Nasina Assemblage rocks.

Alteration comprising an iron-rich carbonate and clay assemblage with local chalcedony veinlets and green mica has been observed in both assemblages, but is much more extensive in the chert and chert breccia of the Nasina Assemblage. Dolomite and ankerite are mainly found in veinlets and within fragments surrounded by clay matrix.



--- Normal fault

CARBONIFEROUS AND PERMIAN

ANVIL

CPA 1

1. variably altered and foliated, locally augite-phyric basalt (local pillows), diorite and gabbro, chlorite greenstone, amphibolitic greenstone and amphibolite; minor metachert, siliceous argillite or siltstone, greywacke, tuff and siliceous limestone.

CPA 2

2. varicoloured metachert with partings or interbeds of phyllite and tuffaceous argillite; interbedded jasper red and apple green chert and cherty tuff, chert breccia; shale, minor greenstone, agglomerate, limestone, quartzite (?) and greywacke.

DEVONIAN, MISSISSIPPIAN AND OLDER

NASINA

DMN4

4. quartzite, micaceous quartzite, quartz muscovite (and/or chlorite; feldspar augen) schist, and minor metaconglomerate and metagrit.

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STRATEGIC METALS LTD.**

FIGURE 5 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED GEOLOGY LOOP PROPERTY

0 0.5 1 km

UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/Loop/F_5_Geology.wor

DATE: FEB 2012

MINERALIZATION

Mineralization identified by previous operators comprises fine grained disseminated chalcopyrite and pyrite in ankeritic quartz-carbonate veins within quartz-sericite schist. Rare euhedral pyrite cubes occur in altered rocks belonging to both assemblages.

SOIL GEOCHEMISTRY

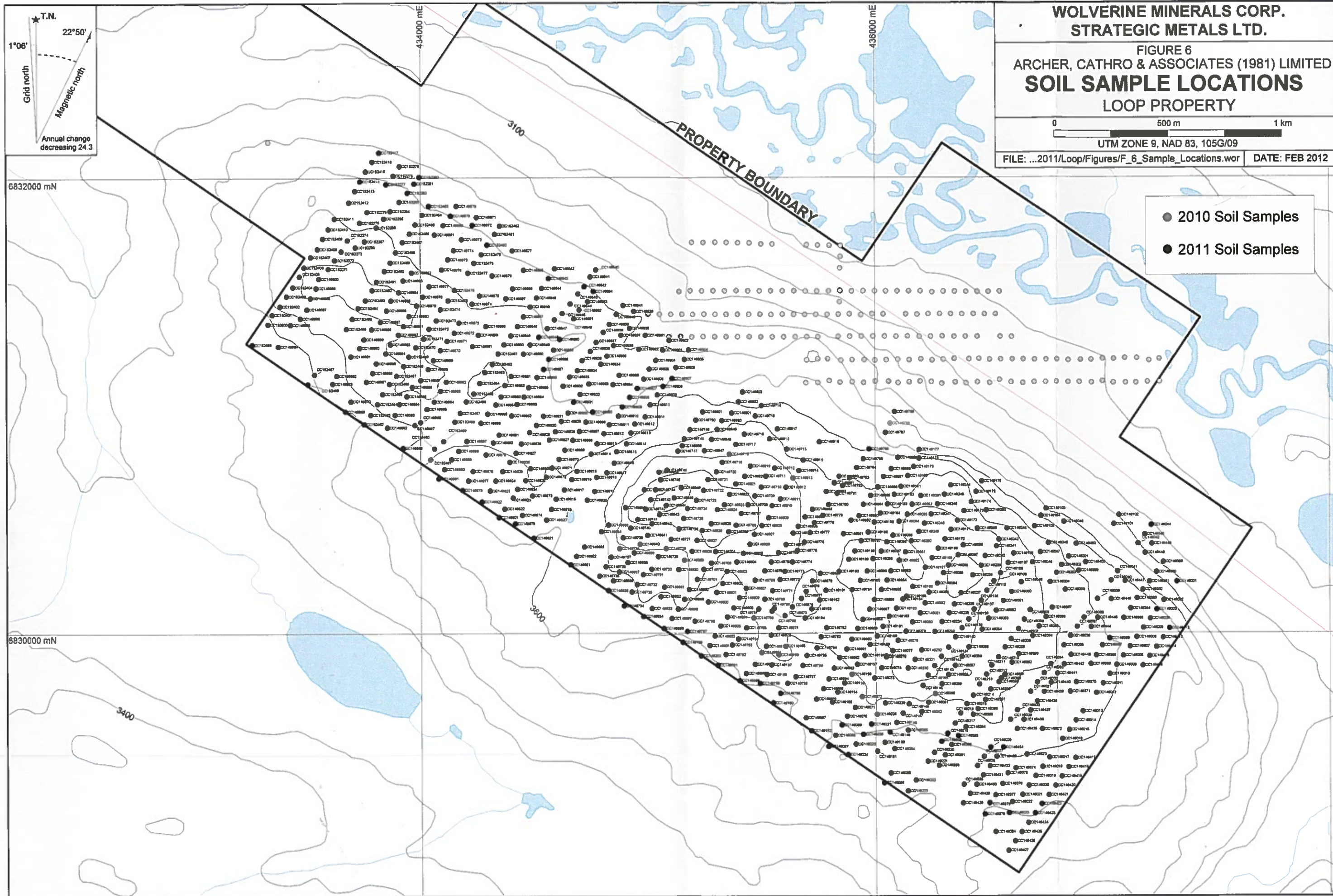
In 2011, 822 grid soil samples were collected at 50 m by 100 m spacings from the property. Soil sample locations are plotted on Figure 6, while results for gold, arsenic, silver, copper, antimony and zinc are illustrated thematically on Figure 7 to 12, respectively. Certificates of Analysis are provided in Appendix II.

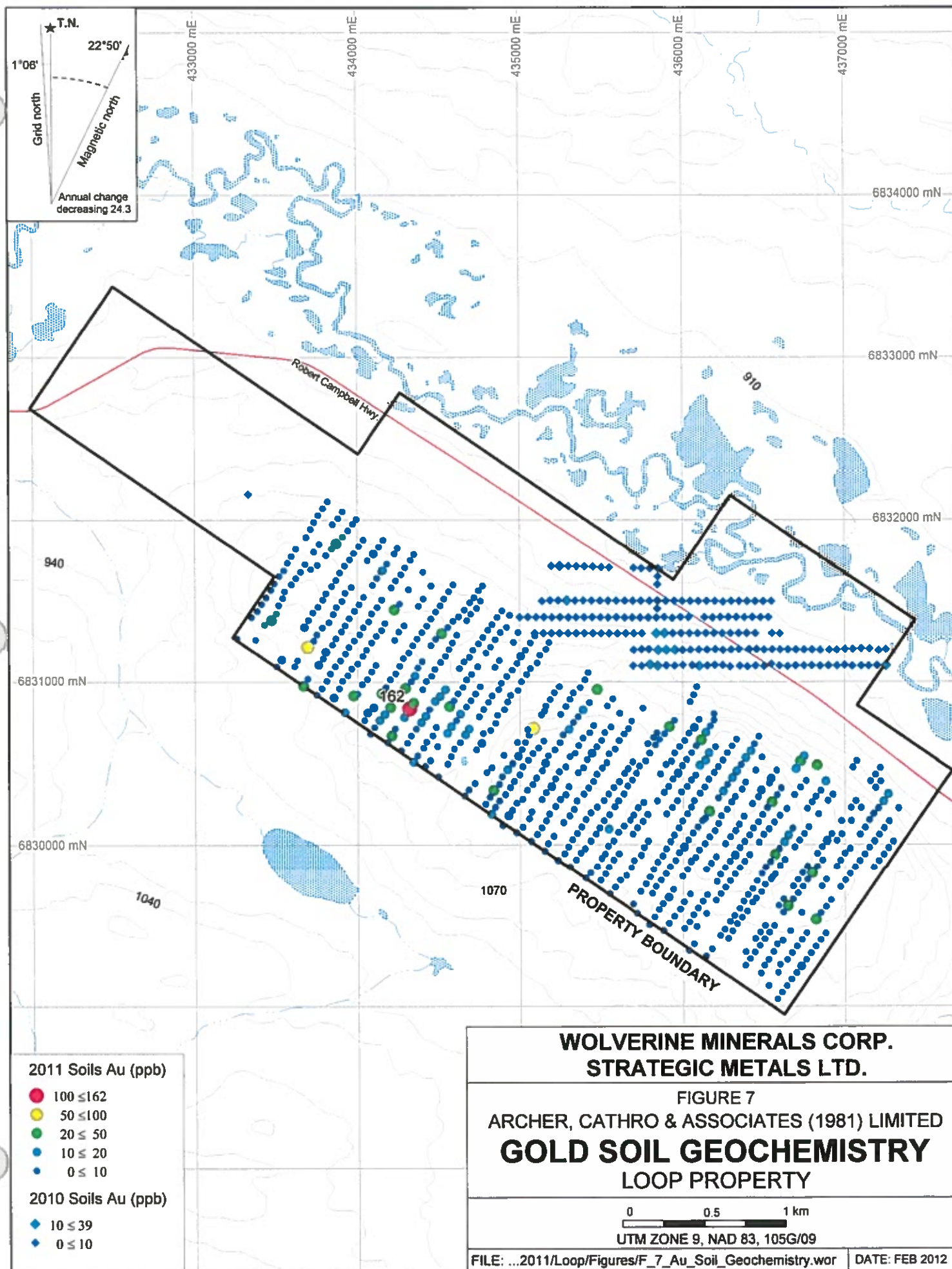
The soil samples were collected from 30 to 70 cm deep holes dug by hand-held auger. They were placed into individually pre-numbered Kraft paper bags. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. All soil sample locations were recorded using hand-held GPS units. The samples were shipped to ALS Chemex in Whitehorse, Yukon, where they were dried and sieved to -180 microns. They were then analyzed for 35 elements using aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emission spectroscopy finish (Au-ICP21). Anomalous thresholds and peak values for soil samples are listed in Table II.

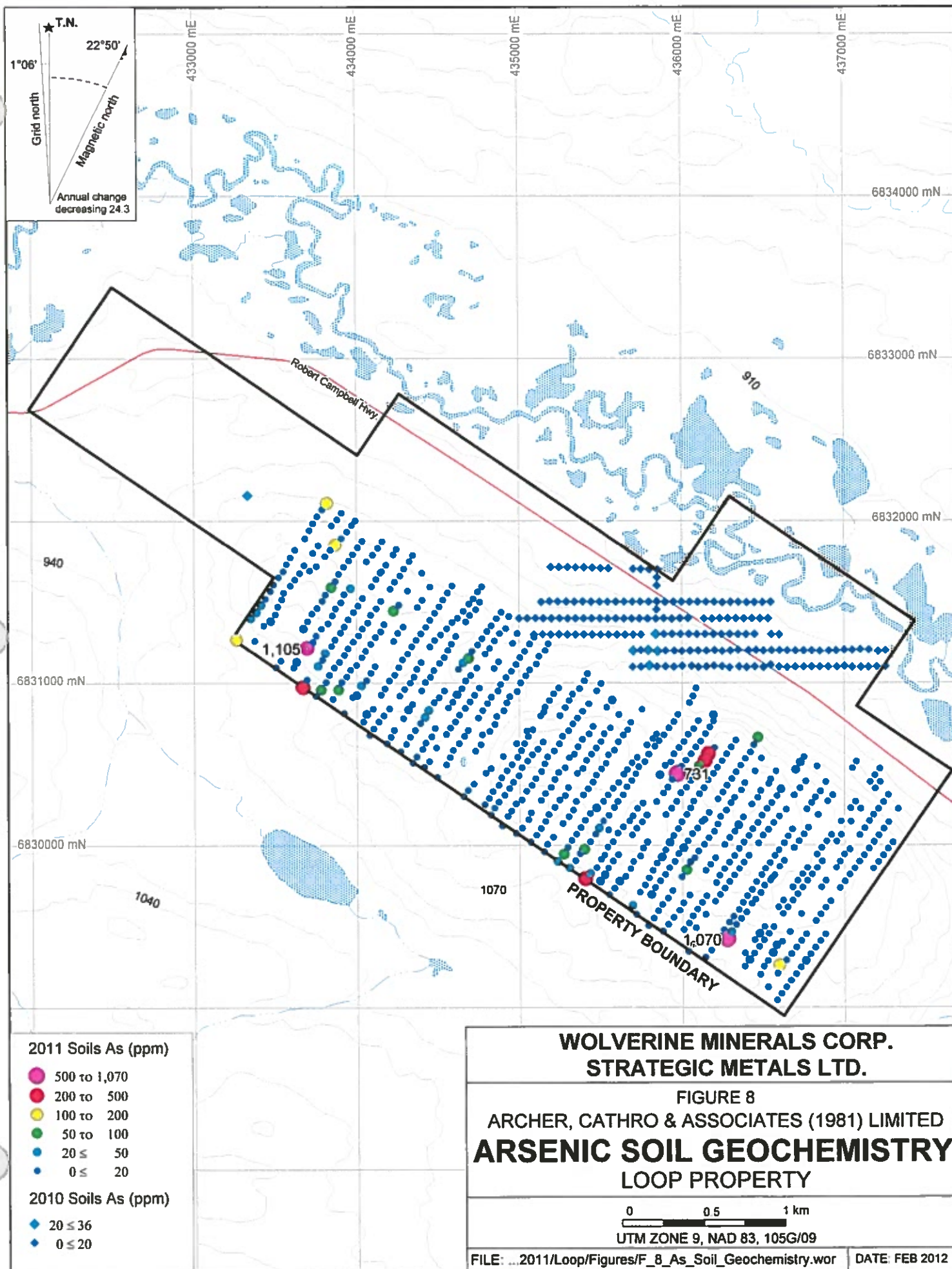
Table II – Geochemical Data for Soil Samples

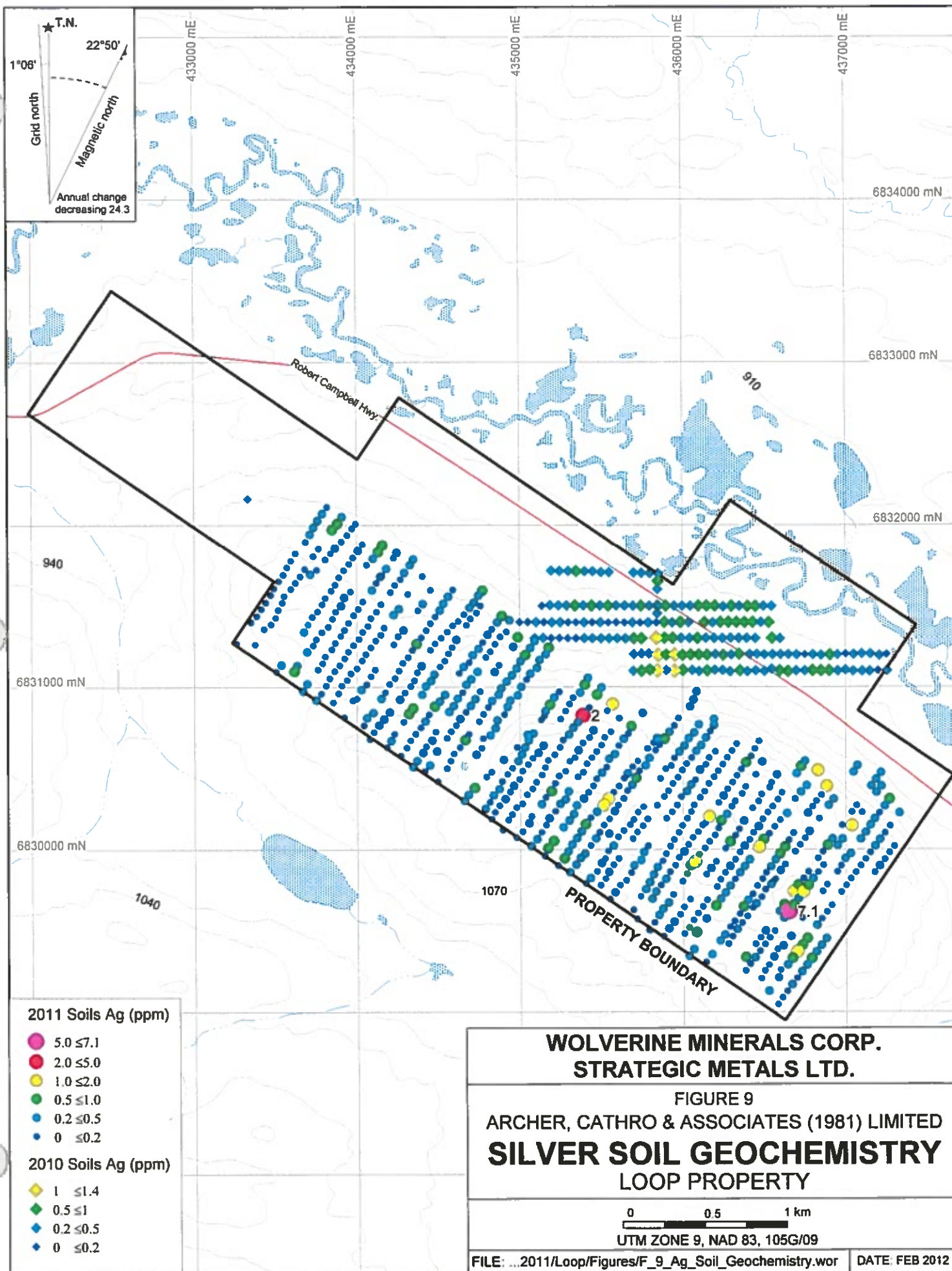
Element	Anomalous Thresholds				
	Weak	Moderate	Strong	Very Strong	Peak
Gold (ppb)	20 < 50	≥ 50 < 100	≥ 100 < 162	n/a	162
Arsenic (ppm)	50 < 100	≥ 100 < 200	≥ 200 < 500	≥ 500	1105
Silver (ppm)	0.5 < 1	≥ 1 < 2	≥ 2 < 5	≥ 5	7.1
Copper (ppm)	50 < 100	≥ 100 < 200	≥ 200 < 500	≥ 500	1010
Antimony(ppm)	2 < 5	≥ 5 < 10	≥ 10 < 20	≥ 20	214
Zinc (ppm)	100 < 200	≥ 200 < 500	n/a	≥ 500	2190

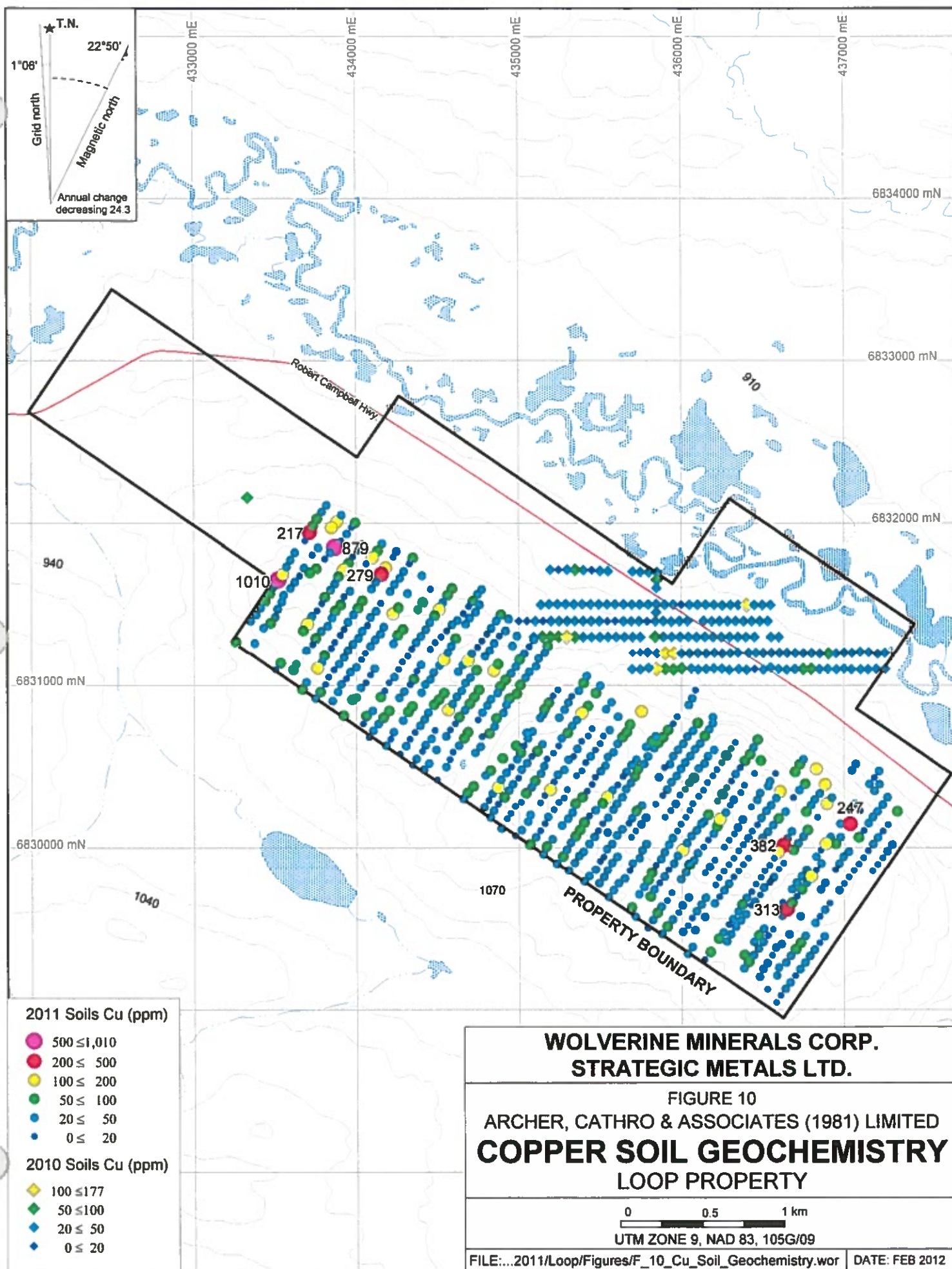
Soil sampling returned background to very strongly anomalous values for gold, arsenic, silver, copper, antimony and zinc. Anomalous values occur as isolated values or small clusters. There is poor correlation between most elements; however, in four locations arsenic and antimony have good correlation. In the northwest corner of the soil grid an arsenic and antimony anomaly roughly correlates with the highest gold-in-soil value (162 ppb). Very strongly anomalous copper (1010 ppm) and zinc (2190 ppm) values lie near the main fault in the northwest part of the property.

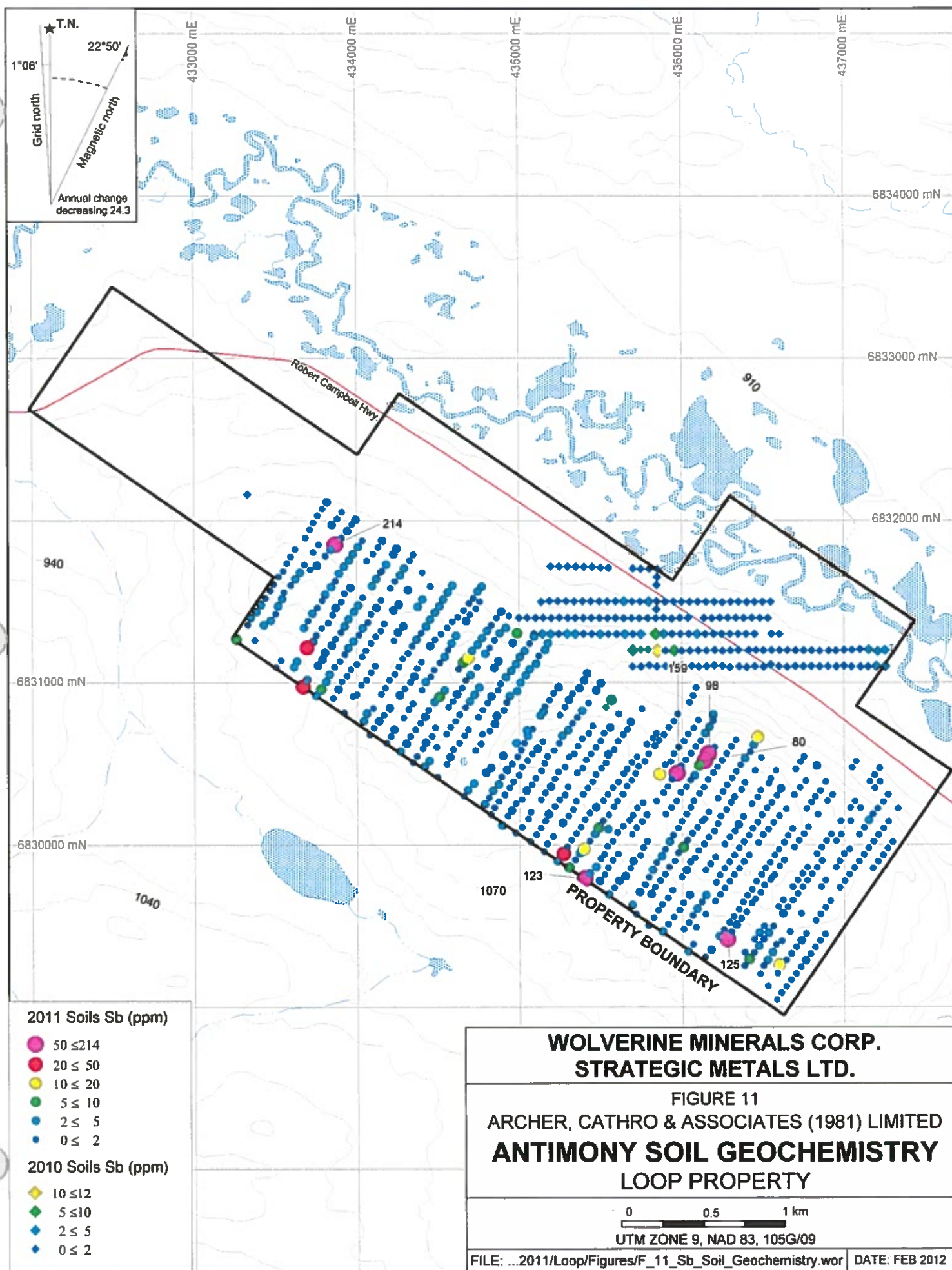


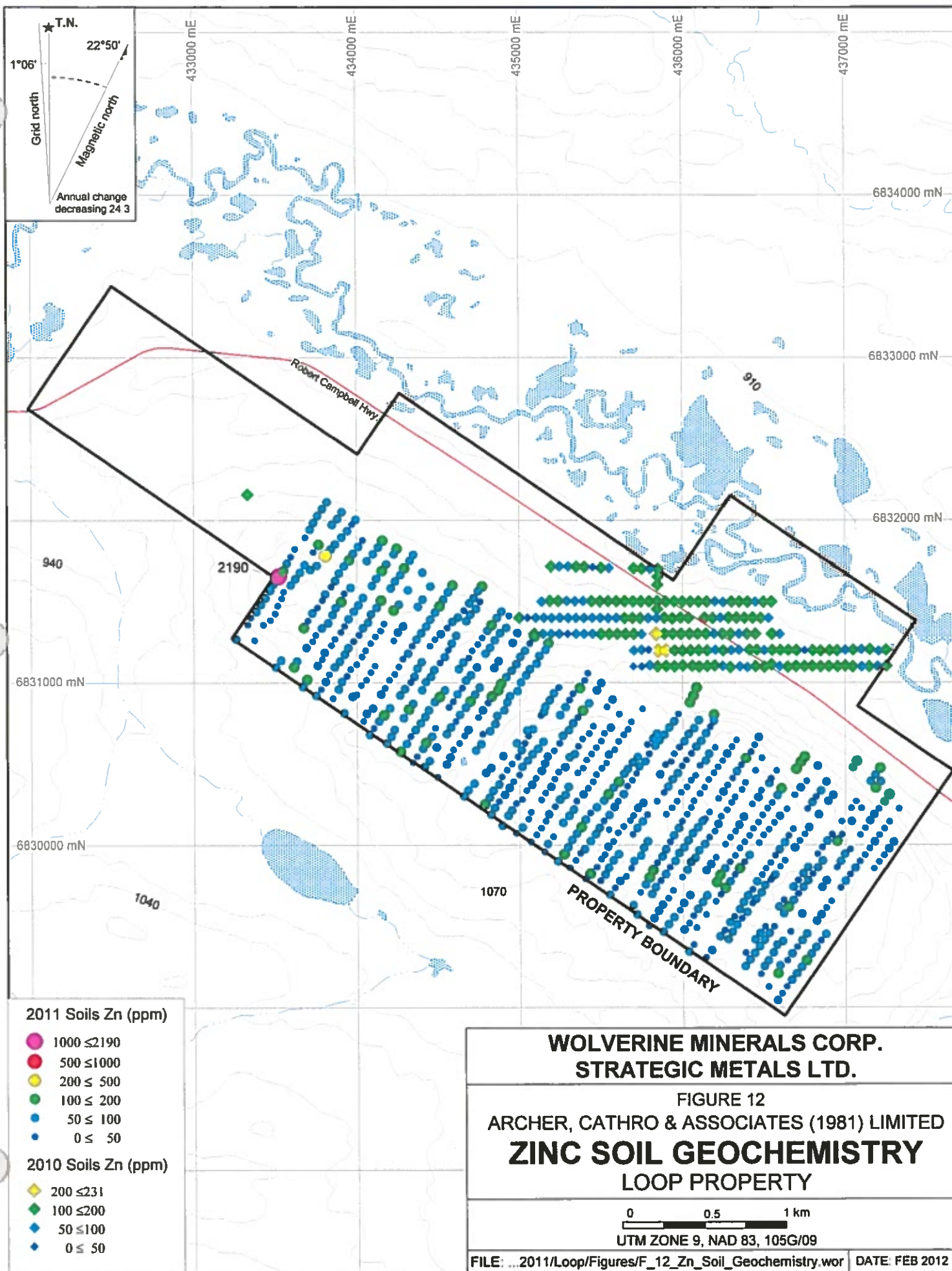












HISTORICAL DIAMOND DRILLING

In 1996, a four hole, 247.3 metre diamond drill program was completed on the Oop property (Arengi, 1996). This drilling did not test the area that returned the 0.200 g/t gold rock sample. It tested a geophysical anomaly near the Finlayson River (Figure 3).

OOP 96-1 and OOP 96-2 encountered a zone of brecciation, sericitization, silicification and carbonatization hosted within leucogabbro, which extends continuously from surface to depths of 58 m and 55 m, respectively. Gold values were low in these holes.

OOP 96-2a intersected 19.2 m of baked gritty coal, before being abandoned due to poor drilling conditions. OOP 96-3 intersected 53.9 m of black and gritty argillaceous coal, which becomes more argillaceous with depth. This hole was not sampled (Arengi, 1996).

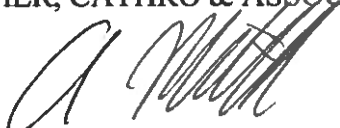
DISCUSSION AND CONCLUSIONS

Exploration by Wolverine in 2011 successfully identified a number of very anomalous soil sample values for gold, arsenic, silver, copper, antimony and zinc. Scattered, erratic nature of these anomalies may be due to glacial dispersion. The source of these anomalies is thought to be quartz-carbonate altered zones or veins within the Nasina and Anvil assemblages.

The Loop property warrants further exploration. Techniques normally used to follow up geochemical anomalies, such as detailed prospecting and geological mapping, are unlikely to be effective on this property due to the thick overburden and vegetation cover. Therefore, track-mounted reverse circulation drilling is recommended in geochemically anomalous areas. The existing bulldozer roads could be used as access routes, but may require brushing prior to use. If zones of strong gold enrichment are outlined in bedrock, those zones should be further evaluated with diamond drill holes.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



Andrew Mitchell, B.Sc. Geology

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Yukon Geological Survey

2010 Geoprocess File Summary Report for Coal River Map Area N.T.S. 095D;

Available at:

http://ygsftp.gov.yk.ca/publications/openfile/2002/of2002_8d_geoprocess_file/documents/map_specific/095d.pdf

APPENDIX I
STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

1. I graduated from the University of British Columbia in 2010 with a B.Sc. in Earth and Environmental Sciences.
2. From 2010 to present, I have been actively engaged in mineral exploration in Yukon Territory.
3. I have interpreted all data resulting from this work.

A handwritten signature in black ink, appearing to read 'A. Mitchell', written in a cursive style.

Andrew Mitchell, B.Sc.

APPENDIX II
CERTIFICATES OF ANALYSIS



ALS Canada Ltd.

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 9- SEP- 2011
Account: F

CERTIFICATE WH11141109

Project: WLV- Loop

P.O. No.:

This report is for 212 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

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: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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: 7 (A - C)
Finalized Date: 9- SEP- 2011
Account: F

Project: WLV- Loop

CERTIFICATE OF ANALYSIS WH11141109

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149359		0.26	0.010	0.5	1.15	9	<10	700	0.5	<2	0.50	<0.5	9	21	41	2.14
CC149360		0.24	0.016	0.2	0.91	6	<10	1050	<0.5	<2	0.26	<0.5	12	34	42	1.89
CC149361		0.26	0.005	<0.2	0.45	3	<10	630	<0.5	<2	0.25	<0.5	4	12	27	0.83
CC149362		0.22	0.008	0.2	1.44	7	<10	2250	<0.5	<2	0.38	<0.5	15	21	45	2.74
CC149363		0.36	0.004	0.3	2.03	17	<10	380	<0.5	<2	0.17	<0.5	16	269	29	4.68
CC149364		0.34	0.002	0.3	1.34	7	<10	300	<0.5	<2	0.02	<0.5	5	22	12	2.13
CC149365		0.26	0.002	0.2	0.77	2	<10	610	<0.5	<2	0.16	<0.5	3	19	74	0.73
CC149366		0.16	0.002	0.2	0.71	<2	<10	540	<0.5	<2	0.03	<0.5	2	9	24	0.74
CC149367		0.26	0.003	0.2	0.87	10	<10	370	<0.5	<2	0.04	<0.5	11	29	35	2.60
CC149368		0.18	0.001	<0.2	0.86	3	<10	240	<0.5	<2	0.04	<0.5	3	10	24	1.21
CC149369		0.22	0.007	<0.2	0.51	<2	<10	220	<0.5	<2	0.02	<0.5	2	7	8	0.87
CC149370		0.32	0.005	<0.2	1.55	7	<10	520	<0.5	<2	0.01	<0.5	7	17	29	2.19
CC149371		0.36	0.007	<0.2	1.10	7	<10	390	<0.5	<2	0.05	<0.5	5	15	22	2.03
CC149372		0.38	0.004	<0.2	1.04	6	<10	420	<0.5	<2	0.04	<0.5	6	14	20	1.93
CC149373		0.18	0.001	0.2	0.46	2	<10	180	<0.5	<2	0.11	<0.5	3	9	25	1.15
CC149374		0.20	0.004	0.4	0.49	8	<10	190	<0.5	<2	0.14	<0.5	4	9	34	1.33
CC149375		0.18	0.007	<0.2	1.38	20	<10	690	<0.5	<2	0.48	<0.5	16	34	38	3.63
CC149376		0.18	0.003	0.2	0.97	28	<10	360	<0.5	<2	0.24	<0.5	23	74	18	6.44
CC149377		0.26	0.002	<0.2	2.65	5	<10	320	<0.5	<2	0.39	<0.5	18	70	25	5.07
CC149378		0.14	0.001	<0.2	2.87	5	<10	260	<0.5	<2	0.20	<0.5	16	14	29	6.11
CC149379		0.12	0.002	<0.2	1.83	9	<10	530	<0.5	<2	0.51	<0.5	14	62	21	3.41
CC149380		0.34	0.006	<0.2	2.12	1070	<10	650	0.7	<2	0.16	<0.5	69	741	29	5.29
CC149381		0.32	0.003	<0.2	1.30	24	<10	510	0.5	<2	0.18	<0.5	11	40	28	2.44
CC149382		0.22	0.002	0.2	1.64	13	<10	370	0.5	<2	0.33	<0.5	18	62	44	5.45
CC149383		0.30	0.002	<0.2	1.28	9	<10	360	<0.5	<2	0.21	<0.5	10	34	23	2.97
CC149384		0.30	0.001	<0.2	2.18	5	<10	290	<0.5	<2	0.30	<0.5	16	38	20	2.77
CC149385		0.28	0.002	<0.2	0.95	6	<10	220	<0.5	<2	0.09	<0.5	5	19	14	1.57
CC149386		0.30	0.001	0.3	2.00	9	<10	1150	0.8	<2	0.54	<0.5	7	28	38	2.06
CC149387		0.28	0.001	<0.2	1.81	5	<10	620	<0.5	<2	0.12	<0.5	8	35	16	2.11
CC149388		0.34	0.002	<0.2	2.35	5	<10	490	<0.5	<2	0.06	<0.5	8	46	26	2.74
CC149389		0.28	0.002	<0.2	0.99	5	<10	510	<0.5	<2	0.06	<0.5	5	14	15	1.80
CC149390		0.20	0.004	0.2	0.45	4	<10	240	<0.5	<2	0.05	<0.5	6	7	11	0.75
CC149001		0.26	0.005	0.2	1.60	<2	<10	290	<0.5	<2	0.04	<0.5	3	16	75	1.01
CC149002		0.20	0.001	<0.2	0.72	3	<10	220	<0.5	<2	0.03	<0.5	4	8	10	1.40
CC149003		0.18	0.001	<0.2	0.86	3	<10	460	<0.5	<2	0.02	<0.5	3	8	19	0.97
CC149004		0.14	0.002	0.2	0.52	<2	<10	680	<0.5	<2	0.12	<0.5	3	9	34	0.61
CC149005		0.24	0.008	0.2	0.77	3	<10	370	<0.5	<2	0.85	<0.5	9	15	34	1.33
CC149006		0.18	0.003	<0.2	0.57	5	<10	180	<0.5	<2	0.06	<0.5	3	7	8	0.90
CC149007		0.18	0.002	<0.2	0.22	<2	<10	110	<0.5	<2	0.03	<0.5	2	4	7	0.47
CC149008		0.20	0.001	<0.2	0.39	<2	<10	220	<0.5	<2	0.04	<0.5	3	5	8	0.56



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149359		<10	1	0.10	20	0.40	410	3	0.02	28	780	15	0.04	<2	3	46
CC149360		<10	1	0.07	10	0.38	742	2	0.02	37	340	8	0.02	<2	2	27
CC149361		<10	1	0.05	10	0.11	303	1	0.02	12	230	4	0.02	<2	1	33
CC149362		<10	<1	0.07	10	0.28	1745	2	0.03	27	350	18	0.03	<2	3	43
CC149363		10	<1	0.05	10	1.32	791	3	0.01	100	440	6	0.02	2	3	12
CC149364		<10	<1	0.04	20	0.24	212	2	0.01	15	160	6	0.01	<2	1	5
CC149365		<10	<1	0.03	10	0.13	110	1	0.03	15	330	6	0.01	<2	2	19
CC149366		<10	<1	0.04	10	0.04	87	2	0.03	8	150	4	0.01	<2	1	10
CC149367		<10	<1	0.04	10	0.11	712	3	0.02	24	560	16	0.02	<2	1	8
CC149368		10	<1	0.05	20	0.07	278	2	0.02	13	260	26	0.01	<2	1	7
CC149369		<10	<1	0.04	10	0.06	316	1	0.02	3	350	3	0.01	<2	1	7
CC149370		<10	<1	0.05	20	0.31	213	2	0.01	24	170	8	0.01	<2	2	4
CC149371		<10	<1	0.08	20	0.35	296	2	0.01	21	220	8	0.01	<2	1	8
CC149372		<10	<1	0.08	20	0.30	273	3	0.01	21	230	8	0.01	<2	1	7
CC149373		<10	<1	0.05	10	0.05	186	1	0.02	5	220	4	0.02	<2	1	14
CC149374		<10	<1	0.06	20	0.03	217	1	0.02	24	520	<2	0.01	<2	1	14
CC149375		<10	1	0.08	10	0.34	1000	2	0.02	31	490	8	0.02	<2	7	30
CC149376		<10	<1	0.04	<10	0.23	1300	1	0.02	45	520	3	0.02	2	11	14
CC149377		10	<1	0.04	10	1.05	667	1	0.02	36	250	2	0.01	2	7	18
CC149378		10	1	0.03	<10	0.79	676	1	0.02	8	400	<2	0.01	<2	8	12
CC149379		10	<1	0.05	10	0.63	699	2	0.02	32	270	5	0.02	<2	5	20
CC149380		<10	<1	0.06	10	0.49	725	2	0.01	771	210	11	0.01	125	5	12
CC149381		<10	<1	0.07	20	0.49	529	2	0.01	41	250	11	0.01	<2	3	12
CC149382		10	<1	0.06	<10	0.38	750	1	0.02	33	460	3	0.03	2	15	19
CC149383		<10	1	0.04	10	0.32	288	1	0.01	26	180	5	0.01	<2	4	10
CC149384		10	<1	0.05	<10	0.28	976	1	0.01	10	350	2	0.02	<2	3	14
CC149385		<10	<1	0.06	20	0.24	261	1	0.01	13	160	4	0.01	<2	1	7
CC149386		10	<1	0.06	20	0.44	486	1	0.02	25	300	11	0.02	<2	5	26
CC149387		10	<1	0.05	20	0.52	580	1	0.02	22	260	4	0.01	<2	2	9
CC149388		10	<1	0.05	20	0.71	342	2	0.01	29	210	7	0.01	<2	3	8
CC149389		<10	<1	0.07	20	0.24	250	2	0.01	13	180	6	0.01	<2	1	7
CC149390		<10	<1	0.06	20	0.07	477	1	<0.01	10	260	6	<0.01	<2	1	9
CC149001		10	<1	0.03	10	0.08	51	3	0.01	8	150	19	<0.01	<2	2	8
CC149002		<10	<1	0.03	20	0.09	315	1	<0.01	10	180	5	<0.01	<2	1	7
CC149003		<10	<1	0.04	10	0.10	162	1	0.01	11	130	4	<0.01	<2	1	8
CC149004		<10	<1	0.03	<10	0.07	127	<1	0.02	21	490	4	0.01	<2	1	20
CC149005		<10	<1	0.05	10	0.34	272	1	0.01	24	570	7	0.04	<2	1	79
CC149006		<10	<1	0.03	20	0.05	103	1	<0.01	9	100	3	<0.01	<2	1	9
CC149007		<10	<1	0.02	<10	0.02	47	<1	0.02	6	70	<2	<0.01	<2	<1	7
CC149008		<10	<1	0.04	<10	0.04	89	<1	0.01	6	170	6	<0.01	<2	<1	9



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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 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC149359		<20	0.01	<10	<10	34	<10	103
CC149360		<20	0.01	<10	<10	25	<10	63
CC149361		<20	0.01	<10	<10	15	<10	27
CC149362		<20	0.01	<10	<10	28	<10	57
CC149363		<20	0.02	<10	<10	76	<10	64
CC149364		<20	0.01	<10	<10	38	<10	40
CC149365		<20	0.02	<10	<10	13	<10	25
CC149366		<20	0.01	<10	<10	17	<10	26
CC149367		<20	0.02	<10	<10	36	<10	85
CC149368		<20	0.02	<10	<10	27	<10	62
CC149369		<20	0.02	<10	<10	16	<10	34
CC149370		<20	0.01	<10	<10	29	<10	63
CC149371		<20	0.01	<10	<10	29	<10	65
CC149372		<20	0.01	<10	<10	29	<10	67
CC149373		<20	0.02	<10	<10	26	<10	42
CC149374		<20	0.01	<10	<10	26	<10	77
CC149375		<20	0.01	<10	<10	70	<10	92
CC149376		<20	0.01	<10	<10	164	<10	52
CC149377		<20	0.02	<10	<10	149	<10	64
CC149378		<20	0.01	<10	<10	198	<10	61
CC149379		<20	0.03	<10	<10	99	<10	43
CC149380		<20	0.01	<10	<10	67	<10	74
CC149381		<20	0.01	<10	<10	44	<10	73
CC149382		<20	0.01	<10	<10	109	<10	55
CC149383		<20	0.01	<10	<10	63	<10	48
CC149384		<20	0.03	<10	<10	106	<10	71
CC149385		<20	0.02	<10	<10	41	<10	38
CC149386		<20	0.01	<10	<10	54	<10	53
CC149387		<20	0.03	<10	<10	58	<10	57
CC149388		<20	0.04	<10	<10	70	<10	77
CC149389		<20	0.01	<10	<10	38	<10	48
CC149390		<20	0.01	<10	<10	17	<10	27
CC149001		<20	0.01	<10	<10	33	<10	23
CC149002		<20	0.01	<10	<10	27	<10	30
CC149003		<20	0.01	<10	<10	21	<10	24
CC149004		<20	0.01	<10	<10	15	<10	26
CC149005		<20	0.01	<10	<10	17	<10	54
CC149006		<20	0.01	<10	<10	28	<10	24
CC149007		<20	0.01	<10	<10	12	<10	14
CC149008		<20	0.01	<10	<10	13	<10	23



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149009		0.24	0.002	<0.2	1.22	10	<10	330	<0.5	<2	0.03	<0.5	8	15	17	1.97
CC149010		0.22	0.001	<0.2	0.70	7	<10	170	<0.5	<2	0.02	<0.5	3	3	12	1.33
CC149011		0.28	0.002	<0.2	1.09	2	<10	330	<0.5	<2	0.02	<0.5	11	16	18	2.03
CC149012		0.20	0.002	<0.2	1.08	7	<10	480	<0.5	<2	0.04	<0.5	5	13	23	2.20
CC149013		0.18	0.002	<0.2	0.76	3	<10	340	<0.5	<2	0.07	<0.5	5	10	12	1.25
CC149014		0.18	0.001	<0.2	0.44	2	<10	400	<0.5	<2	0.07	<0.5	3	6	33	1.31
CC149015		0.22	0.002	<0.2	0.94	6	<10	270	<0.5	<2	0.03	<0.5	5	13	17	1.84
CC149016		0.18	0.027	0.4	1.03	6	<10	610	<0.5	<2	0.72	<0.5	8	14	36	1.62
CC149017		0.20	0.009	0.6	0.78	4	<10	570	<0.5	<2	1.76	<0.5	6	11	45	1.54
CC149018		0.22	0.006	0.7	0.98	13	<10	780	0.6	<2	1.40	0.7	18	35	85	4.41
CC149019		0.18	0.005	1.1	0.89	3	<10	1110	<0.5	<2	1.60	<0.5	7	15	92	1.30
CC149020		0.14	0.008	0.6	1.22	5	<10	650	<0.5	<2	0.93	<0.5	10	36	42	2.44
CC149021		0.16	0.001	0.2	0.93	7	<10	670	<0.5	<2	1.41	0.5	13	29	42	2.04
CC149022		0.20	0.003	<0.2	1.54	102	<10	370	0.5	<2	0.20	<0.5	26	159	35	11.60
CC149023		0.18	0.001	0.3	2.23	2	<10	330	0.7	<2	0.56	0.5	11	36	43	3.12
CC149024		0.16	0.002	0.2	0.55	<2	<10	150	<0.5	<2	0.22	<0.5	4	6	14	0.59
CC149025		0.26	0.007	0.7	1.18	6	<10	680	0.5	<2	1.65	<0.5	9	53	66	1.94
CC149026		0.18	0.002	<0.2	1.25	6	<10	380	<0.5	<2	0.24	<0.5	11	25	35	2.33
CC149027		0.12	0.001	<0.2	2.17	27	<10	310	<0.5	<2	0.28	<0.5	24	70	55	6.96
CC149028		0.22	0.004	0.2	2.19	7	<10	980	0.6	<2	0.50	<0.5	14	36	46	2.84
CC149029		0.14	0.002	0.4	0.66	5	<10	250	<0.5	<2	0.06	<0.5	8	7	31	2.52
CC149030		0.16	0.001	0.8	0.53	2	<10	360	<0.5	<2	0.14	<0.5	2	5	8	0.47
CC149031		0.16	0.004	1.2	1.19	5	<10	730	0.5	<2	0.59	0.5	10	14	47	1.67
CC149032		0.22	0.004	0.8	0.97	4	<10	520	<0.5	<2	0.71	<0.5	7	14	21	1.58
CC149033		0.38	0.007	<0.2	1.17	7	<10	380	<0.5	<2	0.16	<0.5	9	16	35	2.14
CC149034		0.30	0.003	<0.2	1.37	7	<10	550	<0.5	<2	0.02	<0.5	7	17	26	2.20
CC149035		0.18	0.002	<0.2	1.10	5	<10	670	<0.5	<2	0.04	<0.5	4	13	25	1.37
CC149036		0.26	0.001	<0.2	0.59	5	<10	190	<0.5	<2	0.02	<0.5	6	9	19	1.32
CC149037		0.12	0.010	0.7	2.27	5	<10	2310	1.2	<2	0.29	<0.5	13	28	108	2.10
CC149038		0.20	0.003	0.2	0.78	5	<10	780	<0.5	<2	0.15	<0.5	8	11	40	1.45
CC149039		0.16	0.003	<0.2	0.61	4	<10	720	<0.5	<2	0.13	<0.5	6	18	20	1.90
CC149040		0.24	0.003	<0.2	0.91	5	<10	350	<0.5	<2	0.03	<0.5	4	11	8	1.61
CC149041		0.20	0.001	<0.2	0.53	4	<10	310	<0.5	<2	0.06	<0.5	10	6	37	1.45
CC149042		0.22	0.005	0.2	0.97	5	<10	580	<0.5	<2	0.87	0.6	8	15	37	1.67
CC149043		0.18	0.004	0.3	0.87	6	<10	390	<0.5	<2	0.94	<0.5	7	13	18	1.54
CC149044		0.20	0.005	0.3	0.91	7	<10	470	<0.5	<2	1.11	0.8	7	15	33	1.55
CC149045		0.22	0.022	1.2	0.77	9	<10	2180	<0.5	<2	2.13	0.5	14	24	112	1.71
CC149046		0.12	0.002	0.2	0.35	<2	<10	1240	<0.5	<2	0.38	<0.5	3	14	57	0.42
CC149047		0.18	0.002	0.2	1.06	10	<10	460	<0.5	<2	0.18	<0.5	20	267	22	2.54
CC149048		0.14	0.001	<0.2	0.35	4	<10	220	<0.5	<2	0.02	<0.5	4	8	14	0.84



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149009		<10	<1	0.04	20	0.18	380	1	<0.01	16	250	6	<0.01	<2	1	9
CC149010		<10	<1	0.05	50	0.17	182	1	<0.01	7	200	9	<0.01	<2	<1	8
CC149011		10	<1	0.07	20	0.14	2520	<1	<0.01	11	480	7	<0.01	<2	1	8
CC149012		10	<1	0.07	10	0.15	466	3	<0.01	13	410	10	<0.01	<2	1	10
CC149013		<10	<1	0.05	10	0.21	252	1	0.01	15	200	5	<0.01	<2	1	10
CC149014		<10	<1	0.02	10	0.02	148	1	0.01	14	160	2	0.01	<2	1	13
CC149015		<10	<1	0.06	20	0.28	293	2	<0.01	19	170	7	<0.01	<2	1	7
CC149016		<10	<1	0.07	10	0.33	587	1	0.01	24	470	8	0.03	<2	2	80
CC149017		<10	<1	0.08	10	0.27	164	1	0.01	21	790	7	0.11	<2	2	179
CC149018		<10	<1	0.06	10	0.20	2800	1	0.01	47	1100	8	0.13	2	6	139
CC149019		<10	<1	0.05	10	0.16	794	<1	0.02	28	1050	5	0.10	<2	2	131
CC149020		<10	<1	0.06	10	0.48	439	1	0.01	29	690	7	0.05	<2	3	74
CC149021		<10	1	0.04	<10	0.21	764	<1	0.02	26	750	3	0.06	<2	6	51
CC149022		<10	<1	0.04	<10	0.16	1500	<1	0.01	63	660	3	0.01	11	28	12
CC149023		10	<1	0.03	10	0.68	231	<1	0.02	26	170	7	0.01	<2	5	28
CC149024		<10	<1	0.02	<10	0.05	206	<1	0.02	7	260	2	0.01	<2	<1	15
CC149025		<10	<1	0.04	10	0.56	597	1	0.02	54	930	9	0.07	<2	8	64
CC149026		<10	<1	0.06	20	0.37	553	1	0.01	28	190	11	<0.01	<2	4	14
CC149027		10	1	0.06	<10	0.39	484	<1	0.01	48	520	3	0.01	2	12	13
CC149028		10	<1	0.05	10	0.45	1695	1	0.01	27	460	11	0.01	<2	7	27
CC149029		<10	<1	0.08	30	0.04	222	1	0.01	20	610	12	0.01	<2	1	13
CC149030		<10	<1	0.05	<10	0.06	75	<1	0.03	7	270	3	0.01	<2	<1	17
CC149031		10	<1	0.09	10	0.20	553	2	0.02	17	490	15	0.02	<2	2	67
CC149032		<10	1	0.06	10	0.38	380	1	0.01	23	270	6	0.04	<2	1	98
CC149033		<10	<1	0.07	20	0.33	496	1	<0.01	27	230	9	0.01	<2	1	26
CC149034		<10	<1	0.06	20	0.29	246	1	<0.01	24	180	6	<0.01	<2	1	7
CC149035		<10	<1	0.03	10	0.11	228	2	0.01	11	210	13	0.01	<2	2	13
CC149036		<10	<1	0.04	10	0.05	537	1	0.01	13	260	6	<0.01	<2	1	6
CC149037		10	<1	0.10	10	0.23	1335	2	0.02	30	600	26	0.02	<2	3	58
CC149038		<10	<1	0.06	10	0.24	333	1	0.01	21	170	5	0.01	<2	1	26
CC149039		<10	<1	0.06	10	0.06	313	1	0.01	17	130	11	<0.01	<2	1	21
CC149040		<10	<1	0.03	20	0.17	178	1	<0.01	13	110	5	<0.01	<2	1	7
CC149041		<10	<1	0.05	10	0.03	830	1	0.02	20	180	5	<0.01	<2	1	13
CC149042		<10	<1	0.09	10	0.38	364	1	0.01	24	600	13	0.08	<2	2	97
CC149043		<10	<1	0.07	10	0.34	437	2	0.01	17	730	12	0.05	<2	1	100
CC149044		<10	<1	0.08	10	0.36	492	1	0.01	27	790	12	0.06	<2	2	113
CC149045		<10	<1	0.04	10	0.40	5050	1	0.02	81	910	19	0.13	2	3	317
CC149046		<10	<1	0.03	<10	0.05	84	<1	0.03	49	490	<2	0.04	<2	1	64
CC149047		<10	<1	0.05	10	2.10	543	1	0.01	139	280	7	0.01	<2	2	21
CC149048		<10	<1	0.04	10	0.02	436	<1	0.02	10	170	3	0.01	<2	<1	8



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CERTIFICATE OF ANALYSIS WH11141109

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149009		<20	0.01	<10	<10	36	<10	56
CC149010		<20	<0.01	<10	<10	10	<10	35
CC149011		<20	0.01	<10	<10	34	<10	57
CC149012		<20	0.01	<10	<10	56	<10	43
CC149013		<20	0.01	<10	<10	20	<10	37
CC149014		<20	0.02	<10	<10	37	<10	32
CC149015		<20	0.01	<10	<10	26	<10	58
CC149016		<20	0.01	<10	<10	24	<10	53
CC149017		<20	0.01	<10	<10	14	<10	68
CC149018		<20	0.01	<10	<10	52	<10	67
CC149019		<20	0.02	<10	<10	23	<10	31
CC149020		<20	0.01	<10	<10	49	<10	54
CC149021		<20	0.01	<10	<10	46	<10	27
CC149022		<20	0.01	<10	<10	275	<10	84
CC149023		<20	0.18	<10	<10	83	<10	101
CC149024		<20	0.02	<10	<10	17	<10	13
CC149025		<20	0.01	<10	<10	33	<10	47
CC149026		<20	0.01	<10	<10	42	<10	60
CC149027		<20	0.01	<10	<10	140	<10	59
CC149028		<20	0.02	<10	<10	79	<10	47
CC149029		<20	0.01	<10	<10	25	<10	67
CC149030		<20	0.01	<10	<10	12	<10	21
CC149031		<20	0.01	<10	<10	41	<10	53
CC149032		<20	0.01	<10	<10	22	<10	47
CC149033		<20	<0.01	<10	<10	28	<10	72
CC149034		<20	0.01	<10	<10	29	<10	54
CC149035		<20	0.01	<10	<10	32	<10	31
CC149036		<20	0.01	<10	<10	25	<10	43
CC149037		<20	0.01	<10	<10	43	<10	88
CC149038		<20	<0.01	<10	<10	17	<10	47
CC149039		<20	0.02	<10	<10	31	<10	44
CC149040		<20	0.01	<10	<10	28	<10	35
CC149041		<20	0.01	<10	<10	18	<10	48
CC149042		<20	0.01	<10	<10	27	<10	97
CC149043		<20	0.01	<10	<10	26	<10	77
CC149044		<20	0.01	<10	<10	25	<10	102
CC149045		<20	0.01	<10	<10	14	<10	66
CC149046		<20	0.01	<10	<10	6	<10	8
CC149047		<20	0.02	<10	<10	41	<10	55
CC149048		<20	0.01	<10	<10	14	<10	20



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CERTIFICATE OF ANALYSIS WH11141109

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149049		0.14	0.002	0.2	0.59	<2	<10	600	<0.5	<2	0.09	<0.5	3	9	30	0.88
CC149050		0.18	0.002	<0.2	0.41	3	<10	380	<0.5	<2	0.10	<0.5	4	9	62	1.37
CC149051		0.24	0.002	<0.2	0.88	4	<10	640	<0.5	<2	0.06	<0.5	4	12	35	1.55
CC149052		0.34	0.002	<0.2	0.80	5	<10	250	<0.5	<2	0.02	<0.5	6	13	23	1.95
CC149053		0.22	0.002	0.5	1.19	4	<10	710	<0.5	<2	0.08	<0.5	5	13	34	1.57
CC149054		0.18	0.003	1.0	1.01	4	<10	600	<0.5	<2	0.09	<0.5	3	12	24	1.11
CC149055		0.14	0.003	0.3	1.22	6	<10	670	<0.5	<2	0.07	<0.5	8	20	19	2.49
CC149056		0.24	<0.001	0.2	0.70	3	<10	840	<0.5	<2	0.45	<0.5	8	14	15	1.63
CC149057		0.24	0.006	0.2	0.89	4	<10	320	<0.5	<2	0.04	<0.5	8	12	10	1.89
CC149058		0.20	0.001	<0.2	0.69	5	<10	270	<0.5	<2	0.04	<0.5	9	12	17	1.80
CC149059		0.24	0.003	0.4	0.84	5	<10	480	<0.5	<2	0.08	<0.5	9	13	24	1.75
CC149060		0.14	0.004	0.3	0.85	5	<10	620	<0.5	<2	0.14	0.7	14	20	35	2.22
CC149061		0.16	0.001	0.3	0.26	<2	<10	250	<0.5	<2	0.13	<0.5	3	8	16	0.69
CC149062		0.14	0.001	0.5	1.07	3	<10	750	<0.5	<2	0.26	0.6	10	26	48	2.16
CC149063		0.22	0.002	0.2	1.32	7	<10	550	<0.5	<2	1.00	<0.5	10	27	33	2.24
CC149064		0.12	0.003	0.6	1.12	4	<10	660	0.5	<2	0.67	<0.5	4	14	24	1.30
CC149065		0.30	0.002	0.4	1.54	6	<10	510	<0.5	<2	0.25	<0.5	5	60	25	1.96
CC149066		0.18	0.002	0.2	1.05	10	<10	370	<0.5	<2	0.43	0.9	13	110	29	3.54
CC149067		0.26	0.001	<0.2	1.28	5	<10	270	<0.5	<2	0.19	<0.5	11	75	9	2.49
CC149068		0.24	0.002	<0.2	1.57	15	<10	420	<0.5	<2	0.13	<0.5	14	109	24	4.43
CC149069		0.26	0.004	0.2	1.38	9	<10	980	0.8	<2	0.82	<0.5	13	37	61	2.45
CC149070		0.28	0.002	0.3	1.52	9	<10	730	0.6	<2	0.61	<0.5	10	23	34	2.45
CC149071		0.12	0.010	0.2	0.52	4	<10	140	<0.5	<2	0.12	<0.5	4	9	12	1.69
CC149072		0.18	0.001	<0.2	0.76	11	<10	310	<0.5	<2	0.30	<0.5	8	23	14	2.18
CC149073		0.20	0.002	<0.2	1.21	14	<10	670	<0.5	<2	0.21	<0.5	10	30	23	3.12
CC149074		0.18	0.006	<0.2	1.02	95	<10	570	<0.5	<2	0.19	<0.5	17	69	33	5.11
CC149075		0.20	0.004	0.3	1.63	12	<10	1290	0.5	<2	0.18	<0.5	9	25	51	2.62
CC149076		0.18	0.001	0.5	0.56	4	<10	400	<0.5	<2	0.04	<0.5	5	8	25	0.82
CC149077		0.22	0.002	1.1	0.93	8	<10	540	<0.5	<2	0.11	2.1	10	9	36	1.82
CC149078		0.20	0.003	<0.2	1.24	8	<10	1050	<0.5	<2	0.17	<0.5	8	19	27	1.89
CC149079		0.22	0.004	<0.2	1.16	7	<10	750	<0.5	<2	0.14	<0.5	9	21	19	2.15
CC149080		0.18	0.002	<0.2	0.51	7	<10	100	<0.5	<2	0.02	<0.5	5	9	16	1.39
CC149081		0.36	0.003	<0.2	0.78	8	<10	270	<0.5	<2	0.02	<0.5	6	11	26	1.70
CC149082		0.36	0.005	<0.2	1.05	10	<10	370	<0.5	<2	0.03	<0.5	9	15	51	2.08
CC149083		0.28	0.008	0.5	0.94	5	<10	1390	0.6	<2	2.09	<0.5	7	11	102	1.41
CC149084		0.20	0.004	0.3	0.93	6	<10	1500	<0.5	<2	1.64	<0.5	10	15	46	1.49
CC149085		0.16	0.002	<0.2	0.49	3	<10	610	<0.5	<2	0.99	<0.5	4	5	13	0.55
CC149086		0.28	0.003	<0.2	0.82	4	<10	740	<0.5	<2	0.16	<0.5	10	13	24	1.49
CC149087		0.22	0.001	<0.2	0.57	6	<10	250	<0.5	<2	0.02	<0.5	5	8	11	1.22
CC149088		0.18	0.002	<0.2	0.47	2	<10	430	<0.5	<2	0.02	<0.5	2	7	10	0.39



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CERTIFICATE OF ANALYSIS WH11141109

Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149049		<10	<1	0.06	<10	0.05	131	<1	0.02	10	390	6	0.01	<2	1	17
CC149050		<10	<1	0.07	10	0.04	192	1	0.01	27	290	8	0.01	<2	1	19
CC149051		<10	<1	0.09	20	0.10	198	1	0.01	14	280	9	<0.01	<2	1	13
CC149052		<10	<1	0.06	20	0.23	295	1	<0.01	20	180	6	<0.01	<2	1	7
CC149053		<10	<1	0.08	10	0.13	312	1	0.02	13	180	8	0.01	<2	1	14
CC149054		<10	<1	0.09	<10	0.08	111	1	0.03	13	580	6	0.02	<2	1	15
CC149055		10	<1	0.09	20	0.19	811	1	0.01	20	580	11	0.01	<2	2	12
CC149056		<10	<1	0.08	10	0.14	1005	1	0.01	13	460	7	0.03	<2	1	41
CC149057		<10	<1	0.07	10	0.13	1020	1	0.01	16	660	11	0.01	<2	1	9
CC149058		<10	<1	0.07	20	0.14	901	1	0.01	18	440	6	0.01	<2	1	10
CC149059		<10	<1	0.09	20	0.20	1410	1	0.01	24	410	6	0.01	<2	1	14
CC149060		10	<1	0.07	10	0.10	2250	1	0.01	23	940	9	0.02	<2	<1	22
CC149061		<10	<1	0.03	<10	0.03	196	<1	0.02	13	530	2	0.01	<2	<1	16
CC149062		<10	<1	0.06	10	0.22	1450	1	0.02	32	580	6	0.03	<2	3	26
CC149063		<10	<1	0.07	10	0.47	539	<1	0.02	25	350	7	0.03	<2	5	58
CC149064		<10	<1	0.08	10	0.15	171	1	0.04	20	610	4	0.03	<2	3	46
CC149065		<10	<1	0.06	10	0.47	116	1	0.02	34	270	8	0.01	<2	3	16
CC149066		<10	<1	0.07	<10	0.58	598	1	0.02	59	770	5	0.02	2	3	21
CC149067		<10	<1	0.04	10	0.49	247	1	0.01	36	140	3	<0.01	<2	2	11
CC149068		<10	<1	0.05	10	0.69	608	1	0.01	62	300	6	0.01	<2	5	12
CC149069		<10	<1	0.07	10	0.50	874	1	0.01	43	590	8	0.03	<2	7	46
CC149070		<10	<1	0.08	10	0.45	516	2	0.01	30	570	13	0.02	<2	4	37
CC149071		<10	<1	0.05	<10	0.08	198	<1	0.02	8	330	2	0.01	<2	1	11
CC149072		<10	<1	0.05	10	0.22	303	1	0.02	15	200	5	0.02	<2	3	17
CC149073		<10	<1	0.06	10	0.44	679	1	0.01	24	330	9	0.02	<2	5	12
CC149074		<10	<1	0.08	10	0.33	1440	2	0.01	38	370	8	0.02	4	13	14
CC149075		<10	<1	0.11	20	0.40	648	2	0.02	27	370	12	0.02	<2	3	17
CC149076		<10	<1	0.04	10	0.05	105	1	0.03	8	440	6	0.02	<2	1	10
CC149077		<10	<1	0.05	10	0.05	2570	2	0.03	18	830	7	0.02	<2	1	19
CC149078		<10	<1	0.08	20	0.34	474	1	0.02	22	160	11	0.02	<2	2	14
CC149079		<10	<1	0.12	20	0.33	693	1	0.01	21	370	10	0.01	<2	2	12
CC149080		<10	<1	0.05	20	0.14	161	1	0.01	14	140	6	0.01	<2	1	5
CC149081		<10	<1	0.06	20	0.20	176	1	0.01	19	170	8	0.01	<2	1	6
CC149082		<10	<1	0.09	20	0.32	456	2	0.01	27	270	11	0.01	<2	2	8
CC149083		<10	<1	0.05	10	0.29	540	1	0.03	27	850	7	0.10	<2	2	104
CC149084		<10	<1	0.07	10	0.38	767	1	0.02	28	540	13	0.08	<2	2	80
CC149085		<10	<1	0.03	<10	0.17	284	1	0.03	10	360	4	0.05	<2	1	53
CC149086		<10	<1	0.07	20	0.28	363	1	0.01	20	200	8	0.02	<2	2	14
CC149087		<10	<1	0.04	20	0.11	248	1	0.01	10	150	4	0.01	<2	1	6
CC149088		<10	<1	0.06	10	0.03	38	<1	0.03	4	430	4	0.02	<2	1	8



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CERTIFICATE OF ANALYSIS WH11141109

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149049		<20	0.01	<10	<10	16	<10	22
CC149050		<20	0.01	<10	<10	20	<10	56
CC149051		<20	0.01	<10	<10	31	<10	31
CC149052		<20	0.01	<10	<10	21	<10	46
CC149053		<20	0.01	<10	<10	33	<10	29
CC149054		<20	0.01	<10	<10	26	<10	30
CC149055		<20	0.01	<10	<10	47	<10	80
CC149056		<20	0.02	<10	<10	34	<10	36
CC149057		<20	0.01	<10	<10	34	<10	112
CC149058		<20	0.01	<10	<10	29	<10	45
CC149059		<20	0.01	<10	<10	28	<10	57
CC149060		<20	0.01	<10	<10	37	<10	103
CC149061		<20	0.01	<10	<10	17	<10	16
CC149062		<20	0.02	<10	<10	47	<10	33
CC149063		<20	0.01	<10	<10	44	<10	46
CC149064		<20	0.01	<10	<10	27	<10	44
CC149065		<20	0.02	<10	<10	49	<10	24
CC149066		<20	0.02	<10	<10	59	<10	59
CC149067		<20	0.04	<10	<10	67	<10	39
CC149068		<20	0.02	<10	<10	90	<10	61
CC149069		<20	0.01	<10	<10	42	<10	76
CC149070		<20	0.01	<10	<10	46	<10	80
CC149071		<20	0.01	<10	<10	33	<10	35
CC149072		<20	0.01	<10	<10	41	<10	25
CC149073		<20	0.01	<10	<10	52	<10	46
CC149074		<20	0.01	<10	<10	135	<10	64
CC149075		<20	0.01	<10	<10	49	<10	78
CC149076		<20	0.01	<10	<10	24	<10	25
CC149077		<20	0.02	<10	<10	27	<10	85
CC149078		<20	0.01	<10	<10	31	<10	56
CC149079		<20	0.01	<10	<10	41	<10	53
CC149080		<20	0.01	<10	<10	21	<10	33
CC149081		<20	<0.01	<10	<10	21	<10	43
CC149082		<20	<0.01	<10	<10	24	<10	66
CC149083		<20	0.01	<10	<10	15	<10	25
CC149084		<20	0.01	<10	<10	22	<10	44
CC149085		<20	0.01	<10	<10	8	<10	16
CC149086		<20	0.01	<10	<10	19	<10	44
CC149087		<20	0.01	<10	<10	17	<10	26
CC149088		<20	0.01	<10	<10	14	<10	13



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149089		0.12	0.002	<0.2	0.46	9	<10	130	<0.5	<2	0.02	<0.5	6	8	16	1.58
CC149090		0.24	0.004	0.4	0.79	6	<10	1060	<0.5	<2	0.24	<0.5	4	10	78	1.03
CC149091		0.26	0.003	<0.2	0.59	12	<10	160	<0.5	<2	0.02	<0.5	7	12	22	1.92
CC149092		0.14	0.012	<0.2	1.57	393	<10	730	0.7	<2	0.53	<0.5	50	275	45	4.77
CC149093		0.18	0.016	<0.2	0.95	334	<10	930	0.6	<2	0.89	<0.5	55	353	39	4.59
CC149094		0.22	0.016	0.2	0.85	90	<10	790	<0.5	<2	1.60	<0.5	29	307	42	2.39
CC149095		0.14	0.006	<0.2	1.38	17	<10	1540	0.7	<2	0.90	0.6	16	56	51	1.69
CC149096		0.20	0.003	0.2	0.95	10	<10	720	<0.5	<2	0.10	<0.5	13	21	25	1.89
CC149097		0.22	0.002	0.2	0.68	4	<10	410	<0.5	<2	0.08	<0.5	3	11	13	0.95
CC149098		0.22	<0.001	<0.2	0.33	2	<10	220	<0.5	<2	0.12	<0.5	2	4	8	0.40
CC149099		0.20	0.004	<0.2	0.78	7	<10	380	<0.5	<2	0.03	<0.5	6	11	21	1.54
CC149100		0.26	0.003	<0.2	0.98	9	<10	420	<0.5	<2	0.04	<0.5	6	13	19	1.96
CC49141		0.16	0.012	<0.2	0.77	3	<10	960	<0.5	<2	0.22	0.6	10	11	12	1.73
CC49142		0.32	0.003	0.2	1.32	4	<10	560	<0.5	<2	0.05	<0.5	5	17	15	1.91
CC49143		0.36	0.007	<0.2	0.92	10	<10	270	<0.5	<2	0.03	<0.5	6	13	16	2.00
CC49144		0.28	0.003	<0.2	0.75	4	<10	450	<0.5	<2	0.06	<0.5	8	12	13	1.61
CC49145		0.18	0.002	<0.2	1.15	4	<10	510	<0.5	<2	0.06	<0.5	10	14	10	1.79
CC49146		0.24	0.001	<0.2	1.34	10	<10	750	<0.5	<2	0.19	<0.5	12	34	22	2.96
CC49147		0.42	0.002	<0.2	1.79	8	<10	920	0.5	<2	0.17	<0.5	11	37	24	3.15
CC49148		0.36	0.002	<0.2	1.79	8	<10	400	0.5	<2	0.09	<0.5	8	36	30	2.51
CC49149		0.28	0.001	<0.2	0.78	7	<10	320	<0.5	<2	0.12	<0.5	6	18	18	1.52
CC49150		0.32	<0.001	<0.2	1.02	7	<10	260	<0.5	<2	0.08	<0.5	7	28	17	1.77
CC49151		0.24	0.001	<0.2	1.58	7	<10	730	<0.5	<2	0.25	<0.5	10	34	30	2.64
CC49152		0.26	0.002	<0.2	1.50	10	<10	360	0.5	<2	0.13	<0.5	10	40	31	2.74
CC49153		0.34	0.009	0.4	1.29	26	<10	470	<0.5	<2	1.27	<0.5	15	82	50	3.11
CC49154		0.38	0.004	0.2	1.19	10	<10	510	<0.5	<2	0.40	<0.5	13	38	37	2.46
CC49155		0.32	0.001	<0.2	1.11	8	<10	340	<0.5	<2	0.31	<0.5	14	34	15	2.67
CC49156		0.18	0.009	0.2	1.51	11	<10	790	<0.5	<2	0.41	<0.5	16	38	32	3.45
CC49157		0.28	0.001	<0.2	1.21	6	<10	610	<0.5	<2	0.19	<0.5	8	18	14	1.86
CC49158		0.38	0.002	<0.2	1.07	9	<10	420	<0.5	<2	0.05	<0.5	9	18	26	2.17
CC49159		0.32	0.007	<0.2	1.25	7	<10	760	0.5	<2	0.31	<0.5	11	19	30	2.30
CC49160		0.40	0.015	0.3	0.94	25	<10	930	0.9	2	1.28	0.8	39	96	101	9.89
CC49161		0.30	0.005	<0.2	1.40	12	<10	830	0.7	<2	0.23	<0.5	11	23	42	2.49
CC49162		0.28	0.002	<0.2	1.07	8	<10	540	<0.5	<2	0.06	<0.5	8	15	24	1.87
CC49163		0.48	0.005	<0.2	1.32	11	<10	410	<0.5	<2	0.03	<0.5	8	16	41	2.14
CC49164		0.34	0.004	<0.2	0.93	8	<10	700	<0.5	<2	0.08	<0.5	9	14	37	1.97
CC49165		0.24	0.003	<0.2	0.86	8	<10	800	<0.5	<2	0.09	<0.5	6	13	23	1.57
CC49166		0.18	0.022	1.2	2.06	6	<10	2130	0.8	<2	0.12	0.5	3	21	65	1.43
CC49167		0.32	0.003	<0.2	0.66	6	<10	500	<0.5	<2	0.26	<0.5	8	13	19	1.41
CC49168		0.34	0.013	0.2	1.00	11	<10	830	<0.5	<2	0.38	<0.5	11	15	62	1.85



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CERTIFICATE OF ANALYSIS WH11141109

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149089		<10	<1	0.06	20	0.10	302	1	0.01	12	260	7	0.01	<2	1	6
CC149090		<10	<1	0.08	20	0.12	133	1	0.02	17	190	12	0.02	<2	2	25
CC149091		<10	<1	0.05	20	0.09	247	1	0.01	15	170	7	0.01	<2	1	7
CC149092		10	<1	0.08	10	0.40	1215	1	0.03	675	250	10	0.03	98	7	40
CC149093		<10	1	0.07	10	0.67	1135	1	0.02	916	440	9	0.05	80	9	61
CC149094		<10	1	0.09	10	1.33	341	<1	0.02	782	410	5	0.10	8	7	86
CC149095		<10	<1	0.07	10	0.22	1020	1	0.03	132	610	9	0.06	3	5	72
CC149096		10	<1	0.13	10	0.11	1305	1	0.03	22	570	11	0.02	<2	2	12
CC149097		<10	<1	0.06	10	0.18	93	1	0.02	11	350	6	0.02	<2	1	10
CC149098		<10	<1	0.04	10	0.04	53	<1	0.03	4	190	3	0.02	<2	<1	11
CC149099		<10	<1	0.04	20	0.19	302	1	0.01	16	150	5	0.01	<2	1	6
CC149100		<10	<1	0.05	20	0.20	211	1	0.01	17	180	8	0.01	<2	1	7
CC49141		<10	<1	0.08	10	0.16	1055	1	0.03	10	340	6	0.02	<2	2	25
CC49142		<10	<1	0.07	20	0.28	337	1	0.01	16	180	10	0.01	<2	2	9
CC49143		<10	<1	0.08	20	0.24	304	1	0.01	18	300	8	0.01	<2	1	8
CC49144		<10	<1	0.07	20	0.13	598	1	0.01	13	760	8	0.02	<2	1	11
CC49145		<10	<1	0.06	20	0.21	2450	1	0.01	23	400	10	0.02	<2	2	12
CC49146		<10	<1	0.08	10	0.43	541	1	0.01	28	250	6	0.02	2	3	15
CC49147		10	<1	0.08	20	0.59	396	1	0.01	29	190	9	0.01	<2	4	11
CC49148		10	<1	0.06	10	0.37	246	1	0.01	20	270	7	0.02	2	3	8
CC49149		<10	<1	0.06	10	0.24	206	1	0.01	16	190	6	0.02	<2	2	10
CC49150		<10	<1	0.05	20	0.27	226	1	0.01	22	180	9	0.01	<2	2	8
CC49151		10	<1	0.10	10	0.34	570	2	0.02	29	350	10	0.02	<2	4	17
CC49152		<10	<1	0.09	20	0.56	384	2	0.01	38	230	16	0.01	<2	3	10
CC49153		<10	<1	0.06	10	0.82	485	1	0.02	147	780	7	0.08	3	12	70
CC49154		<10	<1	0.06	10	0.53	634	1	0.01	42	440	10	0.02	<2	6	22
CC49155		<10	<1	0.06	10	0.60	683	1	0.01	25	210	7	0.02	<2	3	13
CC49156		10	<1	0.07	10	0.62	1115	1	0.01	30	500	8	0.03	<2	5	22
CC49157		<10	<1	0.05	10	0.22	770	1	0.02	12	230	9	0.02	<2	2	12
CC49158		<10	<1	0.05	20	0.32	255	1	0.01	23	160	9	0.01	<2	2	7
CC49159		<10	<1	0.11	20	0.45	354	1	0.01	30	200	16	0.02	<2	4	19
CC49160		<10	<1	0.04	10	0.31	2270	<1	0.01	78	1120	5	0.07	6	37	63
CC49161		<10	<1	0.09	20	0.50	565	2	0.01	33	200	15	0.02	<2	3	14
CC49162		<10	<1	0.07	20	0.32	274	1	0.01	23	100	7	0.01	<2	1	7
CC49163		<10	1	0.07	20	0.27	298	1	0.01	25	140	10	0.01	<2	2	7
CC49164		<10	<1	0.06	20	0.31	474	1	0.01	24	220	10	0.01	<2	1	9
CC49165		<10	<1	0.05	20	0.29	342	1	0.01	18	200	9	0.01	<2	1	10
CC49166		<10	<1	0.16	10	0.11	39	<1	0.03	17	2020	13	0.10	<2	3	18
CC49167		<10	<1	0.04	10	0.28	143	1	0.01	17	460	9	0.02	<2	1	20
CC49168		<10	<1	0.09	10	0.33	682	1	0.01	30	400	8	0.03	<2	5	22



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CERTIFICATE OF ANALYSIS WH11141109

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149089		<20	0.01	<10	<10	24	<10	40
CC149090		<20	0.01	<10	<10	19	<10	28
CC149091		<20	0.01	<10	<10	20	<10	49
CC149092		<20	0.01	<10	<10	48	<10	53
CC149093		<20	0.01	<10	<10	40	<10	50
CC149094		<20	<0.01	<10	<10	26	<10	26
CC149095		<20	0.01	<10	<10	31	<10	44
CC149096		<20	0.01	<10	<10	50	<10	40
CC149097		<20	0.01	<10	<10	17	<10	23
CC149098		<20	0.01	<10	<10	11	<10	10
CC149099		<20	0.01	<10	<10	21	<10	38
CC149100		<20	0.01	<10	<10	26	<10	44
CC49141		<20	0.05	<10	<10	34	<10	47
CC49142		<20	0.01	<10	<10	40	<10	49
CC49143		<20	0.01	<10	<10	32	<10	56
CC49144		<20	0.01	<10	<10	26	<10	101
CC49145		<20	0.01	<10	<10	36	<10	121
CC49146		<20	0.02	<10	<10	63	<10	61
CC49147		<20	0.01	<10	<10	63	<10	66
CC49148		<20	0.01	<10	<10	65	<10	52
CC49149		<20	0.01	<10	<10	33	<10	38
CC49150		<20	0.01	<10	<10	45	<10	49
CC49151		<20	0.01	<10	<10	69	<10	50
CC49152		<20	0.01	<10	<10	48	<10	96
CC49153		<20	0.01	<10	<10	46	<10	56
CC49154		<20	0.01	<10	<10	40	<10	60
CC49155		<20	0.03	<10	<10	53	<10	49
CC49156		<20	0.02	<10	<10	69	<10	65
CC49157		<20	0.02	<10	<10	47	<10	43
CC49158		<20	0.01	<10	<10	30	<10	53
CC49159		<20	0.01	<10	<10	31	<10	68
CC49160		<20	0.01	<10	<10	219	<10	85
CC49161		<20	0.01	<10	<10	39	<10	78
CC49162		<20	<0.01	<10	<10	20	<10	62
CC49163		<20	0.01	<10	<10	28	<10	58
CC49164		<20	<0.01	<10	<10	21	<10	56
CC49165		<20	0.01	<10	<10	20	<10	37
CC49166		<20	<0.01	<10	<10	34	<10	27
CC49167		<20	0.01	<10	<10	17	<10	38
CC49168		<20	0.01	<10	<10	23	<10	63



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CERTIFICATE OF ANALYSIS WH11141109

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC49169		0.18	0.002	<0.2	0.57	8	<10	390	<0.5	<2	0.03	<0.5	5	8	9	1.08
CC49170		0.28	0.016	<0.2	0.74	7	<10	380	<0.5	<2	0.05	<0.5	6	12	14	1.91
CC49171		0.34	0.012	<0.2	0.89	9	<10	1350	<0.5	<2	0.07	<0.5	8	13	28	1.82
CC49172		0.26	0.008	<0.2	0.60	7	<10	510	<0.5	<2	0.09	<0.5	5	9	9	1.22
CC49173		0.30	0.015	0.5	1.39	15	<10	1030	0.5	<2	0.14	0.5	14	35	75	2.83
CC49174		0.26	0.015	<0.2	0.77	12	<10	1000	<0.5	<2	0.15	<0.5	8	15	52	2.03
CC49175		0.24	0.005	<0.2	0.81	12	<10	440	<0.5	<2	0.05	<0.5	8	71	22	2.21
CC49176		0.22	0.007	<0.2	0.28	50	<10	120	<0.5	<2	0.01	<0.5	11	7	53	3.33
CC49177		0.40	0.006	0.3	1.05	21	<10	440	0.5	<2	0.92	0.9	13	25	40	2.41
CC49178		0.28	0.007	0.2	0.83	14	<10	730	<0.5	<2	0.94	<0.5	12	46	27	1.84
CC49179		0.20	0.007	<0.2	2.19	15	<10	400	<0.5	<2	0.69	<0.5	61	643	33	4.68
CC49180		0.44	0.011	0.3	0.95	18	<10	850	0.5	<2	0.79	<0.5	10	24	72	2.12
CC49181		0.18	0.038	0.2	0.85	8	<10	1070	<0.5	<2	0.99	0.5	10	28	40	1.48
CC49182		0.34	0.006	0.2	0.86	7	<10	1150	<0.5	<2	0.33	<0.5	13	39	49	1.73
CC49183		0.34	0.003	<0.2	0.71	8	<10	890	<0.5	<2	0.17	<0.5	9	32	31	1.54
CC49184		0.36	0.004	<0.2	0.67	6	<10	880	<0.5	<2	0.18	<0.5	11	32	35	1.60
CC49185		0.26	0.001	<0.2	0.90	5	<10	1090	<0.5	<2	0.06	<0.5	7	23	21	1.56
CC49186		0.26	0.010	<0.2	1.02	731	<10	520	0.5	<2	0.42	<0.5	103	527	29	10.80
CC49187		0.26	0.002	<0.2	1.32	10	<10	730	<0.5	<2	0.06	<0.5	9	23	35	2.86
CC49188		0.34	0.005	<0.2	1.08	7	<10	730	<0.5	<2	0.07	<0.5	9	18	41	2.11
CC49189		0.24	0.002	<0.2	0.40	4	<10	110	<0.5	<2	0.05	<0.5	3	10	6	0.83
CC49190		0.24	<0.001	<0.2	0.61	4	<10	350	<0.5	<2	0.22	<0.5	5	10	15	1.25
CC49191		0.30	0.001	<0.2	1.23	6	<10	850	<0.5	<2	0.10	<0.5	5	19	20	1.82
CC49192		0.20	0.001	<0.2	1.59	6	<10	580	<0.5	<2	0.21	<0.5	8	29	23	2.65
CC49193		0.30	0.002	<0.2	1.05	6	<10	420	<0.5	<2	0.07	<0.5	6	15	11	2.01
CC49194		0.30	0.008	<0.2	0.94	6	<10	200	<0.5	<2	0.03	<0.5	6	14	13	1.96
CC49195		0.36	0.003	<0.2	0.79	5	<10	350	<0.5	<2	0.21	<0.5	7	36	25	1.79
CC49196		0.34	0.003	<0.2	1.67	11	<10	500	<0.5	<2	0.20	<0.5	12	44	24	3.16
CC49197		0.22	0.003	0.2	1.88	10	<10	590	<0.5	<2	0.33	<0.5	16	67	22	4.20
CC49198		0.16	0.004	<0.2	3.41	25	<10	370	0.5	<2	0.31	<0.5	46	569	33	6.36
CC49199		0.20	0.002	<0.2	1.35	20	<10	620	<0.5	<2	0.85	<0.5	17	64	37	4.30
CC49200		0.24	0.006	<0.2	1.52	24	<10	660	<0.5	<2	0.47	<0.5	20	102	44	3.84
CC49201		0.12	0.004	<0.2	0.62	3	<10	190	<0.5	<2	0.04	<0.5	9	19	22	2.70
CC49202		0.22	0.004	<0.2	0.44	7	<10	340	<0.5	<2	0.02	<0.5	6	9	23	1.51
CC49203		0.26	0.002	<0.2	0.99	9	<10	660	<0.5	<2	0.05	<0.5	9	59	26	2.30
CC49204		0.18	0.003	0.2	0.89	2	<10	1240	<0.5	<2	0.22	<0.5	2	16	88	0.76
CC49205		0.16	0.002	<0.2	0.61	3	<10	450	<0.5	<2	0.06	<0.5	3	8	24	0.88
CC49206		0.12	0.015	<0.2	0.41	3	<10	310	<0.5	<2	0.04	<0.5	6	7	28	1.23
CC49207		0.16	0.014	0.9	2.80	3	<10	2880	1.7	<2	0.29	<0.5	15	27	382	2.34
CC49208		0.22	0.004	0.6	1.95	10	<10	1520	0.7	<2	0.30	<0.5	15	31	140	3.00



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CERTIFICATE OF ANALYSIS WH11141109

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC49169		<10	<1	0.04	20	0.16	215	1	0.01	11	100	5	0.02	<2	1	7
CC49170		<10	<1	0.06	20	0.18	394	1	0.01	15	140	6	0.01	<2	1	8
CC49171		<10	<1	0.07	20	0.23	338	1	0.01	23	170	9	0.02	<2	2	9
CC49172		<10	<1	0.06	20	0.19	318	1	0.01	11	160	7	0.01	<2	1	10
CC49173		10	<1	0.12	10	0.16	1395	1	0.01	24	220	45	0.02	3	4	18
CC49174		<10	<1	0.08	10	0.24	475	1	0.01	25	330	13	0.02	<2	2	17
CC49175		<10	<1	0.04	20	0.33	297	1	0.01	37	130	10	0.02	2	1	9
CC49176		<10	<1	0.06	30	0.02	360	2	0.01	27	450	18	0.04	10	1	30
CC49177		<10	<1	0.17	20	0.73	422	4	0.02	208	910	17	0.02	2	3	40
CC49178		<10	<1	0.07	10	0.66	944	1	0.02	69	440	11	0.05	<2	2	54
CC49179		10	<1	0.03	10	12.05	1475	<1	0.01	992	280	6	0.03	4	13	43
CC49180		<10	<1	0.10	10	0.37	461	1	0.02	60	610	14	0.05	3	3	55
CC49181		<10	<1	0.09	10	0.37	739	1	0.02	71	660	9	0.07	<2	2	58
CC49182		<10	<1	0.09	10	0.40	857	1	0.01	47	370	11	0.03	<2	3	28
CC49183		<10	<1	0.06	10	0.36	301	1	0.01	37	290	9	0.02	<2	2	17
CC49184		<10	<1	0.05	10	0.35	486	1	<0.01	45	330	7	0.01	<2	2	15
CC49185		<10	<1	0.05	20	0.29	289	1	<0.01	50	80	5	0.01	<2	1	8
CC49186		10	1	0.02	<10	7.07	1960	<1	0.01	1265	240	3	0.03	159	15	36
CC49187		<10	<1	0.08	20	0.31	401	1	<0.01	31	120	9	0.01	<2	2	6
CC49188		<10	<1	0.08	20	0.31	391	1	<0.01	28	230	8	0.01	<2	2	8
CC49189		<10	<1	0.03	<10	0.11	131	<1	0.02	6	130	<2	0.01	<2	1	4
CC49190		<10	<1	0.06	10	0.18	258	1	0.01	12	180	6	0.02	<2	1	11
CC49191		<10	<1	0.05	20	0.27	303	1	<0.01	19	120	7	0.01	<2	2	6
CC49192		<10	<1	0.06	20	0.61	315	1	0.01	24	130	4	0.02	<2	3	9
CC49193		<10	<1	0.07	20	0.25	561	1	<0.01	16	180	7	0.01	<2	1	7
CC49194		<10	<1	0.06	20	0.30	375	1	<0.01	18	210	6	0.01	<2	1	3
CC49195		<10	<1	0.06	20	0.49	261	1	<0.01	37	560	9	0.02	<2	2	21
CC49196		<10	<1	0.05	10	0.66	395	1	<0.01	34	120	6	0.01	<2	4	12
CC49197		10	<1	0.08	10	0.89	608	1	0.01	37	400	3	0.02	<2	5	15
CC49198		10	<1	0.05	10	4.02	1530	<1	0.01	338	510	4	0.03	<2	13	16
CC49199		<10	<1	0.05	10	0.40	1120	1	0.01	92	440	5	0.03	3	9	49
CC49200		<10	<1	0.08	10	0.90	979	1	0.01	83	330	10	0.02	3	9	31
CC49201		<10	<1	0.08	20	0.05	188	1	<0.01	24	280	11	0.01	<2	1	5
CC49202		<10	<1	0.05	20	0.04	411	2	0.01	13	190	4	0.01	<2	1	4
CC49203		<10	<1	0.06	20	0.43	456	1	<0.01	35	140	7	0.01	<2	1	7
CC49204		<10	<1	0.10	10	0.09	140	<1	0.01	10	220	9	0.02	<2	2	34
CC49205		<10	<1	0.04	20	0.14	136	1	0.01	12	100	5	0.01	<2	1	10
CC49206		<10	<1	0.05	20	0.08	567	2	0.01	14	230	15	0.02	<2	1	8
CC49207		10	<1	0.11	10	0.20	1825	2	0.02	35	590	12	0.03	<2	6	48
CC49208		10	<1	0.14	20	0.32	1140	2	0.01	24	390	25	0.02	<2	3	37



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Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC49169		<20	<0.01	<10	<10	15	<10	27
CC49170		<20	0.01	<10	<10	25	<10	37
CC49171		<20	<0.01	<10	<10	21	<10	51
CC49172		<20	0.01	<10	<10	19	<10	31
CC49173		<20	0.01	<10	<10	47	<10	106
CC49174		<20	0.01	<10	<10	22	<10	49
CC49175		<20	0.01	<10	<10	29	<10	42
CC49176		<20	<0.01	<10	<10	14	<10	93
CC49177		<20	0.01	<10	<10	39	<10	141
CC49178		<20	0.01	<10	<10	21	<10	62
CC49179		<20	0.02	<10	<10	91	<10	39
CC49180		<20	0.01	<10	<10	24	<10	81
CC49181		<20	<0.01	<10	<10	18	<10	88
CC49182		<20	0.01	<10	<10	22	<10	58
CC49183		<20	0.01	<10	<10	17	<10	45
CC49184		<20	0.01	<10	<10	17	<10	46
CC49185		<20	<0.01	<10	<10	22	<10	39
CC49186		<20	0.01	<10	<10	59	<10	81
CC49187		<20	<0.01	<10	<10	34	<10	54
CC49188		<20	<0.01	<10	<10	23	<10	58
CC49189		<20	0.02	<10	<10	17	<10	14
CC49190		<20	0.01	<10	<10	20	<10	29
CC49191		<20	0.01	<10	<10	32	<10	41
CC49192		<20	0.02	<10	<10	56	<10	51
CC49193		<20	0.01	<10	<10	33	<10	67
CC49194		<20	0.01	<10	<10	27	<10	47
CC49195		<20	0.01	<10	<10	24	<10	58
CC49196		<20	0.01	<10	<10	62	<10	58
CC49197		<20	0.01	<10	<10	108	<10	64
CC49198		<20	0.02	<10	<10	93	<10	76
CC49199		<20	0.01	<10	<10	71	<10	46
CC49200		<20	0.01	<10	<10	63	<10	72
CC49201		<20	0.02	<10	<10	37	<10	78
CC49202		<20	0.01	<10	<10	20	<10	48
CC49203		<20	0.01	<10	<10	28	<10	52
CC49204		<20	<0.01	<10	<10	17	<10	24
CC49205		<20	0.01	<10	<10	16	<10	23
CC49206		<20	0.01	<10	<10	23	<10	27
CC49207		<20	0.01	<10	<10	43	<10	56
CC49208		<20	0.01	<10	<10	62	<10	64



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CERTIFICATE OF ANALYSIS WH11141109

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC49209		0.20	0.028	0.2	0.50	5	<10	280	<0.5	<2	0.03	<0.5	3	7	9	1.04
CC49210		0.20	0.004	0.4	0.85	2	<10	430	<0.5	<2	0.07	<0.5	5	10	10	1.19
CC49211		0.18	0.001	<0.2	0.79	5	<10	180	<0.5	<2	0.02	<0.5	3	9	7	1.39
CC49212		0.44	0.003	<0.2	0.91	9	<10	230	<0.5	<2	0.03	<0.5	4	14	11	2.03
CC49213		0.24	0.002	<0.2	1.03	9	<10	490	<0.5	<2	0.03	<0.5	5	16	11	1.88
CC49214		0.18	0.006	<0.2	1.36	5	<10	550	<0.5	<2	0.09	<0.5	6	20	18	1.94
CC49215		0.14	0.003	0.2	0.98	5	<10	620	<0.5	<2	0.15	<0.5	8	17	33	1.68
CC49216		0.24	0.006	0.6	1.53	6	<10	1110	0.7	<2	0.24	<0.5	8	23	60	2.39
CC49217		0.28	0.004	<0.2	1.76	12	<10	470	<0.5	<2	0.28	<0.5	15	67	32	4.28
CC49218		0.22	0.002	<0.2	0.99	11	<10	510	<0.5	<2	0.82	<0.5	9	27	20	2.16
CC49219		0.10	0.002	<0.2	1.48	7	<10	480	<0.5	<2	0.13	<0.5	10	47	17	2.71
CC49220		0.16	0.005	0.4	1.03	5	<10	310	<0.5	<2	8.0	<0.5	9	28	28	2.18



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CERTIFICATE OF ANALYSIS WH11141109

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
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
CC49209		<10	<1	0.05	20	0.12	193	1	<0.01	10	140	5	0.02	<2	1
CC49210		<10	<1	0.06	20	0.17	238	1	0.01	12	170	6	0.01	<2	1
CC49211		<10	<1	0.04	20	0.14	314	1	0.01	9	200	4	0.01	<2	1
CC49212		<10	<1	0.07	20	0.25	314	1	<0.01	16	340	7	0.01	<2	1
CC49213		<10	<1	0.05	20	0.28	328	1	<0.01	16	160	7	0.01	<2	1
CC49214		10	<1	0.07	20	0.35	363	1	<0.01	18	270	9	0.02	<2	2
CC49215		<10	<1	0.11	10	0.22	1110	1	0.01	18	890	8	0.04	<2	1
CC49216		<10	<1	0.08	30	0.42	418	1	<0.01	32	810	11	0.02	<2	4
CC49217		10	<1	0.06	10	0.65	780	2	0.01	40	280	8	0.02	<2	6
CC49218		<10	<1	0.06	10	0.41	439	<1	0.01	22	360	5	0.04	<2	4
CC49219		<10	<1	0.05	10	0.53	398	1	<0.01	25	180	5	0.02	<2	4
CC49220		<10	<1	0.05	10	0.64	399	<1	0.01	26	710	8	0.06	<2	10



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CERTIFICATE OF ANALYSIS WH11141109

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 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC49209		<20	0.01	<10	<10	17	<10	23
CC49210		<20	0.01	<10	<10	23	<10	32
CC49211		<20	0.01	<10	<10	27	<10	32
CC49212		<20	0.01	<10	<10	29	<10	47
CC49213		<20	0.01	<10	<10	33	<10	50
CC49214		<20	0.01	<10	<10	42	<10	49
CC49215		<20	0.01	<10	<10	29	<10	52
CC49216		<20	0.01	<10	<10	34	<10	70
CC49217		<20	0.03	<10	<10	98	<10	68
CC49218		<20	0.01	<10	<10	38	<10	42
CC49219		<20	0.01	<10	<10	56	<10	50
CC49220		<20	0.01	<10	<10	34	<10	47



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P.O. No.:

This report is for 200 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
EXTRA- 01	Extra Sample received in Shipment
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: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
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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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149221		0.36	0.002	0.3	1.36	9	<10	590	0.6	<2	0.33	<0.5	16	33	51	3.13
CC149222		0.34	0.005	0.2	1.56	17	<10	670	0.6	<2	0.51	<0.5	18	55	57	3.73
CC149223		0.14	<0.001	<0.2	1.12	2	<10	120	<0.5	<2	0.21	<0.5	7	86	8	1.37
CC149224		0.26	0.001	<0.2	1.94	16	<10	420	<0.5	<2	0.13	<0.5	14	69	25	3.57
CC149225		0.14	0.005	0.3	2.53	12	<10	1030	1.0	<2	0.32	<0.5	18	100	60	3.76
CC149226		0.14	<0.001	0.2	1.68	12	<10	680	<0.5	<2	0.30	<0.5	10	31	29	3.10
CC149227		0.20	<0.001	<0.2	1.20	3	<10	420	<0.5	<2	0.11	<0.5	6	19	18	1.67
CC149228		0.18	<0.001	<0.2	1.48	6	<10	330	<0.5	<2	0.15	<0.5	8	27	21	3.01
CC149229		0.24	<0.001	<0.2	1.84	14	<10	700	0.5	<2	0.54	<0.5	25	69	44	6.15
CC149230		0.18	<0.001	<0.2	1.89	3	<10	560	<0.5	<2	0.06	<0.5	8	21	16	2.08
CC149231		0.38	0.002	0.2	1.64	9	<10	590	0.5	<2	0.05	<0.5	7	20	23	2.59
CC149232		0.22	<0.001	<0.2	0.68	6	<10	160	<0.5	<2	0.02	<0.5	5	10	13	1.90
CC149233		0.24	0.001	<0.2	0.53	4	<10	200	<0.5	<2	0.02	<0.5	3	7	7	1.35
CC149234		0.20	<0.001	0.5	0.60	4	<10	230	<0.5	<2	0.04	<0.5	4	6	11	1.01
CC149235		0.24	0.003	<0.2	0.67	7	<10	250	<0.5	<2	0.03	<0.5	6	11	17	1.83
CC149236		0.12	<0.001	<0.2	0.82	25	<10	460	<0.5	<2	0.26	<0.5	24	56	23	7.12
CC149237		0.14	<0.001	0.2	0.88	8	<10	1220	<0.5	<2	0.06	<0.5	8	13	34	3.44
CC149238		0.38	0.001	<0.2	0.71	6	<10	340	<0.5	<2	0.02	<0.5	5	10	18	1.71
CC149239		0.24	0.001	<0.2	0.68	6	<10	230	<0.5	<2	0.01	<0.5	7	11	28	2.12
CC149240		0.18	0.010	<0.2	0.59	7	<10	200	<0.5	<2	0.01	<0.5	5	9	20	1.72
CC149241		0.44	0.001	<0.2	0.56	6	<10	160	<0.5	<2	0.02	<0.5	6	10	23	1.83
CC149242		0.14	0.014	<0.2	0.43	11	<10	230	<0.5	<2	0.02	<0.5	4	7	22	1.34
CC149243		0.22	<0.001	0.3	0.54	6	<10	430	<0.5	<2	0.06	<0.5	3	8	17	1.15
CC149244		0.28	<0.001	<0.2	0.60	9	<10	190	<0.5	<2	0.02	<0.5	3	7	18	1.52
CC149245		0.28	0.006	<0.2	0.52	6	<10	310	<0.5	<2	0.02	<0.5	3	7	10	1.15
CC149246		0.14	<0.001	<0.2	0.34	7	<10	820	<0.5	<2	0.02	<0.5	6	8	50	1.78
CC149247		0.24	0.001	<0.2	0.79	5	<10	220	<0.5	<2	0.01	<0.5	3	10	11	1.43
CC149248		0.14	<0.001	<0.2	0.53	5	<10	330	<0.5	<2	0.02	<0.5	4	7	17	1.42
CC149249		0.22	0.001	<0.2	1.15	<2	<10	570	<0.5	<2	0.04	<0.5	6	12	17	1.96
CC149250		0.26	<0.001	<0.2	0.81	<2	<10	890	<0.5	<2	0.15	<0.5	5	11	14	1.24
CC149391		0.40	0.005	<0.2	1.39	8	<10	360	<0.5	<2	0.03	<0.5	7	19	34	2.52
CC149392		0.40	0.002	0.3	1.10	3	<10	370	<0.5	<2	0.03	<0.5	5	13	14	1.57
CC149393		0.32	0.001	<0.2	0.85	5	<10	310	<0.5	<2	0.02	<0.5	4	10	11	1.68
CC149394		0.42	0.005	<0.2	1.05	5	<10	890	<0.5	<2	0.12	<0.5	9	16	55	1.99
CC149395		0.38	0.001	<0.2	1.20	2	<10	640	<0.5	<2	0.10	<0.5	6	18	48	1.36
CC149396		0.18	0.001	<0.2	0.39	3	<10	370	<0.5	<2	0.04	<0.5	4	7	39	1.04
CC149397		0.28	0.003	0.2	1.15	6	<10	1110	<0.5	<2	0.17	<0.5	9	21	61	1.92
CC149398		0.36	0.001	<0.2	1.17	4	<10	870	<0.5	<2	0.18	<0.5	18	212	16	2.26
CC149399		0.18	0.001	0.2	0.76	<2	<10	410	<0.5	<2	0.04	<0.5	8	20	106	1.13
CC149400		0.14	0.002	0.4	0.22	17	<10	160	<0.5	<2	0.02	<0.5	5	4	33	0.94



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CERTIFICATE OF ANALYSIS WH11144990

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149221		<10	<1	0.10	20	0.60	754	1	0.01	40	300	14	<0.01	2	7	25
CC149222		<10	<1	0.07	10	0.69	753	1	0.01	66	370	10	<0.01	2	11	28
CC149223		<10	<1	0.03	10	0.55	172	<1	0.01	40	250	3	<0.01	<2	1	5
CC149224		10	<1	0.04	10	0.65	378	<1	0.01	49	170	6	<0.01	2	4	8
CC149225		<10	<1	0.10	20	0.77	1175	2	0.02	81	530	10	0.01	<2	8	20
CC149226		<10	<1	0.11	10	0.34	523	1	0.01	21	620	6	0.01	<2	4	21
CC149227		<10	<1	0.05	10	0.21	493	<1	0.02	11	280	4	<0.01	<2	2	8
CC149228		10	<1	0.04	10	0.27	397	<1	0.01	12	290	4	<0.01	<2	3	8
CC149229		<10	<1	0.07	<10	0.46	939	<1	0.01	34	360	3	0.01	4	15	19
CC149230		10	<1	0.05	10	0.23	674	<1	0.01	14	370	8	<0.01	<2	2	5
CC149231		<10	<1	0.10	20	0.36	356	1	0.01	25	230	11	<0.01	<2	2	9
CC149232		<10	<1	0.05	20	0.16	264	<1	<0.01	12	250	5	<0.01	<2	1	5
CC149233		<10	<1	0.04	20	0.11	194	<1	<0.01	7	130	5	<0.01	<2	1	4
CC149234		<10	<1	0.05	10	0.05	208	<1	0.01	5	430	11	<0.01	<2	1	7
CC149235		<10	<1	0.06	20	0.25	286	1	<0.01	17	160	6	<0.01	<2	1	6
CC149236		<10	<1	0.06	<10	0.12	1115	<1	0.01	48	430	5	0.01	3	18	24
CC149237		<10	<1	0.06	10	0.08	2510	1	0.02	14	550	9	0.01	<2	1	12
CC149238		<10	<1	0.05	20	0.15	239	<1	0.01	15	170	4	<0.01	<2	1	5
CC149239		<10	<1	0.06	20	0.20	259	1	<0.01	20	220	7	<0.01	<2	1	4
CC149240		<10	<1	0.05	20	0.14	382	1	<0.01	15	420	4	<0.01	<2	1	3
CC149241		<10	<1	0.06	20	0.15	387	2	0.01	17	280	8	0.01	<2	1	6
CC149242		<10	<1	0.05	20	0.05	287	1	0.01	12	280	5	0.01	<2	1	7
CC149243		<10	<1	0.05	10	0.11	210	1	0.02	10	230	10	0.02	<2	1	9
CC149244		<10	<1	0.03	20	0.09	149	1	0.01	11	110	8	0.01	<2	1	6
CC149245		<10	<1	0.04	20	0.14	169	1	0.01	10	100	5	0.01	<2	1	6
CC149246		<10	<1	0.05	20	0.03	402	1	0.02	28	250	7	0.03	<2	1	8
CC149247		<10	<1	0.04	20	0.18	163	1	0.01	11	100	5	0.01	<2	1	4
CC149248		<10	<1	0.03	20	0.08	157	1	0.01	13	110	6	0.01	<2	1	6
CC149249		<10	<1	0.04	20	0.18	279	1	0.01	16	130	5	0.01	<2	1	7
CC149250		<10	<1	0.06	10	0.25	310	1	0.01	17	130	5	0.01	<2	1	13
CC149391		<10	<1	0.11	20	0.41	322	2	0.01	28	170	14	0.01	<2	2	7
CC149392		<10	<1	0.05	20	0.22	297	1	0.01	14	150	8	0.01	<2	1	7
CC149393		<10	<1	0.04	20	0.22	231	1	0.01	13	110	7	0.01	<2	1	6
CC149394		<10	<1	0.05	20	0.36	498	2	0.01	26	210	15	0.01	<2	1	17
CC149395		10	<1	0.08	10	0.12	541	2	0.02	7	230	14	0.01	<2	2	17
CC149396		<10	<1	0.04	20	0.04	161	1	0.01	12	210	7	0.02	<2	1	11
CC149397		<10	<1	0.09	10	0.26	664	1	0.03	21	290	10	0.02	<2	2	27
CC149398		<10	<1	0.05	10	1.73	690	1	0.02	105	160	8	0.01	<2	2	17
CC149399		<10	<1	0.06	10	0.08	655	<1	0.02	20	240	16	0.02	<2	2	10
CC149400		<10	<1	0.03	10	0.01	42	<1	0.02	19	290	6	0.02	<2	<1	8

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CERTIFICATE OF ANALYSIS WH11144990

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149221		<20	0.01	<10	<10	53	<10	95
CC149222		<20	0.04	<10	<10	72	<10	83
CC149223		<20	0.03	<10	<10	46	<10	46
CC149224		<20	0.02	<10	<10	82	<10	53
CC149225		<20	0.01	<10	<10	71	<10	83
CC149226		<20	0.01	<10	<10	75	<10	75
CC149227		<20	0.01	<10	<10	45	<10	49
CC149228		<20	0.02	<10	<10	84	<10	53
CC149229		<20	<0.01	<10	<10	105	<10	52
CC149230		<20	0.02	<10	<10	61	<10	92
CC149231		<20	0.01	<10	<10	39	<10	70
CC149232		<20	0.01	<10	<10	28	<10	49
CC149233		<20	0.01	<10	<10	21	<10	21
CC149234		<20	0.02	<10	<10	22	<10	21
CC149235		<20	0.01	<10	<10	19	<10	41
CC149236		<20	0.01	<10	<10	131	<10	70
CC149237		<20	0.01	<10	<10	36	<10	83
CC149238		<20	0.01	<10	<10	18	<10	43
CC149239		<20	0.01	<10	<10	19	<10	57
CC149240		<20	0.01	<10	<10	19	<10	41
CC149241		<20	0.01	<10	<10	21	<10	56
CC149242		<20	0.01	<10	<10	21	<10	38
CC149243		<20	0.01	<10	<10	19	<10	24
CC149244		<20	0.01	<10	<10	22	<10	35
CC149245		<20	<0.01	<10	<10	14	<10	30
CC149246		<20	0.01	<10	<10	20	<10	55
CC149247		<20	0.01	<10	<10	16	<10	32
CC149248		<20	<0.01	<10	<10	17	<10	35
CC149249		<20	0.01	<10	<10	24	<10	46
CC149250		<20	<0.01	<10	<10	16	<10	35
CC149391		<20	0.01	<10	<10	34	<10	79
CC149392		<20	0.01	<10	<10	29	<10	44
CC149393		<20	0.01	<10	<10	24	<10	33
CC149394		<20	<0.01	<10	<10	23	<10	58
CC149395		<20	0.01	<10	<10	40	<10	33
CC149396		<20	0.01	<10	<10	20	<10	38
CC149397		<20	0.01	<10	<10	28	<10	56
CC149398		<20	0.01	<10	<10	33	<10	67
CC149399		<20	0.01	<10	<10	23	<10	57
CC149400		<20	0.01	<10	<10	12	<10	72

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Project: WLV- Loop

CERTIFICATE OF ANALYSIS WH11144990

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149401		Not Recvd														
CC149402		Not Recvd														
CC149403		Not Recvd														
CC149404		Not Recvd														
CC149405		Not Recvd														
CC149406		Not Recvd														
CC149407		Not Recvd														
CC149408		Not Recvd														
CC149409		Not Recvd														
CC149410		Not Recvd														
CC149411		Not Recvd														
CC149412		0.24	<0.001	<0.2	0.85	3	<10	260	<0.5	<2	0.02	<0.5	5	19	21	1.42
CC149413		0.20	0.002	<0.2	1.09	4	<10	480	<0.5	<2	0.04	<0.5	18	20	24	2.68
CC149414		0.22	<0.001	<0.2	0.74	<2	<10	530	<0.5	<2	0.04	<0.5	3	11	8	0.98
CC149415		0.16	0.001	0.3	0.66	4	<10	220	<0.5	<2	0.05	<0.5	5	13	13	1.62
CC149416		0.18	0.003	<0.2	0.94	4	<10	830	<0.5	<2	0.10	<0.5	5	17	19	1.43
CC149417		0.24	0.001	0.2	1.17	7	<10	400	0.5	<2	0.12	<0.5	5	20	27	2.15
CC149418		0.20	0.001	0.2	0.73	4	<10	320	<0.5	<2	0.04	<0.5	4	13	13	1.47
CC149419		0.36	0.001	0.2	1.07	8	<10	480	<0.5	<2	0.13	<0.5	6	23	23	2.23
CC149420		0.22	0.003	0.5	1.03	7	<10	580	0.5	<2	0.39	<0.5	8	22	46	2.25
CC149421		0.16	0.001	0.3	1.66	21	<10	440	<0.5	<2	0.32	0.6	30	96	43	5.92
CC149422		0.10	0.010	0.3	1.46	9	<10	2910	<0.5	<2	0.90	<0.5	18	77	43	3.61
CC149423		0.10	0.001	<0.2	1.33	<2	<10	140	<0.5	<2	0.36	<0.5	5	25	10	2.09
CC149424		0.28	<0.001	0.2	2.51	8	<10	230	<0.5	<2	0.48	<0.5	17	88	31	4.99
CC149425		0.28	0.001	<0.2	1.74	4	<10	470	<0.5	<2	0.45	<0.5	9	49	24	2.36
CC149426		0.14	<0.001	<0.2	0.79	6	<10	120	<0.5	<2	0.07	<0.5	4	18	13	1.78
CC149427		0.20	<0.001	<0.2	1.38	3	<10	540	<0.5	<2	0.26	<0.5	7	33	15	2.06
CC149428		0.26	<0.001	<0.2	2.46	13	<10	300	<0.5	<2	0.23	<0.5	34	635	41	4.67
CC149429		0.26	<0.001	<0.2	1.28	43	<10	700	<0.5	<2	0.93	<0.5	37	262	51	7.05
CC149430		0.32	0.001	0.2	2.33	9	<10	910	0.7	<2	0.77	<0.5	19	99	43	3.76
CC149431		0.24	0.001	<0.2	1.78	7	<10	730	<0.5	<2	0.57	<0.5	11	57	23	2.90
CC149432		0.10	0.003	<0.2	2.06	15	<10	510	0.5	<2	0.44	<0.5	26	72	42	5.15
CC149433		0.12	<0.001	<0.2	3.91	9	<10	420	0.6	<2	0.36	<0.5	42	155	19	9.60
CC149434		0.16	0.001	<0.2	2.17	4	<10	1050	<0.5	<2	0.40	<0.5	11	37	17	2.30
CC149435		0.26	0.002	0.3	0.53	7	<10	220	<0.5	<2	0.13	<0.5	15	16	28	3.91
CC149436		0.10	0.025	7.1	5.11	11	<10	940	2.6	<2	0.38	<0.5	87	42	313	8.04
CC149437		0.24	0.003	0.6	1.60	7	<10	820	0.6	<2	0.24	<0.5	11	25	88	2.39
CC149438		0.16	0.002	0.2	0.77	4	<10	460	<0.5	<2	0.18	<0.5	6	11	12	1.21
CC149439		0.14	0.003	1.7	1.18	5	<10	1660	0.6	<2	0.93	<0.5	9	17	69	2.13
CC149440		0.30	0.007	0.6	1.00	5	<10	730	<0.5	<2	0.51	<0.5	7	15	39	1.81



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CERTIFICATE OF ANALYSIS WH11144990

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149401																
CC149402																
CC149403																
CC149404																
CC149405																
CC149406																
CC149407																
CC149408																
CC149409																
CC149410																
CC149411		<10	<1	0.04	10	0.08	316	1	0.02	15	210	6	0.01	<2	1	5
CC149412		10	<1	0.06	10	0.17	1395	2	0.02	19	400	20	0.02	<2	1	8
CC149413		<10	<1	0.04	20	0.14	177	1	0.01	8	100	5	0.01	<2	1	8
CC149414		<10	<1	0.04	20	0.11	307	2	0.01	13	250	7	0.02	<2	1	8
CC149415		<10	<1	0.04	20	0.11	307	2	0.01	13	250	7	0.02	<2	1	8
CC149416		<10	<1	0.05	20	0.29	294	1	0.01	19	130	9	0.01	<2	1	15
CC149417		<10	<1	0.07	20	0.41	240	3	0.01	24	360	13	0.01	<2	2	12
CC149418		<10	<1	0.07	20	0.23	227	2	0.01	16	190	7	0.01	<2	1	7
CC149419		<10	<1	0.08	20	0.34	362	2	0.01	18	370	11	0.01	<2	2	15
CC149420		<10	<1	0.07	20	0.33	288	2	0.01	31	750	9	0.03	<2	4	38
CC149421		10	<1	0.09	10	0.86	1725	3	0.01	61	580	17	0.02	2	11	33
CC149422		<10	<1	0.06	10	0.77	675	1	0.05	43	560	5	0.11	<2	8	81
CC149423		10	<1	0.02	10	0.13	284	<1	0.02	9	290	5	0.02	<2	1	7
CC149424		10	<1	0.03	10	0.86	423	1	0.01	39	260	5	0.02	<2	6	13
CC149425		10	<1	0.05	10	0.49	305	1	0.02	31	140	9	0.02	<2	4	18
CC149426		<10	<1	0.04	20	0.18	330	2	0.01	14	150	8	0.01	<2	1	6
CC149427		<10	<1	0.05	10	0.38	350	2	0.01	22	160	8	0.01	<2	2	13
CC149428		10	<1	0.06	10	1.79	665	1	0.01	377	250	5	0.01	<2	9	16
CC149429		<10	<1	0.07	<10	0.32	1205	1	0.01	367	530	6	0.03	7	17	41
CC149430		10	<1	0.05	10	1.02	1105	<1	0.02	61	560	9	0.03	<2	15	28
CC149431		10	<1	0.08	10	0.65	502	1	0.01	34	360	8	0.02	2	6	20
CC149432		10	<1	0.07	10	0.95	1320	1	0.01	54	330	8	0.01	<2	10	13
CC149433		10	<1	0.03	<10	2.50	2410	<1	0.01	80	470	2	0.01	3	24	14
CC149434		10	<1	0.05	20	0.48	835	<1	0.02	23	280	11	0.01	<2	5	29
CC149435		<10	<1	0.08	20	0.08	359	2	<0.01	29	650	13	0.01	2	2	7
CC149436		10	1	0.06	30	0.18	2550	1	0.02	84	2090	88	0.07	<2	5	42
CC149437		<10	<1	0.11	20	0.40	669	1	0.02	26	250	18	0.01	<2	3	27
CC149438		<10	<1	0.06	20	0.27	300	<1	0.01	12	150	6	0.01	<2	1	20
CC149439		<10	<1	0.06	10	0.41	584	1	0.03	33	680	13	0.10	<2	2	156
CC149440		<10	<1	0.06	20	0.40	341	1	0.01	23	510	9	0.03	<2	2	74



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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	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
CC149401		20	0.01	10	10	1	10	2
CC149402								
CC149403								
CC149404								
CC149405								
CC149406								
CC149407								
CC149408								
CC149409								
CC149410								
CC149411								
CC149412		<20	0.01	<10	<10	33	<10	51
CC149413		<20	0.01	<10	<10	44	<10	92
CC149414		<20	0.01	<10	<10	23	<10	27
CC149415		<20	0.01	<10	<10	31	<10	44
CC149416		<20	0.01	<10	<10	23	<10	39
CC149417		<20	0.01	<10	<10	40	<10	88
CC149418		<20	0.01	<10	<10	23	<10	41
CC149419		<20	0.02	<10	<10	41	<10	63
CC149420		<20	0.01	<10	<10	33	<10	76
CC149421		<20	0.02	<10	<10	109	<10	112
CC149422		<20	0.04	<10	<10	83	<10	74
CC149423		<20	0.10	<10	<10	77	<10	69
CC149424		<20	0.04	<10	<10	152	<10	63
CC149425		<20	0.05	<10	<10	82	<10	32
CC149426		<20	0.02	<10	<10	42	<10	37
CC149427		<20	0.02	<10	<10	55	<10	51
CC149428		<20	0.02	<10	<10	107	<10	64
CC149429		<20	<0.01	<10	<10	95	<10	56
CC149430		<20	0.02	<10	<10	87	<10	65
CC149431		<20	0.01	<10	<10	66	<10	58
CC149432		<20	0.04	<10	<10	108	<10	73
CC149433		<20	0.01	<10	<10	250	<10	89
CC149434		<20	0.01	<10	<10	72	<10	46
CC149435		<20	0.02	<10	<10	37	<10	88
CC149436		<20	0.02	<10	<10	54	<10	117
CC149437		<20	0.01	<10	<10	44	<10	80
CC149438		<20	0.01	<10	<10	21	<10	43
CC149439		<20	0.01	<10	<10	24	<10	73
CC149440		<20	0.01	<10	<10	24	<10	60



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149441		0.22	0.023	0.2	1.37	6	<10	900	<0.5	<2	0.08	<0.5	6	20	106	2.13
CC149442		0.14	0.006	<0.2	1.19	<2	<10	280	<0.5	<2	0.03	<0.5	9	21	15	2.20
CC149443		0.14	0.001	<0.2	0.96	15	<10	240	<0.5	<2	0.04	<0.5	3	11	44	2.16
CC149444		0.16	0.002	0.4	1.22	6	<10	1210	<0.5	<2	0.15	0.6	25	75	97	2.92
CC149445		0.40	0.003	0.2	0.88	4	<10	910	<0.5	<2	0.17	<0.5	5	12	34	1.40
CC149446		0.24	0.008	1.1	0.99	7	<10	1710	0.5	<2	0.77	0.5	50	27	247	2.82
CC149447		0.22	<0.001	<0.2	0.63	2	<10	280	<0.5	<2	0.03	<0.5	6	7	19	1.02
CC149448		0.30	0.004	0.4	0.92	9	<10	490	<0.5	<2	0.79	0.5	9	16	34	1.97
CC149449		0.34	0.008	0.4	0.92	7	<10	620	<0.5	<2	1.00	0.6	10	15	41	1.68
CC149450		0.14	0.016	1.4	1.06	10	<10	1260	0.6	<2	1.50	<0.5	9	22	107	1.66
CC149751		0.16	0.001	<0.2	0.91	6	<10	550	<0.5	<2	0.07	<0.5	5	12	17	1.64
CC149752		0.22	0.003	<0.2	1.02	5	<10	510	<0.5	<2	0.11	<0.5	6	14	24	1.80
CC149753		0.20	0.001	0.2	1.04	10	<10	760	<0.5	<2	0.33	<0.5	7	25	29	1.87
CC149754		0.26	0.003	0.2	1.18	8	<10	800	<0.5	<2	0.91	<0.5	8	21	30	2.11
CC149755		0.42	0.007	0.2	1.30	8	<10	530	0.5	<2	0.33	<0.5	9	24	43	2.40
CC149756		0.18	<0.001	<0.2	0.92	2	<10	380	<0.5	<2	0.19	<0.5	4	14	11	1.21
CC149757		0.14	0.006	<0.2	1.00	11	<10	590	<0.5	<2	0.34	<0.5	11	34	35	3.07
CC149758		0.16	0.007	<0.2	1.21	25	<10	660	0.6	<2	0.57	<0.5	20	77	43	5.92
CC149759		0.24	0.001	0.2	1.43	6	<10	890	<0.5	<2	0.59	<0.5	11	37	22	2.13
CC149760		0.20	<0.001	<0.2	2.10	9	<10	990	<0.5	<2	0.83	<0.5	17	105	26	4.28
CC149761		0.20	0.001	0.2	1.56	26	<10	980	<0.5	<2	0.45	<0.5	14	61	24	2.87
CC149762		0.22	0.005	0.3	1.59	8	<10	1630	0.6	<2	0.34	0.9	9	25	37	2.43
CC149763		0.22	0.002	0.4	1.15	16	<10	750	0.5	<2	0.75	<0.5	18	167	48	2.46
CC149764		0.22	0.009	0.2	0.97	86	<10	630	0.5	<2	1.02	0.7	21	92	40	4.66
CC149765		0.20	0.001	<0.2	1.11	9	<10	320	<0.5	<2	0.09	0.6	10	44	21	2.42
CC149766		0.26	<0.001	0.2	1.38	10	<10	780	0.5	<2	0.47	<0.5	13	54	42	2.46
CC149767		0.20	0.001	<0.2	1.05	31	<10	310	<0.5	<2	0.14	<0.5	12	119	13	2.65
CC149768		0.22	<0.001	<0.2	1.23	6	<10	740	<0.5	<2	0.16	<0.5	8	25	19	2.25
CC149136		0.26	<0.001	0.2	0.51	3	<10	320	<0.5	<2	0.08	<0.5	4	9	9	1.12
CC149137		0.26	0.001	<0.2	0.61	4	<10	290	<0.5	<2	0.04	<0.5	5	10	16	1.53
CC149138		0.38	0.002	<0.2	0.95	6	<10	450	<0.5	<2	0.02	<0.5	5	12	24	1.79
CC149139		0.26	0.001	0.3	0.43	2	<10	200	<0.5	<2	0.03	<0.5	2	5	14	0.79
CC149140		0.40	0.002	<0.2	0.75	3	<10	400	<0.5	<2	0.08	<0.5	4	10	10	1.37
CC149851		0.52	0.002	<0.2	0.77	5	<10	370	<0.5	<2	0.16	<0.5	7	53	17	1.56
CC149852		0.28	0.002	<0.2	0.67	3	<10	370	<0.5	<2	0.03	<0.5	3	10	9	1.30
CC149853		0.22	0.002	<0.2	0.88	6	<10	420	<0.5	<2	0.02	<0.5	5	12	13	1.69
CC149854		0.16	0.001	<0.2	1.28	4	<10	1240	<0.5	<2	0.08	<0.5	4	16	11	1.47
CC149855		0.20	0.003	<0.2	0.55	4	<10	240	<0.5	<2	0.05	<0.5	3	7	9	1.25
CC149856		0.16	<0.001	<0.2	0.61	5	<10	320	<0.5	<2	0.12	<0.5	5	8	10	1.31
CC149857		0.22	0.002	<0.2	0.88	7	<10	450	<0.5	<2	0.03	<0.5	6	12	19	1.78



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149441		<10	<1	0.07	20	0.28	465	1	0.02	18	290	11	0.02	<2	2	15
CC149442		10	<1	0.09	30	0.56	304	1	<0.01	31	420	9	0.01	<2	1	8
CC149443		10	<1	0.05	30	0.25	315	2	0.01	12	460	14	0.02	<2	1	15
CC149444		10	<1	0.09	10	0.21	1535	2	0.03	35	530	61	0.02	<2	2	30
CC149445		<10	<1	0.07	10	0.22	207	1	0.02	18	150	8	0.01	<2	1	22
CC149446		<10	<1	0.06	10	0.24	893	2	0.03	36	690	49	0.03	<2	2	116
CC149447		<10	<1	0.05	10	0.04	931	2	0.02	7	180	7	0.01	<2	1	6
CC149448		<10	<1	0.09	20	0.39	655	2	0.01	29	700	15	0.04	<2	3	87
CC149449		<10	<1	0.08	10	0.37	1170	2	0.02	28	780	14	0.06	<2	2	115
CC149450		<10	<1	0.07	10	0.34	624	<1	0.03	62	680	14	0.08	<2	3	176
CC149751		<10	<1	0.06	20	0.25	283	1	0.01	17	150	6	0.01	<2	1	7
CC149752		<10	<1	0.09	20	0.30	285	1	0.01	19	230	9	0.01	<2	1	10
CC149753		<10	<1	0.13	10	0.31	456	1	0.02	23	410	11	0.02	<2	2	21
CC149754		<10	<1	0.12	10	0.45	555	1	0.02	26	750	12	0.04	<2	3	52
CC149755		<10	<1	0.09	20	0.56	481	1	0.01	250	170	13	0.02	3	4	32
CC149756		<10	<1	0.04	10	0.15	323	<1	0.02	15	220	4	0.01	<2	2	10
CC149757		<10	<1	0.09	10	0.27	787	<1	0.02	25	670	5	0.03	2	5	18
CC149758		<10	<1	0.06	10	0.29	1125	<1	0.03	51	350	2	0.03	3	21	30
CC149759		<10	<1	0.06	10	0.43	803	<1	0.03	36	240	8	0.02	<2	3	39
CC149760		10	<1	0.13	10	0.89	678	1	0.02	44	460	8	0.03	2	7	53
CC149761		<10	<1	0.06	10	0.35	1445	<1	0.03	51	330	5	0.02	5	5	35
CC149762		<10	<1	0.08	10	0.23	667	1	0.03	24	350	13	0.02	<2	4	36
CC149763		<10	<1	0.05	10	1.02	863	<1	0.03	214	570	6	0.04	2	7	71
CC149764		<10	<1	0.05	<10	0.27	1115	<1	0.02	126	740	4	0.05	10	12	101
CC149765		<10	<1	0.06	20	0.56	382	1	<0.01	36	160	7	<0.01	<2	2	5
CC149766		<10	<1	0.11	10	0.47	879	<1	0.01	73	450	11	0.02	2	4	43
CC149767		<10	<1	0.05	10	0.61	316	<1	<0.01	88	130	8	<0.01	5	2	16
CC149768		<10	<1	0.08	10	0.30	764	<1	0.01	21	180	12	0.01	<2	2	15
CC149136		<10	<1	0.06	20	0.19	266	<1	<0.01	11	160	4	<0.01	<2	1	8
CC149137		<10	<1	0.06	20	0.18	219	1	<0.01	14	210	5	<0.01	<2	1	6
CC149138		<10	<1	0.05	20	0.26	260	1	<0.01	18	110	6	<0.01	<2	1	5
CC149139		<10	<1	0.04	10	0.04	124	<1	0.02	7	430	4	<0.01	<2	<1	6
CC149140		<10	<1	0.05	20	0.24	220	<1	<0.01	13	140	5	<0.01	<2	1	7
CC149851		<10	<1	0.03	10	0.45	220	<1	<0.01	29	370	3	0.01	<2	5	10
CC149852		<10	<1	0.04	20	0.14	199	<1	<0.01	10	150	4	<0.01	<2	1	4
CC149853		<10	<1	0.04	20	0.20	292	1	<0.01	13	150	7	<0.01	<2	1	4
CC149854		<10	<1	0.03	20	0.23	300	1	0.02	13	90	6	<0.01	<2	2	7
CC149855		<10	<1	0.05	20	0.12	192	1	<0.01	8	110	4	<0.01	<2	1	5
CC149856		<10	<1	0.06	20	0.11	615	<1	<0.01	8	140	5	<0.01	<2	1	9
CC149857		<10	<1	0.06	20	0.27	205	<1	<0.01	19	90	5	<0.01	<2	1	3



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Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149441		<20	0.01	<10	<10	41	<10	44
CC149442		<20	0.01	<10	<10	27	<10	69
CC149443		<20	0.01	<10	<10	30	<10	60
CC149444		<20	0.02	<10	<10	53	<10	164
CC149445		<20	0.01	<10	<10	21	<10	48
CC149446		<20	0.02	<10	<10	37	<10	63
CC149447		<20	0.01	<10	<10	19	<10	37
CC149448		<20	0.01	<10	<10	28	<10	100
CC149449		<20	0.01	<10	<10	27	<10	84
CC149450		<20	0.01	<10	<10	17	<10	52
CC149751		<20	0.01	<10	<10	23	<10	40
CC149752		<20	0.01	<10	<10	27	<10	62
CC149753		<20	0.01	<10	<10	35	<10	68
CC149754		<20	0.01	<10	<10	34	<10	88
CC149755		<20	0.01	<10	<10	36	<10	67
CC149756		<20	0.01	<10	<10	40	<10	24
CC149757		<20	0.01	<10	<10	67	<10	38
CC149758		<20	0.01	<10	<10	113	<10	54
CC149759		<20	0.02	<10	<10	47	<10	43
CC149760		<20	0.01	<10	<10	79	<10	56
CC149761		<20	0.01	<10	<10	68	<10	39
CC149762		<20	0.01	<10	<10	64	<10	45
CC149763		<20	0.01	<10	<10	41	<10	36
CC149764		<20	<0.01	<10	<10	67	<10	53
CC149765		<20	0.01	<10	<10	38	<10	52
CC149766		<20	0.01	<10	<10	45	<10	68
CC149767		<20	0.01	<10	<10	44	<10	53
CC149768		<20	0.01	<10	<10	46	<10	44
CC149136		<20	0.01	<10	<10	16	<10	32
CC149137		<20	0.01	<10	<10	19	<10	36
CC149138		<20	0.01	<10	<10	25	<10	43
CC149139		<20	0.01	<10	<10	15	<10	20
CC149140		<20	0.01	<10	<10	16	<10	32
CC149851		<20	0.01	<10	<10	30	<10	28
CC149852		<20	0.01	<10	<10	20	<10	26
CC149853		<20	0.01	<10	<10	25	<10	36
CC149854		<20	0.01	<10	<10	34	<10	35
CC149855		<20	0.01	<10	<10	22	<10	27
CC149856		<20	0.01	<10	<10	26	<10	29
CC149857		<20	<0.01	<10	<10	21	<10	45



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149858		0.22	0.004	<0.2	1.07	7	<10	230	<0.5	<2	0.17	<0.5	6	12	18	3.39
CC149859		0.18	<0.001	<0.2	1.12	7	<10	760	<0.5	<2	0.08	<0.5	7	16	21	2.15
CC149860		0.12	<0.001	<0.2	0.57	21	<10	290	<0.5	<2	0.09	<0.5	9	17	23	2.96
CC149861		0.20	0.004	<0.2	2.20	8	<10	980	0.5	<2	0.25	<0.5	15	36	23	3.82
CC149862		0.14	<0.001	<0.2	1.31	31	<10	660	<0.5	<2	0.17	<0.5	13	126	28	2.80
CC149863		0.18	<0.001	0.3	0.56	2	<10	270	<0.5	<2	0.14	<0.5	4	16	10	0.78
CC149864		0.36	0.004	0.4	1.30	10	<10	680	0.6	<2	0.37	0.5	14	26	54	2.74
CC149865		0.36	0.004	0.4	1.34	13	<10	740	0.6	<2	0.62	0.9	15	27	60	2.90
CC149866		0.26	0.001	0.2	0.66	4	<10	420	<0.5	<2	1.03	0.8	8	14	29	1.35
CC149867		0.32	0.001	<0.2	1.28	8	<10	310	<0.5	<2	0.10	<0.5	7	30	23	2.37
CC149868		0.14	0.008	<0.2	1.81	21	<10	710	0.7	<2	0.60	<0.5	18	59	51	4.03
CC149869		0.16	0.001	<0.2	1.04	418	<10	1470	0.6	<2	1.92	<0.5	105	634	42	10.90
CC149870		0.18	<0.001	0.2	1.50	21	<10	450	<0.5	<2	0.25	<0.5	16	94	28	3.61
CC149871		0.20	0.001	<0.2	1.26	15	<10	560	<0.5	<2	0.18	<0.5	10	41	23	2.81
CC149872		0.12	<0.001	0.2	0.75	9	<10	600	<0.5	<2	0.18	<0.5	7	60	13	1.64
CC149873		0.22	<0.001	<0.2	1.32	4	<10	650	<0.5	<2	0.25	<0.5	14	118	12	2.38
CC149874		0.16	0.001	<0.2	1.20	5	<10	540	<0.5	<2	0.06	<0.5	7	26	24	1.95
CC149875		0.16	<0.001	0.2	1.09	8	<10	970	<0.5	<2	0.51	<0.5	9	26	49	2.07
CC149801		0.30	0.004	0.2	1.49	17	<10	650	0.5	<2	0.59	<0.5	20	108	38	3.35
CC149802		0.30	0.003	0.5	2.30	95	<10	1290	1.2	<2	0.73	0.5	87	478	57	10.30
CC149803		0.20	0.003	0.2	1.23	11	<10	480	<0.5	<2	0.13	<0.5	15	116	26	2.86
CC149804		0.26	0.003	0.2	1.30	9	<10	950	<0.5	<2	0.39	<0.5	14	94	45	2.67
CC149805		0.34	0.004	0.4	1.31	14	<10	1020	0.6	<2	0.39	<0.5	12	41	57	2.92
CC149806		0.52	0.007	0.4	1.49	13	<10	1000	0.5	<2	0.45	<0.5	22	139	75	3.08
CC149807		0.26	0.003	0.7	1.50	7	<10	2180	0.5	<2	1.08	<0.5	10	49	54	2.38
CC149771		0.24	0.001	<0.2	1.18	7	<10	570	<0.5	<2	0.10	<0.5	7	20	22	2.28
CC149772		0.14	0.002	0.4	1.45	7	<10	1540	0.6	<2	0.21	<0.5	11	18	40	2.09
CC149773		0.14	0.008	<0.2	0.79	6	<10	550	<0.5	<2	0.07	<0.5	3	11	26	1.44
CC149774		0.22	<0.001	<0.2	1.01	8	<10	400	<0.5	<2	0.04	<0.5	7	16	30	2.31
CC149775		0.24	0.005	0.2	1.10	6	<10	1420	<0.5	<2	0.33	<0.5	7	17	32	1.82
CC149776		0.18	<0.001	<0.2	1.12	6	<10	1240	<0.5	<2	0.71	<0.5	7	17	23	1.68
CC149777		0.26	0.004	0.3	0.95	6	<10	1480	<0.5	<2	0.78	<0.5	10	17	41	1.81
CC149778		0.32	0.004	0.9	1.40	6	<10	2110	0.6	<2	0.94	<0.5	12	23	73	2.20
CC149779		0.22	0.004	<0.2	1.81	13	<10	1120	0.6	<2	0.08	<0.5	13	31	76	3.74
CC149780		0.26	0.002	0.3	1.06	6	<10	1230	<0.5	<2	0.34	<0.5	12	25	41	1.70
CC149781		0.32	0.002	0.2	0.94	6	<10	810	<0.5	<2	0.05	<0.5	8	34	42	1.68
CC149782		0.22	0.003	<0.2	0.76	7	<10	790	<0.5	<2	0.08	<0.5	8	23	43	1.88
CC149783		0.22	0.001	<0.2	0.91	8	<10	750	<0.5	<2	0.07	<0.5	10	34	50	2.21
CC149784		0.32	0.007	0.5	1.38	10	<10	1320	0.6	<2	0.99	<0.5	14	97	77	2.45
CC149785		0.14	0.027	0.3	0.97	5	<10	1090	<0.5	<2	2.20	<0.5	12	81	75	1.56



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149858		10	<1	0.04	10	0.18	253	1	0.01	8	470	7	0.02	<2	2	12
CC149859		<10	<1	0.07	20	0.36	365	1	0.01	22	180	10	<0.01	<2	1	8
CC149860		<10	<1	0.07	10	0.11	398	1	<0.01	29	300	6	0.01	2	3	8
CC149861		10	<1	0.05	10	0.31	1595	<1	0.02	22	270	12	0.01	<2	6	15
CC149862		<10	<1	0.09	10	0.57	833	1	0.01	81	320	12	0.01	2	2	11
CC149863		<10	<1	0.08	10	0.14	250	<1	0.02	10	240	4	0.01	<2	1	10
CC149864		<10	<1	0.13	20	0.52	1180	2	0.01	40	440	16	0.01	2	4	25
CC149865		<10	<1	0.14	20	0.58	1775	3	0.01	50	740	17	0.02	<2	5	41
CC149866		<10	<1	0.06	10	0.32	1165	<1	0.03	25	410	4	0.06	<2	3	54
CC149867		<10	<1	0.04	20	0.28	334	1	0.01	26	140	8	<0.01	2	3	7
CC149868		<10	<1	0.10	10	0.64	908	1	0.02	70	290	10	0.01	3	14	43
CC149869		<10	<1	0.04	10	1.12	2290	1	0.03	1685	460	2	0.03	123	21	554
CC149870		10	<1	0.09	10	0.76	787	2	0.01	78	340	10	0.01	2	4	16
CC149871		<10	<1	0.06	10	0.43	540	<1	0.01	35	180	7	<0.01	2	3	11
CC149872		<10	<1	0.07	10	0.30	379	1	0.02	27	260	5	0.01	<2	1	24
CC149873		<10	<1	0.04	10	0.66	593	<1	0.02	78	130	8	0.01	<2	3	17
CC149874		<10	<1	0.05	20	0.42	265	1	0.01	31	110	8	<0.01	<2	2	5
CC149875		<10	<1	0.07	20	0.25	528	<1	0.02	41	460	9	0.02	<2	4	41
CC149801		<10	<1	0.07	10	1.21	748	<1	0.02	112	380	9	0.03	2	9	47
CC149802		<10	<1	0.13	10	1.09	2110	3	0.02	1180	730	11	0.02	27	14	82
CC149803		<10	<1	0.11	20	1.02	629	1	0.02	85	230	11	<0.01	<2	3	13
CC149804		<10	<1	0.08	20	1.02	481	1	0.02	114	700	10	<0.01	<2	5	34
CC149805		<10	<1	0.10	20	0.49	533	2	0.02	69	460	12	0.01	<2	4	37
CC149806		<10	<1	0.13	20	1.01	713	2	0.02	227	740	10	0.01	<2	6	38
CC149807		<10	<1	0.10	10	0.58	1890	2	0.02	58	950	10	0.09	<2	5	74
CC149771		<10	<1	0.07	20	0.35	341	1	0.02	23	130	8	<0.01	<2	2	12
CC149772		<10	<1	0.08	10	0.29	1970	1	0.02	31	1100	10	0.03	<2	2	21
CC149773		<10	<1	0.08	10	0.14	217	2	0.02	13	490	9	<0.01	<2	1	11
CC149774		<10	<1	0.09	20	0.32	366	2	0.01	25	200	10	<0.01	<2	1	8
CC149775		<10	<1	0.06	20	0.35	396	1	0.02	25	280	8	<0.01	<2	2	16
CC149776		<10	<1	0.05	10	0.26	359	1	0.02	21	240	7	0.01	<2	2	30
CC149777		<10	<1	0.06	10	0.32	511	1	0.02	27	570	11	0.02	<2	2	41
CC149778		<10	<1	0.13	10	0.30	504	2	0.02	52	1080	14	0.06	<2	4	54
CC149779		10	<1	0.26	10	0.25	1090	3	0.02	30	890	25	0.01	<2	3	15
CC149780		<10	<1	0.10	10	0.33	1120	2	0.02	43	640	11	0.02	<2	2	29
CC149781		<10	<1	0.14	10	0.20	387	2	0.03	37	450	9	0.01	<2	1	12
CC149782		<10	<1	0.08	20	0.29	407	1	0.01	40	280	7	<0.01	<2	1	12
CC149783		<10	<1	0.09	20	0.32	485	2	0.01	42	160	8	<0.01	<2	1	11
CC149784		<10	1	0.10	10	0.93	387	2	0.02	172	1000	14	0.05	<2	5	52
CC149785		<10	<1	0.07	10	1.07	841	1	0.03	380	760	6	0.10	<2	4	96



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Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149858		<20	0.04	<10	<10	106	<10	53
CC149859		<20	0.01	<10	<10	30	<10	56
CC149860		<20	0.01	<10	<10	49	<10	49
CC149861		<20	0.01	<10	<10	87	<10	67
CC149862		<20	0.01	<10	<10	54	<10	57
CC149863		<20	0.01	<10	<10	23	<10	32
CC149864		<20	0.02	<10	<10	43	<10	114
CC149865		<20	0.01	<10	<10	47	<10	132
CC149866		<20	0.01	<10	<10	25	<10	73
CC149867		<20	0.01	<10	<10	49	<10	48
CC149868		<20	0.01	<10	<10	74	<10	74
CC149869		<20	0.01	<10	<10	87	<10	44
CC149870		<20	0.01	<10	<10	81	<10	120
CC149871		<20	0.01	<10	<10	57	<10	49
CC149872		<20	0.01	<10	<10	53	<10	30
CC149873		<20	0.02	<10	<10	45	<10	35
CC149874		<20	0.01	<10	<10	31	<10	54
CC149875		<20	0.01	<10	<10	33	<10	40
CC149801		<20	0.02	<10	<10	57	<10	73
CC149802		<20	0.01	<10	<10	91	<10	114
CC149803		<20	0.01	<10	<10	41	<10	68
CC149804		<20	0.01	<10	<10	38	<10	76
CC149805		<20	0.01	<10	<10	44	<10	76
CC149806		<20	0.01	<10	<10	41	<10	102
CC149807		<20	0.01	<10	<10	34	<10	63
CC149771		<20	0.01	<10	<10	35	<10	52
CC149772		<20	0.01	<10	<10	28	<10	54
CC149773		<20	0.01	<10	<10	27	<10	31
CC149774		<20	0.01	<10	<10	26	<10	59
CC149775		<20	0.01	<10	<10	23	<10	49
CC149776		<20	0.01	<10	<10	28	<10	41
CC149777		<20	0.01	<10	<10	21	<10	41
CC149778		<20	0.01	<10	<10	30	<10	42
CC149779		<20	0.01	<10	<10	60	<10	90
CC149780		<20	0.01	<10	<10	21	<10	50
CC149781		<20	0.01	<10	<10	27	<10	48
CC149782		<20	<0.01	<10	<10	19	<10	64
CC149783		<20	<0.01	<10	<10	22	<10	71
CC149784		<20	0.01	<10	<10	45	<10	80
CC149785		<20	0.01	<10	<10	25	<10	52



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149786		0.16	<0.001	<0.2	0.95	<2	10	120	<0.5	<2	0.12	0.5	133	1770	13	5.15
CC149787		0.14	NSS	<0.2	0.61	<2	<10	220	<0.5	<2	0.95	<0.5	15	176	18	0.92
CC149788		0.34	0.002	0.4	1.14	11	<10	430	0.6	<2	0.75	0.9	9	32	43	2.32
CC149789		0.32	0.002	0.4	1.08	12	<10	370	<0.5	<2	0.60	0.6	10	52	25	2.19
CC149790		0.12	<0.001	0.3	1.50	6	<10	680	<0.5	<2	0.19	<0.5	13	24	16	2.13
CC149791		0.22	<0.001	<0.2	0.67	5	<10	230	<0.5	<2	0.03	<0.5	6	11	16	1.65
CC149792		0.22	<0.001	<0.2	1.21	4	<10	800	<0.5	<2	0.05	<0.5	8	16	15	2.05
CC149793		0.12	0.003	<0.2	0.88	6	<10	750	<0.5	<2	0.09	<0.5	7	13	22	1.84
CC149794		0.24	0.004	1.2	2.85	11	<10	3900	1.8	<2	1.34	<0.5	19	35	159	3.79
CC149795		0.20	0.008	1.1	1.56	12	<10	2820	0.9	<2	0.85	<0.5	15	25	92	3.19
CC149876		0.28	<0.001	<0.2	0.93	4	<10	250	<0.5	<2	0.04	<0.5	4	11	24	1.48
CC149877		0.16	0.002	<0.2	1.11	8	<10	300	<0.5	<2	0.04	<0.5	6	18	22	2.35
CC149878		0.22	<0.001	<0.2	0.90	6	<10	630	<0.5	<2	0.06	<0.5	5	14	12	1.69
CC149879		0.32	<0.001	<0.2	1.34	10	<10	680	<0.5	<2	0.03	<0.5	7	15	23	2.16
CC149880		0.34	0.004	<0.2	1.62	11	<10	810	<0.5	<2	0.32	<0.5	11	56	52	3.16
CC149881		0.22	0.001	<0.2	0.91	5	<10	1210	<0.5	<2	0.58	<0.5	11	14	32	1.74
CC149882		0.22	0.001	<0.2	1.48	41	<10	1200	0.5	<2	0.14	<0.5	49	390	48	8.22
CC149883		0.18	<0.001	<0.2	0.63	3	<10	830	<0.5	<2	0.28	<0.5	6	17	17	0.84
CC149884		0.34	0.002	<0.2	0.84	7	<10	940	<0.5	<2	0.50	<0.5	12	29	28	1.64
CC149885		0.28	0.001	<0.2	0.66	4	<10	760	<0.5	<2	0.40	<0.5	9	21	21	1.45
CC149886		0.20	0.004	0.3	1.07	7	<10	1270	<0.5	<2	0.82	0.5	15	67	29	1.82
CC149887		0.26	0.005	0.2	0.83	7	<10	840	<0.5	<2	0.49	<0.5	11	40	33	1.77
CC149888		0.26	0.005	0.2	0.80	8	<10	940	<0.5	<2	0.31	<0.5	16	26	28	1.87
CC149889		0.18	0.010	0.2	0.85	7	<10	1080	<0.5	<2	0.82	0.5	10	17	40	1.60
CC149890		0.22	0.007	0.2	1.07	5	<10	1430	<0.5	<2	0.21	<0.5	15	62	50	1.89
CC149891		0.24	0.003	0.2	0.92	5	<10	810	<0.5	<2	0.17	<0.5	10	35	44	2.00
CC149892		0.28	0.007	<0.2	0.79	5	<10	1050	<0.5	<2	0.18	<0.5	13	45	55	1.73
CC149893		0.28	<0.001	<0.2	1.56	2	20	330	<0.5	<2	0.17	<0.5	79	1115	34	4.76
CC149894		0.10	NSS	<0.2	1.23	7	<10	850	<0.5	<2	0.09	<0.5	81	50	34	2.70
CC149895		0.12	<0.001	<0.2	1.24	8	<10	690	<0.5	<2	0.16	<0.5	10	39	29	2.64
CC149101		0.24	0.004	0.4	0.86	8	<10	450	<0.5	<2	0.99	<0.5	7	15	23	1.76
CC149102		0.30	0.007	0.4	1.05	9	<10	480	0.5	<2	0.83	1.3	9	16	39	2.14
CC149103		0.24	0.010	0.3	0.62	14	<10	740	<0.5	<2	0.64	0.5	10	24	44	2.22
CC149104		0.26	0.029	0.5	0.67	20	<10	1020	<0.5	<2	1.44	0.7	11	25	70	1.70
CC149105		0.18	0.016	0.3	0.49	41	<10	940	<0.5	<2	0.73	<0.5	16	25	54	1.88
CC149106		0.24	0.001	<0.2	0.26	24	<10	360	<0.5	<2	0.03	<0.5	10	5	106	2.56
CC149107		0.26	0.001	<0.2	0.36	7	<10	300	<0.5	<2	0.02	<0.5	4	6	30	1.30
CC149108		0.42	0.028	<0.2	0.86	6	<10	430	<0.5	<2	0.02	<0.5	6	12	26	2.05
CC149109		0.32	0.002	<0.2	0.71	6	<10	310	<0.5	<2	0.04	<0.5	6	12	24	1.87
CC149110		0.42	0.002	<0.2	0.59	6	<10	240	<0.5	<2	0.07	<0.5	7	10	24	1.76



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CERTIFICATE OF ANALYSIS WH11144990

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149786		<10	<1	0.01	<10	17.25	1000	<1	0.02	1555	70	<2	<0.01	<2	9	10
CC149787		<10	<1	0.02	<10	1.53	311	<1	0.04	238	380	2	0.06	<2	2	64
CC149788		<10	<1	0.13	20	0.57	641	3	0.02	157	810	16	0.01	<2	3	51
CC149789		<10	<1	0.11	20	0.85	392	2	0.02	108	880	16	0.02	<2	3	44
CC149790		10	<1	0.07	10	0.29	2340	1	0.03	12	470	14	0.01	<2	2	16
CC149791		<10	<1	0.05	10	0.17	424	1	0.01	17	330	6	<0.01	<2	1	6
CC149792		<10	<1	0.08	10	0.20	788	1	0.02	20	370	10	<0.01	<2	2	9
CC149793		<10	<1	0.07	10	0.19	891	1	0.02	23	330	6	0.01	<2	1	11
CC149794		10	<1	0.25	20	0.44	2290	3	0.04	79	1090	19	0.04	<2	7	109
CC149795		<10	<1	0.09	20	0.39	884	3	0.03	60	1220	14	0.06	<2	4	68
CC149876		<10	<1	0.07	10	0.17	204	1	0.02	13	220	7	<0.01	<2	1	8
CC149877		<10	<1	0.07	20	0.36	315	1	0.01	23	150	6	<0.01	<2	2	7
CC149878		<10	<1	0.05	20	0.23	303	1	0.02	15	140	8	<0.01	<2	1	9
CC149879		<10	<1	0.04	20	0.27	232	1	0.01	21	120	7	<0.01	<2	2	7
CC149880		<10	<1	0.06	10	0.71	473	1	0.02	46	170	9	<0.01	<2	6	19
CC149881		<10	<1	0.06	10	0.34	1010	1	0.02	30	320	10	0.01	<2	1	27
CC149882		<10	<1	0.10	10	0.33	1065	3	0.02	746	550	18	0.01	10	3	18
CC149883		<10	<1	0.05	10	0.18	424	<1	0.03	24	590	5	0.02	<2	1	24
CC149884		<10	<1	0.06	10	0.32	849	1	0.02	44	470	8	0.02	<2	2	36
CC149885		<10	<1	0.04	10	0.29	291	1	0.02	32	290	8	0.02	<2	2	27
CC149886		<10	<1	0.09	10	0.46	940	1	0.02	41	590	10	0.05	<2	5	63
CC149887		<10	<1	0.07	10	0.41	747	2	0.02	40	590	12	0.02	<2	2	39
CC149888		<10	<1	0.07	10	0.32	1610	3	0.02	31	620	13	0.02	<2	2	28
CC149889		<10	<1	0.08	10	0.27	1785	1	0.03	41	520	9	0.04	<2	2	56
CC149890		<10	<1	0.14	10	0.37	878	1	0.02	53	450	7	0.02	<2	2	25
CC149891		<10	<1	0.11	10	0.30	657	2	0.01	40	400	10	0.01	<2	2	19
CC149892		<10	<1	0.08	20	0.42	306	1	0.01	64	460	11	0.01	<2	2	22
CC149893		<10	<1	0.03	10	15.55	763	<1	0.02	1460	160	<2	<0.01	<2	11	14
CC149894		10	<1	0.04	10	0.26	4000	1	0.02	63	360	13	0.02	<2	1	17
CC149895		<10	<1	0.09	20	0.57	509	1	0.02	42	440	11	<0.01	<2	3	16
CC149101		<10	<1	0.08	10	0.45	364	2	0.02	20	770	16	0.04	<2	2	123
CC149102		<10	<1	0.11	20	0.46	515	2	0.02	33	840	17	0.02	<2	3	79
CC149103		<10	<1	0.06	10	0.41	704	2	0.02	40	910	13	0.02	<2	3	49
CC149104		<10	<1	0.08	10	0.39	991	1	0.02	47	510	29	0.06	<2	3	116
CC149105		<10	<1	0.07	10	0.25	1430	2	0.02	45	370	60	0.05	<2	3	70
CC149106		<10	<1	0.06	20	0.02	1055	2	0.01	38	290	9	<0.01	2	1	9
CC149107		<10	<1	0.04	20	0.03	308	1	0.01	17	170	5	<0.01	<2	1	8
CC149108		<10	<1	0.05	20	0.22	301	2	0.01	19	140	7	<0.01	<2	1	7
CC149109		<10	<1	0.07	20	0.22	260	1	0.01	19	130	6	<0.01	<2	1	8
CC149110		<10	<1	0.06	20	0.20	234	1	0.01	20	150	6	<0.01	<2	1	9



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CERTIFICATE OF ANALYSIS WH11144990

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149786		<20	0.01	<10	<10	46	<10	95
CC149787		<20	0.01	<10	<10	14	<10	19
CC149788		<20	0.01	<10	<10	40	<10	129
CC149789		<20	0.01	<10	<10	39	<10	126
CC149790		<20	0.01	<10	<10	44	<10	146
CC149791		<20	0.01	<10	<10	21	<10	50
CC149792		<20	0.01	<10	<10	35	<10	110
CC149793		<20	0.01	<10	<10	28	<10	56
CC149794		<20	0.01	<10	<10	61	<10	102
CC149795		<20	<0.01	<10	<10	32	<10	57
CC149876		<20	0.01	<10	<10	26	<10	39
CC149877		<20	<0.01	<10	<10	28	<10	47
CC149878		<20	0.01	<10	<10	26	<10	37
CC149879		<20	0.01	<10	<10	29	<10	43
CC149880		<20	0.01	<10	<10	54	<10	66
CC149881		<20	0.01	<10	<10	20	<10	52
CC149882		<20	0.01	<10	<10	67	<10	62
CC149883		<20	0.01	<10	<10	15	<10	20
CC149884		<20	0.01	<10	<10	19	<10	46
CC149885		<20	0.01	<10	<10	16	<10	37
CC149886		<20	0.01	<10	<10	33	<10	49
CC149887		<20	<0.01	<10	<10	21	<10	68
CC149888		<20	0.01	<10	<10	20	<10	66
CC149889		<20	0.01	<10	<10	18	<10	72
CC149890		<20	0.01	<10	<10	25	<10	58
CC149891		<20	0.01	<10	<10	23	<10	68
CC149892		<20	0.01	<10	<10	19	<10	73
CC149893		<20	0.02	<10	<10	52	<10	25
CC149894		<20	0.03	<10	<10	57	<10	52
CC149895		<20	0.01	<10	<10	35	<10	71
CC149101		<20	0.01	<10	<10	29	<10	73
CC149102		<20	0.01	<10	<10	31	<10	131
CC149103		<20	0.02	<10	<10	26	<10	120
CC149104		<20	<0.01	<10	<10	14	<10	196
CC149105		<20	<0.01	<10	<10	10	<10	140
CC149106		<20	<0.01	<10	<10	12	<10	114
CC149107		<20	0.01	<10	<10	24	<10	56
CC149108		<20	<0.01	<10	<10	22	<10	45
CC149109		<20	0.01	<10	<10	21	<10	45
CC149110		<20	<0.01	<10	<10	17	<10	45



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Project: WLW- Loop

CERTIFICATE OF ANALYSIS WH11144990

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



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CERTIFICATE WH11149814

Project: Wolverine - LOOP

P.O. No.:

This report is for 199 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

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: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
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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Project: Wolverine - LOOP

CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149501		0.18	0.003	0.4	0.59	13	<10	260	<0.5	<2	0.06	1.2	33	106	31	3.55
CC149502		0.22	0.006	0.6	0.76	7	<10	760	<0.5	<2	0.85	0.8	11	33	56	2.01
CC149503		0.16	0.005	0.4	0.65	7	<10	470	<0.5	<2	1.39	<0.5	10	21	41	1.86
CC149504		0.36	0.009	0.5	0.83	15	<10	370	<0.5	<2	0.65	0.7	15	46	60	2.37
CC149505		0.18	0.006	0.3	0.76	13	<10	350	<0.5	<2	0.39	<0.5	13	52	33	2.20
CC149506		0.16	0.005	0.3	0.83	7	<10	940	<0.5	<2	1.23	<0.5	8	35	40	1.55
CC149507		0.24	0.006	0.3	0.75	11	<10	390	<0.5	<2	0.33	<0.5	12	34	39	2.27
CC149508		0.32	0.006	0.2	0.87	11	<10	660	0.5	<2	0.44	<0.5	12	38	47	2.23
CC149509		0.26	0.005	<0.2	0.51	12	<10	370	<0.5	<2	0.35	<0.5	9	38	21	1.31
CC149510		0.26	0.007	0.2	1.15	10	<10	450	<0.5	<2	0.81	<0.5	23	227	51	2.46
CC149511		0.22	0.007	0.2	1.35	10	<10	720	<0.5	<2	0.65	<0.5	24	200	81	2.63
CC149512		0.18	0.004	0.4	1.14	5	<10	950	<0.5	<2	1.39	0.7	11	33	68	1.60
CC149513		0.20	0.004	0.2	1.23	10	<10	690	<0.5	<2	0.88	<0.5	15	47	40	2.32
CC149514		0.24	0.004	<0.2	0.88	7	<10	570	<0.5	<2	0.37	<0.5	12	29	42	1.84
CC149515		0.38	0.007	0.2	1.12	7	<10	1060	<0.5	<2	0.44	<0.5	11	31	67	2.04
CC149516		0.24	0.004	0.2	1.12	5	<10	740	<0.5	<2	0.57	<0.5	15	26	45	2.06
CC149517		0.28	0.006	0.2	1.14	6	<10	590	<0.5	<2	0.57	<0.5	11	31	65	2.29
CC149518		0.30	0.002	<0.2	1.00	8	<10	350	<0.5	<2	0.05	<0.5	7	19	17	1.80
CC149519		0.20	0.011	<0.2	1.15	8	<10	660	<0.5	<2	0.81	<0.5	12	30	29	2.19
CC149520		0.22	0.003	0.2	1.26	6	<10	870	<0.5	<2	0.64	<0.5	10	27	46	1.84
CC149521		0.20	0.012	0.2	1.00	6	<10	240	<0.5	<2	0.11	<0.5	10	42	12	2.19
CC149522		0.18	<0.001	0.2	1.16	7	<10	470	<0.5	<2	0.22	<0.5	10	36	20	2.29
CC149523		0.16	<0.001	0.2	0.96	2	<10	490	<0.5	<2	0.28	<0.5	8	16	10	1.63
CC149524		0.24	0.003	<0.2	2.64	10	<10	330	0.9	<2	0.28	<0.5	19	54	39	4.21
CC149525		0.26	0.003	0.2	1.59	6	<10	160	0.5	<2	1.05	<0.5	14	25	35	2.56
CC149526		0.20	0.001	<0.2	0.87	4	<10	50	<0.5	<2	0.16	<0.5	7	16	12	2.55
CC149527		0.24	0.031	0.4	0.88	4	<10	420	<0.5	<2	2.46	<0.5	10	21	122	1.42
CC149528		0.26	0.006	0.2	0.85	7	<10	630	<0.5	<2	0.51	<0.5	13	49	41	2.10
CC149529		0.34	0.006	0.2	1.16	21	<10	760	<0.5	<2	0.55	0.6	24	92	43	3.41
CC149530		0.22	0.004	<0.2	0.60	3	<10	310	<0.5	<2	1.41	<0.5	9	31	21	0.84
CC149531		0.22	0.004	0.3	1.37	9	<10	960	<0.5	<2	0.64	<0.5	27	216	48	2.53
CC149532		0.18	0.003	0.2	1.63	9	<10	740	<0.5	<2	0.89	<0.5	29	312	46	2.87
CC149533		0.20	0.003	0.2	1.20	4	<10	490	<0.5	<2	2.04	<0.5	19	228	67	1.74
CC149534		0.20	0.002	<0.2	0.69	10	<10	360	<0.5	<2	0.10	<0.5	7	12	25	1.74
CC149535		0.24	0.003	<0.2	1.02	9	<10	410	0.5	<2	0.25	<0.5	8	40	37	1.87
CC149536		0.24	<0.001	<0.2	0.71	5	<10	190	<0.5	<2	0.08	<0.5	14	33	35	2.44
CC149537		0.32	<0.001	<0.2	1.27	9	<10	280	<0.5	<2	0.17	<0.5	20	150	15	2.50
CC149538		0.42	0.001	<0.2	1.57	10	<10	270	<0.5	<2	0.29	<0.5	50	620	23	3.84
CC149539		0.18	0.004	0.3	1.38	9	<10	440	<0.5	<2	2.07	<0.5	31	236	47	3.41
CC149540		0.40	0.003	0.5	1.16	17	<10	440	0.6	<2	1.64	1.6	12	17	45	2.64



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VANCOUVER BC V6B 1L8

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Project: Wolverine - LOOP

CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	ME- ICP41 Ca ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149501		<10	<1	0.04	10	0.67	1570	2	0.01	419	1110	18	0.05	4	1	54
CC149502		<10	<1	0.09	10	0.40	599	1	0.02	56	530	17	0.04	2	3	44
CC149503		<10	<1	0.06	10	0.34	510	1	0.02	41	550	12	0.06	2	2	57
CC149504		<10	<1	0.11	10	0.60	747	4	0.02	128	980	15	0.02	3	4	45
CC149505		<10	<1	0.07	10	0.55	524	3	0.02	83	570	13	0.02	3	3	29
CC149506		<10	<1	0.08	10	0.54	395	1	0.02	96	630	9	0.08	<2	2	63
CC149507		<10	<1	0.07	10	0.44	559	2	0.01	61	580	15	0.02	2	3	23
CC149508		<10	<1	0.08	10	0.40	597	2	0.02	79	290	11	0.03	2	3	27
CC149509		<10	<1	0.05	10	0.53	317	1	0.02	60	550	7	0.03	3	1	34
CC149510		<10	<1	0.10	10	2.65	461	1	0.02	405	370	12	0.03	2	5	54
CC149511		<10	<1	0.08	10	1.71	800	1	0.02	208	470	11	0.03	2	5	38
CC149512		<10	<1	0.11	10	0.41	1845	1	0.03	73	900	8	0.12	2	2	95
CC149513		<10	<1	0.13	10	0.58	697	1	0.02	92	450	10	0.05	<2	3	55
CC149514		<10	<1	0.07	10	0.42	911	1	0.01	41	470	12	0.02	<2	3	30
CC149515		<10	<1	0.11	10	0.41	598	1	0.02	38	600	11	0.03	2	3	36
CC149516		<10	<1	0.08	10	0.47	1210	2	0.02	31	550	12	0.04	2	3	35
CC149517		<10	<1	0.10	10	0.49	641	1	0.02	35	480	12	0.03	<2	4	33
CC149518		<10	<1	0.06	10	0.26	387	2	0.01	15	120	7	<0.01	<2	1	8
CC149519		<10	<1	0.07	10	0.52	546	2	<0.01	30	310	10	0.03	<2	3	44
CC149520		<10	<1	0.11	10	0.44	455	1	0.01	31	480	6	0.03	<2	3	39
CC149521		<10	<1	0.06	20	0.34	324	1	<0.01	25	150	6	<0.01	<2	1	13
CC149522		<10	<1	0.09	10	0.36	303	1	<0.01	31	230	7	0.01	<2	2	24
CC149523		<10	<1	0.08	10	0.19	603	2	0.01	9	210	5	0.01	<2	1	1370
CC149524		10	<1	0.19	10	1.18	625	2	<0.01	39	280	17	0.01	2	6	32
CC149525		10	<1	0.10	20	0.50	999	4	0.01	16	510	18	0.04	<2	3	92
CC149526		10	<1	0.04	10	0.21	180	2	0.01	7	230	8	0.01	<2	2	29
CC149527		<10	<1	0.06	<10	0.29	1085	2	0.02	34	800	5	0.16	<2	3	202
CC149528		<10	<1	0.07	10	0.40	697	1	<0.01	43	230	10	0.02	<2	2	41
CC149529		<10	<1	0.11	10	0.69	1605	3	0.01	114	970	7	0.03	2	4	61
CC149530		<10	<1	0.05	<10	0.52	537	1	0.02	45	390	4	0.12	<2	1	85
CC149531		<10	<1	0.09	10	2.40	598	1	0.01	238	600	11	0.05	<2	4	43
CC149532		<10	<1	0.10	10	2.87	744	1	<0.01	277	700	9	0.06	2	5	57
CC149533		<10	<1	0.06	10	1.18	619	1	0.01	356	680	6	0.44	<2	4	193
CC149534		<10	<1	0.07	20	0.17	149	4	<0.01	22	360	11	0.01	2	1	14
CC149535		<10	<1	0.08	10	0.32	230	3	<0.01	69	830	19	<0.01	<2	2	22
CC149536		<10	<1	0.06	20	0.22	349	1	<0.01	33	240	4	<0.01	<2	1	13
CC149537		<10	<1	0.05	20	1.61	323	2	<0.01	130	120	8	<0.01	2	1	13
CC149538		<10	<1	0.04	10	6.67	691	1	0.01	454	140	9	<0.01	2	5	13
CC149539		<10	<1	0.03	<10	3.07	773	<1	0.01	344	470	5	0.08	<2	7	111
CC149540		<10	<1	0.17	20	0.81	462	6	0.01	43	1010	21	0.01	3	3	63



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CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC149501		<20	0.01	<10	<10	36	<10
CC149502		<20	<0.01	<10	<10	19	<10
CC149503		<20	0.01	<10	<10	14	<10
CC149504		<20	0.01	<10	<10	27	<10
CC149505		<20	0.01	<10	<10	22	<10
CC149506		<20	0.01	<10	<10	18	<10
CC149507		<20	0.01	<10	<10	20	<10
CC149508		<20	<0.01	<10	<10	22	<10
CC149509		<20	0.01	<10	<10	15	<10
CC149510		<20	0.01	<10	<10	32	<10
CC149511		<20	0.01	<10	<10	34	<10
CC149512		<20	0.01	<10	<10	21	<10
CC149513		<20	0.01	<10	<10	29	<10
CC149514		<20	0.01	<10	<10	24	<10
CC149515		<20	0.01	<10	<10	28	<10
CC149516		<20	0.01	<10	<10	31	<10
CC149517		<20	0.01	<10	<10	31	<10
CC149518		<20	0.01	<10	<10	38	<10
CC149519		<20	0.01	<10	<10	34	<10
CC149520		<20	0.01	<10	<10	30	<10
CC149521		<20	0.01	<10	<10	42	<10
CC149522		<20	0.01	<10	<10	36	<10
CC149523		<20	0.03	<10	<10	34	<10
CC149524		<20	0.03	<10	<10	68	<10
CC149525		<20	0.01	<10	<10	44	<10
CC149526		<20	0.07	<10	<10	92	<10
CC149527		<20	0.01	<10	10	23	<10
CC149528		<20	0.01	<10	<10	28	<10
CC149529		<20	0.01	<10	<10	36	<10
CC149530		<20	0.01	<10	<10	12	<10
CC149531		<20	0.01	<10	<10	30	<10
CC149532		<20	0.01	<10	<10	37	<10
CC149533		<20	0.01	<10	10	20	<10
CC149534		<20	0.01	<10	<10	27	<10
CC149535		<20	<0.01	<10	<10	31	<10
CC149536		<20	0.01	<10	<10	32	<10
CC149537		<20	0.01	<10	<10	30	<10
CC149538		<20	0.01	<10	<10	48	<10
CC149539		<20	0.08	<10	<10	71	<10
CC149540		<20	0.01	<10	<10	43	<10



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CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149541		0.34	0.003	0.3	1.09	12	<10	540	0.5	<2	1.14	0.6	12	41	29	2.11
CC149542		0.30	0.007	0.2	0.59	8	<10	190	<0.5	<2	0.83	<0.5	16	98	71	1.89
CC149543		0.26	0.007	0.2	0.93	5	<10	240	<0.5	<2	0.22	<0.5	19	159	18	1.85
CC149544		0.26	0.002	<0.2	0.94	5	<10	290	<0.5	<2	0.10	<0.5	7	40	11	1.56
CC149545		0.36	0.003	<0.2	1.67	10	<10	520	<0.5	<2	0.36	<0.5	45	486	23	3.74
CC149546		0.32	0.005	<0.2	2.60	7	<10	520	0.5	<2	3.49	<0.5	37	160	39	6.17
CC149547		0.26	0.001	<0.2	1.52	8	<10	690	<0.5	<2	0.80	<0.5	19	112	16	3.43
CC149548		0.18	0.021	<0.2	1.02	6	<10	410	<0.5	<2	0.15	<0.5	10	32	15	2.00
CC149549		0.32	0.001	<0.2	1.07	8	<10	290	<0.5	<2	0.31	<0.5	9	30	15	2.22
CC149550		0.20	0.003	<0.2	1.03	9	<10	320	<0.5	<2	0.14	<0.5	10	66	15	2.20
CC149551		0.38	0.001	0.2	2.25	6	<10	680	<0.5	<2	0.39	0.8	46	258	36	3.29
CC149552		0.22	0.002	<0.2	1.98	6	<10	430	<0.5	<2	0.29	<0.5	29	460	14	3.29
CC149553		0.26	0.017	<0.2	2.35	14	<10	970	1.0	<2	0.47	<0.5	52	280	94	8.17
CC149554		0.30	0.001	<0.2	1.03	<2	<10	650	<0.5	<2	0.26	<0.5	10	52	17	1.62
CC149555		0.30	0.030	<0.2	1.26	2	<10	1370	<0.5	<2	0.48	<0.5	17	127	34	2.19
CC149556		0.30	0.004	0.3	1.77	<2	<10	1000	<0.5	<2	0.52	<0.5	26	293	32	3.26
CC149557		0.28	0.021	0.4	1.58	7	<10	260	0.7	<2	0.84	<0.5	15	34	73	3.03
CC149558		0.34	0.012	0.3	1.67	4	<10	240	0.7	<2	1.20	<0.5	14	49	73	2.88
CC149559		0.28	0.010	0.3	1.33	9	<10	300	0.5	<2	0.75	0.5	14	47	34	2.69
CC149560		0.28	0.008	<0.2	1.58	10	<10	160	0.5	<2	0.56	<0.5	12	35	27	2.91
CC149561		0.16	0.002	<0.2	1.79	<2	<10	120	<0.5	<2	0.12	<0.5	9	36	15	3.48
CC149562		0.30	0.011	<0.2	1.53	3	<10	380	<0.5	<2	0.80	<0.5	28	316	20	2.99
CC149563		0.28	0.004	<0.2	1.78	50	<10	580	<0.5	<2	0.26	<0.5	22	175	29	4.50
CC149564		0.32	0.004	<0.2	1.62	5	<10	830	<0.5	<2	0.14	<0.5	12	80	20	2.13
CC149565		0.22	0.001	<0.2	1.43	2	<10	840	<0.5	<2	0.11	<0.5	9	68	14	2.26
CC149566		0.22	0.002	<0.2	1.47	4	<10	610	<0.5	<2	0.14	<0.5	13	115	21	2.27
CC149567		0.16	0.002	<0.2	1.50	2	<10	560	<0.5	<2	0.25	<0.5	27	383	20	3.70
CC149568		0.24	0.002	<0.2	1.58	3	<10	510	<0.5	<2	0.35	<0.5	18	249	18	2.71
CC149569		0.36	0.004	<0.2	1.56	2	<10	590	<0.5	<2	0.34	<0.5	21	436	17	3.00
CC149570		0.34	0.003	<0.2	1.76	5	<10	920	<0.5	<2	0.24	<0.5	25	245	24	3.34
CC149571		0.26	0.003	<0.2	1.88	12	<10	650	<0.5	<2	0.38	<0.5	17	68	26	3.71
CC149572		0.38	0.006	<0.2	1.21	8	<10	350	<0.5	<2	0.08	<0.5	9	41	31	2.60
CC149573		0.24	0.002	<0.2	1.02	6	<10	280	<0.5	<2	0.11	<0.5	6	22	20	2.15
CC149574		0.24	0.023	0.3	1.12	73	<10	490	<0.5	<2	2.00	<0.5	26	47	105	4.32
CC149575		0.42	0.006	0.4	1.54	6	<10	460	0.5	<2	0.90	<0.5	23	135	85	2.72
CC149576		0.38	0.003	<0.2	2.14	5	<10	240	<0.5	<2	0.76	<0.5	48	598	30	4.54
CC149577		0.30	0.004	<0.2	1.15	7	<10	500	<0.5	<2	0.36	<0.5	11	49	20	2.19
CC149578		0.38	0.004	0.5	1.30	8	<10	520	0.6	<2	1.03	0.8	9	21	37	2.32
CC149579		0.38	0.009	0.7	1.27	7	<10	750	0.8	<2	2.23	<0.5	9	21	69	2.10
CC149580		0.24	0.012	0.4	1.46	5	<10	670	0.6	<2	2.59	<0.5	11	52	132	2.03



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149541		<10	<1	0.10	10	0.82	406	2	0.01	60	740	13	0.05	2	2	68
CC149542		<10	<1	0.06	10	1.29	436	3	0.01	136	330	7	0.04	<2	3	55
CC149543		<10	<1	0.05	10	0.98	610	1	0.02	105	190	7	0.01	<2	3	18
CC149544		<10	<1	0.05	20	0.33	141	1	<0.01	37	110	10	<0.01	<2	1	10
CC149545		<10	<1	0.06	10	4.54	688	1	<0.01	425	100	8	<0.01	<2	7	21
CC149546		10	<1	0.09	<10	2.34	1000	1	0.01	136	410	3	0.02	<2	32	91
CC149547		<10	<1	0.06	10	1.02	500	1	0.01	93	310	9	0.03	<2	5	50
CC149548		<10	<1	0.06	20	0.27	308	1	<0.01	28	150	9	<0.01	<2	2	15
CC149549		<10	<1	0.06	10	0.42	477	2	<0.01	20	170	11	0.01	<2	2	18
CC149550		<10	<1	0.06	20	0.55	218	2	<0.01	44	120	11	<0.01	2	2	12
CC149551		10	<1	0.07	10	2.15	950	1	0.01	207	320	8	0.01	<2	4	20
CC149552		<10	<1	0.04	10	4.27	417	1	<0.01	293	100	7	<0.01	<2	3	12
CC149553		<10	<1	0.10	<10	1.23	1185	<1	0.01	357	280	5	0.01	2	36	22
CC149554		<10	<1	0.06	10	0.38	426	<1	0.01	43	150	7	0.01	<2	2	13
CC149555		<10	<1	0.07	10	1.17	414	<1	0.01	130	190	7	0.02	<2	4	24
CC149556		<10	<1	0.07	10	3.93	440	<1	0.01	329	220	7	0.01	2	4	19
CC149557		<10	<1	0.10	20	0.73	721	5	0.02	30	750	21	0.05	2	4	70
CC149558		10	<1	0.12	20	1.00	568	6	0.02	41	700	22	0.05	<2	5	157
CC149559		<10	<1	0.11	20	0.75	624	6	0.02	46	730	19	0.03	2	4	63
CC149560		10	<1	0.09	10	0.53	401	3	0.02	22	310	14	0.02	<2	3	69
CC149561		10	<1	0.07	10	0.68	191	7	0.02	9	290	6	0.01	<2	4	145
CC149562		<10	<1	0.05	10	2.67	516	<1	0.02	330	240	12	0.03	<2	4	28
CC149563		10	<1	0.06	10	0.96	477	1	0.01	98	260	4	0.01	4	6	12
CC149564		<10	1	0.04	10	0.45	408	<1	0.01	54	130	8	0.01	<2	3	10
CC149565		<10	<1	0.04	10	0.42	334	<1	0.01	36	110	6	0.01	<2	2	6
CC149566		<10	<1	0.03	10	0.74	339	<1	0.01	74	90	5	0.01	<2	2	7
CC149567		<10	<1	0.04	10	1.34	423	<1	0.01	334	130	7	0.02	<2	5	18
CC149568		<10	<1	0.05	10	1.71	426	<1	0.01	130	130	6	0.01	<2	3	13
CC149569		<10	<1	0.03	10	5.42	298	<1	0.01	371	190	6	0.01	<2	3	13
CC149570		<10	<1	0.04	10	1.53	600	<1	0.01	155	120	11	0.01	<2	4	11
CC149571		10	<1	0.05	10	0.66	563	<1	0.01	44	220	5	0.01	<2	5	19
CC149572		<10	<1	0.06	20	0.36	248	1	0.01	33	130	9	<0.01	<2	2	10
CC149573		<10	<1	0.05	10	0.24	294	1	0.01	14	190	4	<0.01	<2	2	11
CC149574		<10	<1	0.07	10	0.76	924	<1	0.01	83	640	7	0.08	3	16	95
CC149575		<10	<1	0.08	10	2.10	639	1	0.01	262	460	10	0.03	2	6	45
CC149576		<10	<1	0.04	10	5.29	802	<1	0.02	384	120	7	0.01	2	7	29
CC149577		<10	1	0.08	20	0.59	417	1	0.01	52	490	11	0.01	<2	3	24
CC149578		<10	<1	0.13	20	0.51	405	2	0.02	35	950	17	0.03	2	3	60
CC149579		<10	<1	0.07	20	0.41	657	1	0.02	56	930	13	0.08	<2	2	119
CC149580		<10	<1	0.06	10	0.55	532	<1	0.01	55	590	11	0.08	<2	6	137



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CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149541		<20	0.01	<10	<10	37	<10	82
CC149542		<20	0.01	<10	<10	19	<10	62
CC149543		<20	0.02	<10	<10	34	<10	50
CC149544		<20	0.01	<10	<10	28	<10	40
CC149545		<20	0.01	<10	<10	55	<10	54
CC149546		<20	0.02	<10	<10	134	<10	58
CC149547		<20	0.01	<10	<10	67	<10	46
CC149548		<20	0.01	<10	<10	36	<10	60
CC149549		<20	0.02	<10	<10	50	<10	47
CC149550		<20	0.01	<10	<10	34	<10	45
CC149551		<20	0.02	<10	<10	56	<10	75
CC149552		<20	0.01	<10	<10	40	<10	54
CC149553		<20	0.01	<10	<10	170	<10	74
CC149554		<20	0.01	<10	<10	26	<10	36
CC149555		<20	0.01	<10	<10	27	<10	50
CC149556		<20	0.01	<10	<10	32	<10	53
CC149557		<20	0.01	<10	<10	35	<10	77
CC149558		<20	0.03	<10	<10	49	<10	104
CC149559		<20	0.02	<10	<10	41	<10	94
CC149560		<20	0.02	<10	<10	45	<10	49
CC149561		<20	0.20	<10	<10	100	<10	55
CC149562		<20	0.01	<10	<10	33	<10	34
CC149563		<20	0.01	<10	<10	80	<10	61
CC149564		<20	0.01	<10	<10	51	<10	52
CC149565		<20	0.01	<10	<10	47	<10	45
CC149566		<20	0.01	<10	<10	37	<10	41
CC149567		<20	0.01	<10	<10	58	<10	41
CC149568		<20	0.02	<10	<10	45	<10	37
CC149569		<20	0.02	<10	<10	30	<10	33
CC149570		<20	0.03	<10	<10	56	<10	41
CC149571		<20	0.02	<10	<10	97	<10	49
CC149572		<20	0.01	<10	<10	49	<10	49
CC149573		<20	0.01	<10	<10	56	<10	34
CC149574		<20	0.01	<10	<10	59	<10	151
CC149575		<20	0.01	<10	<10	43	<10	65
CC149576		<20	0.08	<10	<10	89	<10	63
CC149577		<20	0.01	<10	<10	40	<10	86
CC149578		<20	0.02	<10	<10	55	<10	133
CC149579		<20	0.01	<10	<10	41	<10	71
CC149580		<20	0.01	<10	<10	49	<10	50



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CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149581		0.20	0.002	<0.2	1.53	3	<10	400	<0.5	<2	0.43	<0.5	9	70	19	2.36
CC149582		0.24	0.004	<0.2	1.94	24	<10	400	<0.5	<2	0.34	<0.5	21	145	20	3.98
CC149583		0.30	0.002	0.2	1.22	4	<10	380	<0.5	<2	1.05	<0.5	14	89	16	2.66
CC149584		0.28	0.005	0.4	1.75	3	<10	820	0.6	<2	0.88	<0.5	14	64	80	3.12
CC149585		0.26	0.006	<0.2	2.28	4	<10	640	1.0	<2	0.54	<0.5	26	135	83	7.64
CC149586		0.44	0.001	<0.2	2.10	5	<10	630	<0.5	<2	0.19	<0.5	14	74	31	3.63
CC149587		0.44	0.003	<0.2	2.51	10	<10	420	0.5	<2	0.43	<0.5	22	158	49	4.58
CC149588		0.36	0.004	<0.2	2.03	9	<10	730	<0.5	<2	0.38	<0.5	23	230	29	3.66
CC149589		0.28	0.007	<0.2	2.26	5	<10	430	<0.5	<2	0.76	<0.5	37	493	90	3.62
CC149590		0.20	0.002	<0.2	1.44	5	<10	350	<0.5	<2	0.38	<0.5	15	190	18	2.69
CC149591		0.24	0.090	0.2	1.34	1105	<10	990	0.7	<2	0.52	<0.5	69	250	48	7.10
CC149592		0.34	0.008	0.2	1.07	24	<10	580	<0.5	<2	0.47	<0.5	14	89	36	2.43
CC149593		0.30	0.008	0.5	1.63	14	<10	860	0.6	<2	1.11	0.6	29	181	96	2.86
CC149594		0.26	0.006	<0.2	0.51	10	<10	200	<0.5	<2	1.58	<0.5	9	50	29	0.87
CC149595		0.22	0.004	<0.2	1.41	17	<10	410	<0.5	<2	0.98	<0.5	24	111	37	2.72
CC149596		0.24	0.022	<0.2	2.07	30	<10	480	0.5	<2	0.76	<0.5	27	155	51	4.82
CC149597		0.20	0.001	<0.2	2.42	7	<10	460	0.6	<2	0.63	<0.5	18	127	34	4.71
CC149598		0.28	0.001	<0.2	2.38	7	<10	330	<0.5	<2	0.60	<0.5	24	126	21	5.13
CC149599		0.26	0.003	<0.2	2.01	8	<10	720	<0.5	<2	0.24	<0.5	13	45	31	3.31
CC149600		0.24	0.001	<0.2	2.02	6	<10	260	<0.5	<2	0.19	<0.5	12	47	26	3.23
CC149601		0.22	0.004	<0.2	0.58	11	<10	170	<0.5	<2	0.03	<0.5	6	18	13	1.80
CC149602		0.28	0.006	0.4	1.16	7	<10	620	<0.5	<2	1.03	0.6	18	107	42	2.08
CC149603		0.12	0.006	0.2	0.70	5	<10	390	<0.5	<2	1.22	0.6	6	14	15	1.05
CC149604		0.24	0.007	0.5	0.77	8	<10	490	<0.5	<2	0.75	<0.5	11	26	46	2.01
CC149605		0.26	0.019	0.3	0.77	9	<10	450	<0.5	<2	0.39	<0.5	10	32	50	2.00
CC149606		0.22	0.006	0.2	0.83	9	<10	510	<0.5	<2	0.73	<0.5	10	18	39	1.98
CC149607		0.12	0.006	0.4	1.12	11	<10	790	<0.5	<2	1.07	<0.5	15	85	37	2.27
CC149608		0.12	0.006	0.3	1.20	11	<10	570	<0.5	<2	1.73	<0.5	20	136	50	4.32
CC149609		0.40	0.008	0.2	1.38	11	<10	720	<0.5	<2	0.75	0.5	28	254	55	2.77
CC149610		0.26	0.004	0.3	1.19	7	<10	560	<0.5	<2	0.93	0.5	19	162	39	2.28
CC149611		0.28	0.004	0.3	1.04	9	<10	410	<0.5	<2	0.89	0.6	13	79	37	2.03
CC149612		0.12	0.005	<0.2	0.49	4	<10	910	<0.5	<2	0.09	<0.5	3	30	26	0.80
CC149613		0.26	0.007	<0.2	0.69	6	<10	520	<0.5	<2	0.02	<0.5	10	30	42	1.74
CC149614		0.24	0.002	<0.2	0.56	8	<10	380	<0.5	<2	0.07	<0.5	5	17	9	1.16
CC149615		0.20	0.015	<0.2	1.84	10	<10	360	0.5	<2	0.11	<0.5	18	31	72	3.34
CC149616		0.26	0.016	0.8	1.61	3	<10	510	0.7	<2	1.83	<0.5	13	17	53	2.53
CC149617		0.26	0.006	<0.2	1.67	6	<10	240	<0.5	<2	0.05	<0.5	11	31	21	3.08
CC149618		0.26	0.007	<0.2	1.43	3	<10	310	<0.5	<2	0.09	<0.5	9	21	8	2.29
CC149619		0.24	0.004	<0.2	1.71	7	<10	570	<0.5	<2	0.17	<0.5	12	38	15	3.46
CC149620		0.18	0.001	<0.2	0.99	9	<10	300	<0.5	<2	0.08	<0.5	12	45	21	3.00



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149581		<10	<1	0.05	10	0.54	277	1	0.01	34	120	10	0.01	<2	3	22
CC149582		<10	<1	0.06	10	1.08	445	1	0.01	133	160	8	0.01	2	5	17
CC149583		<10	<1	0.05	10	0.84	473	1	0.01	59	230	8	0.03	<2	3	42
CC149584		<10	<1	0.09	10	0.70	722	1	0.01	48	490	9	0.03	<2	22	35
CC149585		10	<1	0.06	10	1.01	1650	<1	0.01	86	350	2	0.01	2	35	27
CC149586		10	<1	0.04	10	0.73	471	<1	0.01	45	160	7	0.01	<2	6	12
CC149587		10	<1	0.05	10	1.39	563	<1	0.02	101	170	6	0.01	<2	7	13
CC149588		10	<1	0.05	10	1.85	679	<1	0.01	139	150	9	0.01	<2	5	13
CC149589		<10	<1	0.04	10	4.70	551	<1	0.02	366	190	4	0.02	<2	9	24
CC149590		<10	<1	0.04	10	1.30	327	1	0.01	98	140	6	<0.01	2	2	13
CC149591		<10	<1	0.05	<10	0.30	1615	3	0.01	503	270	<2	0.01	44	25	21
CC149592		<10	<1	0.07	10	0.64	414	1	0.01	88	260	9	0.01	2	5	19
CC149593		<10	<1	0.10	10	1.55	934	<1	0.02	644	400	9	0.05	2	10	84
CC149594		<10	<1	0.05	<10	0.54	363	<1	0.03	83	360	2	0.08	<2	2	75
CC149595		<10	<1	0.05	<10	0.75	1290	<1	0.02	82	520	5	0.04	3	8	37
CC149596		<10	1	0.08	10	1.34	1085	<1	0.01	100	480	3	0.02	4	16	27
CC149597		10	<1	0.03	10	0.69	923	1	0.01	67	400	7	0.02	<2	6	34
CC149598		10	<1	0.07	<10	1.21	616	<1	0.02	65	240	3	<0.01	3	6	20
CC149599		10	<1	0.04	10	0.40	598	2	0.01	28	250	7	<0.01	2	5	16
CC149600		10	<1	0.04	10	0.77	411	1	0.01	25	190	5	<0.01	<2	4	14
CC149601		<10	<1	0.04	20	0.11	215	1	0.01	16	110	8	<0.01	2	1	9
CC149602		<10	<1	0.09	10	1.63	452	2	0.02	209	730	14	0.05	2	3	50
CC149603		<10	<1	0.05	10	0.35	954	1	0.02	23	770	12	0.06	<2	1	61
CC149604		<10	<1	0.08	10	0.36	722	3	0.01	35	1100	16	0.03	2	2	47
CC149605		<10	<1	0.09	20	0.36	297	2	0.01	54	690	12	0.01	2	3	31
CC149606		<10	<1	0.09	10	0.43	407	2	0.02	40	520	12	0.03	2	2	38
CC149607		<10	<1	0.07	10	0.82	1030	2	0.02	142	880	11	0.08	2	3	73
CC149608		<10	<1	0.08	10	1.46	626	1	0.02	258	800	7	0.14	2	4	170
CC149609		<10	<1	0.12	10	3.34	556	1	0.01	341	490	12	0.03	<2	5	42
CC149610		<10	<1	0.10	10	1.66	685	1	0.01	205	650	11	0.05	<2	4	65
CC149611		<10	<1	0.10	10	1.07	308	3	0.02	123	530	12	0.04	3	3	46
CC149612		<10	<1	0.06	10	0.05	109	1	0.03	22	220	6	0.02	<2	1	11
CC149613		<10	<1	0.05	20	0.30	481	1	0.01	39	120	8	0.01	<2	2	10
CC149614		<10	<1	0.05	10	0.15	210	1	0.01	16	120	5	<0.01	<2	1	10
CC149615		10	1	0.10	30	0.69	679	1	0.01	26	180	21	0.01	<2	3	22
CC149616		<10	1	0.08	30	0.57	916	1	0.02	14	470	48	0.05	<2	3	227
CC149617		<10	<1	0.05	20	0.58	357	1	0.01	25	150	7	<0.01	<2	2	7
CC149618		10	<1	0.08	20	0.28	456	1	0.01	12	250	11	<0.01	<2	2	9
CC149619		10	<1	0.06	20	0.40	440	1	0.01	26	200	11	<0.01	2	3	13
CC149620		<10	<1	0.07	20	0.41	610	2	0.01	33	150	10	<0.01	<2	2	11



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC149581		<20	0.01	<10	<10	69	<10
CC149582		<20	0.01	<10	<10	72	<10
CC149583		<20	0.01	<10	<10	48	<10
CC149584		<20	0.01	<10	<10	65	<10
CC149585		<20	<0.01	<10	<10	192	<10
CC149586		<20	0.01	<10	<10	102	<10
CC149587		<20	0.08	<10	<10	114	<10
CC149588		<20	0.04	<10	<10	72	<10
CC149589		<20	0.04	<10	<10	66	<10
CC149590		<20	0.07	<10	<10	67	<10
CC149591		<20	<0.01	<10	<10	87	<10
CC149592		<20	0.01	<10	<10	34	<10
CC149593		<20	0.01	<10	<10	50	<10
CC149594		<20	0.01	<10	<10	17	<10
CC149595		<20	0.02	<10	<10	51	<10
CC149596		<20	0.01	<10	<10	83	<10
CC149597		<20	0.02	<10	<10	92	<10
CC149598		<20	0.03	<10	<10	117	<10
CC149599		<20	0.02	<10	<10	98	<10
CC149600		<20	0.15	<10	<10	119	<10
CC149601		<20	0.01	<10	<10	26	<10
CC149602		<20	0.01	<10	<10	28	<10
CC149603		<20	0.01	<10	<10	17	<10
CC149604		<20	0.01	<10	<10	25	<10
CC149605		<20	0.01	<10	<10	22	<10
CC149606		<20	0.01	<10	<10	18	<10
CC149607		<20	0.01	<10	<10	27	<10
CC149608		<20	0.01	<10	<10	37	<10
CC149609		<20	0.01	<10	<10	33	<10
CC149610		<20	0.01	<10	<10	31	<10
CC149611		<20	0.01	<10	<10	29	<10
CC149612		<20	0.01	<10	<10	23	<10
CC149613		<20	0.01	<10	<10	17	<10
CC149614		<20	0.01	<10	<10	23	<10
CC149615		<20	0.01	<10	<10	36	<10
CC149616		<20	<0.01	<10	<10	22	<10
CC149617		<20	0.01	<10	<10	38	<10
CC149618		<20	0.01	<10	<10	46	<10
CC149619		<20	0.01	<10	<10	58	<10
CC149620		<20	0.01	<10	<10	41	<10



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149621		0.20	0.003	<0.2	0.63	6	<10	350	<0.5	<2	0.40	<0.5	5	22	15	1.36
CC149622		0.28	0.001	<0.2	2.82	6	<10	260	0.5	<2	0.27	<0.5	13	70	17	4.84
CC149623		0.24	0.003	<0.2	2.18	9	<10	140	0.6	<2	0.14	<0.5	14	31	22	3.91
CC149624		0.22	0.003	<0.2	1.23	5	<10	220	<0.5	<2	0.09	<0.5	9	29	12	2.38
CC149625		0.28	0.002	<0.2	2.04	5	<10	260	<0.5	<2	0.78	<0.5	10	16	16	2.20
CC149626		0.30	0.013	<0.2	1.82	17	<10	120	<0.5	<2	0.82	<0.5	14	35	39	3.32
CC149627		0.26	0.017	0.2	2.00	20	<10	100	0.5	<2	0.06	<0.5	13	36	43	4.58
CC149628		0.26	0.004	<0.2	2.22	25	<10	170	<0.5	<2	0.33	<0.5	12	15	24	3.69
CC149629		0.18	0.012	0.7	0.89	9	<10	840	<0.5	<2	0.97	<0.5	15	57	88	2.29
CC149630		0.20	0.016	0.4	1.30	15	<10	530	0.6	<2	1.39	1.2	30	80	85	4.84
CC149631		0.38	0.011	0.3	0.70	7	<10	300	<0.5	2	1.01	<0.5	10	51	78	2.55
CC149632		0.26	0.003	<0.2	1.70	4	<10	440	<0.5	<2	0.73	<0.5	42	440	39	3.17
CC149633		0.18	0.008	0.2	1.43	27	<10	260	<0.5	<2	1.06	<0.5	23	182	43	2.24
CC149634		0.34	0.009	<0.2	3.80	83	<10	290	<0.5	<2	0.92	<0.5	89	944	130	5.60
CC149635		0.16	0.002	0.2	1.48	7	<10	400	0.6	<2	0.29	<0.5	14	30	25	2.98
CC149636		0.32	0.002	0.3	0.76	7	<10	270	<0.5	<2	0.03	<0.5	5	18	12	1.58
CC149637		0.28	0.001	<0.2	0.87	8	<10	220	<0.5	<2	0.09	<0.5	6	84	9	1.91
CC149638		0.24	0.003	0.4	1.02	6	<10	790	<0.5	<2	0.16	<0.5	16	92	19	2.01
CC149639		0.26	0.003	<0.2	1.49	11	<10	430	<0.5	<2	0.35	0.7	35	383	22	3.28
CC149640		0.26	0.005	0.3	1.58	9	<10	570	<0.5	<2	0.95	0.7	44	493	34	3.63
CC149641		0.16	0.004	0.5	1.70	9	<10	990	0.5	<2	1.24	0.9	42	437	71	3.67
CC149642		0.38	0.002	<0.2	1.81	7	<10	530	0.5	3	1.13	1.0	17	125	72	3.16
CC149643		0.34	0.004	0.3	1.34	7	<10	500	0.5	<2	0.68	<0.5	20	171	78	2.82
CC149644		0.50	0.004	0.2	1.86	9	<10	410	<0.5	<2	0.80	<0.5	36	479	38	4.08
CC149645		0.28	0.004	0.3	1.64	15	<10	320	0.5	<2	0.70	0.6	33	347	167	4.10
CC149646		0.34	0.004	<0.2	1.41	12	<10	450	0.6	2	4.97	<0.5	24	113	73	6.40
CC149647		0.24	0.002	<0.2	1.30	9	<10	840	0.5	<2	0.40	<0.5	15	86	22	2.63
CC149648		0.16	0.001	<0.2	1.51	5	<10	330	<0.5	<2	0.10	<0.5	9	31	23	2.76
CC149649		0.22	0.003	<0.2	1.19	7	<10	420	<0.5	<2	0.54	<0.5	11	28	43	2.72
CC149650		0.24	0.001	0.7	1.08	10	<10	610	<0.5	<2	0.22	<0.5	7	22	27	2.11
CC149651		0.28	0.005	0.2	1.82	11	<10	720	0.6	3	0.56	<0.5	15	106	42	3.34
CC149652		0.54	0.007	0.3	1.48	13	<10	480	0.5	<2	0.63	0.5	18	84	76	3.05
CC149653		0.24	0.006	0.5	1.56	14	<10	550	0.6	2	0.94	<0.5	14	66	55	3.16
CC149654		0.30	0.006	<0.2	1.29	6	<10	630	<0.5	<2	0.59	<0.5	13	53	48	2.67
CC149655		0.34	0.009	<0.2	1.55	13	<10	730	0.5	<2	0.34	<0.5	21	86	55	4.19
CC149656		0.30	0.007	0.2	1.54	6	<10	1310	0.6	<2	0.77	<0.5	10	37	81	2.27
CC149657		0.30	0.007	<0.2	1.33	4	<10	670	<0.5	3	0.36	<0.5	13	82	55	2.21
CC149658		0.34	0.002	0.2	1.01	9	<10	310	<0.5	<2	0.05	<0.5	9	23	33	2.71
CC149659		0.28	0.007	<0.2	1.45	11	<10	560	<0.5	<2	0.10	<0.5	15	75	38	3.58
CC149660		0.34	0.003	0.3	1.15	10	<10	640	<0.5	2	0.65	<0.5	26	268	16	2.48



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CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149621		<10	<1	0.05	20	0.11	130	2	0.01	15	220	8	0.01	<2	1	36
CC149622		10	<1	0.12	10	1.03	491	3	0.02	25	210	9	0.01	2	6	55
CC149623		10	<1	0.12	20	0.64	501	3	0.01	29	170	16	0.01	2	2	235
CC149624		<10	<1	0.07	20	0.52	255	2	0.01	23	140	8	<0.01	<2	2	13
CC149625		10	<1	0.11	10	2.29	1135	2	0.02	17	210	5	0.01	<2	4	1830
CC149626		<10	<1	0.13	20	1.08	659	2	0.02	21	550	14	0.03	<2	4	69
CC149627		10	<1	0.11	40	0.83	540	5	0.01	30	270	30	0.03	3	3	45
CC149628		10	<1	0.05	20	1.27	631	2	0.01	16	320	11	0.02	<2	4	31
CC149629		<10	1	0.10	10	0.46	415	3	0.02	79	620	13	0.06	2	3	123
CC149630		10	1	0.14	10	0.53	1935	2	0.03	321	890	15	0.11	5	5	136
CC149631		<10	<1	0.09	10	0.37	312	3	0.01	68	460	12	0.06	4	3	125
CC149632		<10	<1	0.07	10	7.03	594	2	0.02	545	290	5	<0.01	<2	4	49
CC149633		<10	<1	0.09	10	2.18	321	2	0.03	461	270	7	0.05	8	7	51
CC149634		10	<1	0.02	<10	12.50	982	<1	0.02	1295	160	<2	0.03	15	19	28
CC149635		<10	<1	0.07	10	0.29	467	1	0.02	26	270	9	0.02	2	5	19
CC149636		<10	<1	0.06	20	0.18	168	1	0.01	17	190	9	0.01	2	1	7
CC149637		<10	<1	0.05	20	0.56	263	1	0.01	30	170	9	0.01	3	1	7
CC149638		<10	<1	0.07	20	0.88	355	1	0.01	109	220	14	0.01	2	2	13
CC149639		<10	<1	0.07	10	4.76	633	1	0.02	354	450	12	0.01	<2	4	20
CC149640		<10	1	0.07	10	6.25	802	1	0.02	625	490	8	0.03	<2	6	39
CC149641		<10	<1	0.07	10	4.70	993	<1	0.02	732	580	8	0.06	3	7	50
CC149642		10	<1	0.07	10	1.86	665	<1	0.02	120	630	14	0.08	2	8	66
CC149643		<10	<1	0.11	10	2.10	719	2	0.02	176	700	14	0.03	3	7	44
CC149644		<10	<1	0.07	10	6.01	720	<1	0.02	479	360	15	0.03	2	8	38
CC149645		<10	<1	0.10	10	5.01	843	2	0.02	395	830	15	0.03	4	13	51
CC149646		10	1	0.09	10	3.16	1315	1	0.02	161	650	8	0.05	3	20	286
CC149647		<10	1	0.09	20	0.89	572	1	0.02	88	270	13	0.02	3	4	28
CC149648		<10	<1	0.07	20	0.32	248	1	0.01	26	180	11	0.01	4	3	9
CC149649		<10	<1	0.08	10	0.39	572	1	0.02	29	310	7	0.03	<2	5	36
CC149650		<10	<1	0.06	20	0.24	255	2	0.02	24	180	11	0.01	2	2	19
CC149651		10	1	0.13	10	1.19	1100	2	0.02	43	420	10	0.02	<2	8	53
CC149652		<10	<1	0.15	20	1.01	709	2	0.02	131	540	14	0.02	2	7	44
CC149653		<10	<1	0.14	10	0.97	526	<1	0.02	60	690	17	0.07	3	7	68
CC149654		<10	1	0.09	20	0.71	462	<1	0.01	50	520	8	0.02	2	5	29
CC149655		10	1	0.09	10	0.78	716	<1	0.01	77	240	7	0.01	4	11	18
CC149656		<10	1	0.11	10	0.46	548	1	0.03	44	490	10	0.03	3	4	34
CC149657		<10	<1	0.09	20	0.83	522	<1	0.02	51	270	7	0.02	2	5	23
CC149658		<10	<1	0.06	20	0.35	301	1	0.01	28	300	9	0.02	3	2	8
CC149659		10	<1	0.08	10	0.81	941	1	0.01	37	410	13	0.01	2	3	8
CC149660		<10	<1	0.06	10	3.39	376	<1	0.02	262	360	8	0.02	6	3	30



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Project: Wolverine - LOOP

CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149621		<20	0.02	<10	<10	41	<10	31
CC149622		<20	0.15	<10	<10	98	<10	118
CC149623		<20	0.01	<10	<10	37	<10	69
CC149624		<20	0.01	<10	<10	35	<10	43
CC149625		<20	0.08	<10	<10	45	<10	50
CC149626		<20	0.01	<10	<10	30	<10	74
CC149627		<20	0.02	<10	<10	48	<10	81
CC149628		<20	<0.01	<10	<10	40	<10	80
CC149629		<20	0.01	<10	<10	28	<10	71
CC149630		<20	0.01	<10	<10	34	<10	136
CC149631		<20	<0.01	<10	<10	23	<10	66
CC149632		<20	0.02	<10	<10	29	<10	51
CC149633		<20	0.02	<10	<10	49	<10	65
CC149634		<20	0.01	<10	<10	87	<10	34
CC149635		<20	0.01	<10	<10	70	<10	47
CC149636		<20	0.01	<10	<10	29	<10	37
CC149637		<20	0.01	<10	<10	50	<10	39
CC149638		<20	0.01	<10	<10	30	<10	63
CC149639		<20	0.01	<10	<10	47	<10	103
CC149640		<20	0.02	<10	<10	51	<10	91
CC149641		<20	0.03	<10	<10	65	<10	76
CC149642		<20	0.08	<10	<10	88	<10	104
CC149643		<20	0.01	<10	<10	50	<10	92
CC149644		<20	0.03	<10	<10	69	<10	81
CC149645		<20	0.02	<10	<10	75	<10	131
CC149646		<20	0.01	<10	<10	117	<10	77
CC149647		<20	0.01	<10	<10	41	<10	70
CC149648		<20	0.01	<10	<10	66	<10	58
CC149649		<20	0.01	<10	<10	43	<10	55
CC149650		<20	0.01	<10	<10	44	<10	52
CC149651		<20	0.09	<10	<10	86	<10	54
CC149652		<20	0.02	<10	<10	49	<10	94
CC149653		<20	0.02	<10	<10	50	<10	91
CC149654		<20	0.02	<10	<10	43	<10	69
CC149655		<20	0.02	<10	<10	66	<10	74
CC149656		<20	0.01	<10	<10	41	<10	66
CC149657		<20	0.03	<10	<10	42	<10	54
CC149658		<20	0.01	<10	<10	30	<10	80
CC149659		<20	0.06	<10	<10	80	<10	76
CC149660		<20	0.01	<10	<10	39	<10	62



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CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149661		0.28	0.007	0.6	1.35	9	<10	650	0.5	<2	0.99	0.8	26	205	47	2.43
CC149662		0.34	0.003	0.2	0.84	8	<10	430	<0.5	<2	0.30	<0.5	11	25	27	1.99
CC149663		0.42	0.002	<0.2	2.66	6	<10	280	<0.5	2	0.89	<0.5	18	21	67	4.27
CC149664		0.34	0.008	0.4	0.92	14	<10	480	0.5	<2	0.54	0.5	16	47	128	2.49
CC149665		0.58	0.007	<0.2	1.23	9	<10	830	<0.5	<2	0.38	<0.5	26	190	53	2.56
CC149666		0.32	0.006	0.3	1.13	5	<10	530	<0.5	<2	0.61	<0.5	22	201	50	2.47
CC149667		0.36	0.008	0.2	0.96	17	<10	490	<0.5	<2	0.13	<0.5	21	166	57	3.74
CC149668		0.34	0.005	<0.2	2.41	12	<10	100	1.0	2	0.33	<0.5	19	34	44	4.91
CC149669		0.66	0.015	0.3	1.73	7	<10	370	<0.5	2	0.74	<0.5	18	24	80	3.30
CC149670		0.30	0.004	<0.2	1.26	5	<10	300	<0.5	<2	0.08	<0.5	9	17	16	2.26
CC149671		0.50	0.011	<0.2	1.74	8	<10	150	<0.5	<2	0.03	<0.5	13	27	18	3.22
CC149672		0.48	0.016	<0.2	2.90	8	<10	330	0.8	2	0.19	<0.5	16	41	39	4.43
CC149673		0.36	0.005	0.3	1.63	10	<10	400	<0.5	<2	0.76	<0.5	18	44	25	3.24
CC149674		0.36	0.003	0.2	1.24	9	<10	590	0.5	<2	0.13	<0.5	16	48	36	3.50
CC149675		0.30	0.003	<0.2	1.43	9	<10	380	<0.5	<2	0.11	<0.5	13	71	26	2.68
CC149676		0.40	0.004	<0.2	1.50	11	<10	420	0.5	<2	0.29	<0.5	17	67	29	2.81
CC149677		0.32	0.041	0.3	1.98	11	<10	200	0.6	<2	0.15	<0.5	12	28	19	3.07
CC149678		0.38	0.004	<0.2	2.34	9	<10	260	0.6	<2	0.15	<0.5	15	49	28	4.14
CC149679		0.52	0.012	<0.2	2.34	11	<10	100	1.0	<2	0.32	<0.5	19	35	43	4.79
CC149680		0.26	0.162	0.7	2.02	20	<10	280	<0.5	<2	0.55	<0.5	12	18	57	3.79
CC149681		0.54	0.024	0.5	1.42	12	<10	830	<0.5	<2	0.40	<0.5	16	20	82	3.25
CC149682		0.48	0.003	0.2	1.07	10	<10	920	<0.5	<2	0.31	<0.5	21	129	35	2.13
CC149683		0.62	0.004	0.2	1.31	9	<10	820	<0.5	2	0.18	<0.5	24	191	43	2.67
CC149684		0.50	0.005	0.2	1.68	7	<10	830	<0.5	<2	0.22	<0.5	35	329	41	3.19
CC149685		0.28	0.001	0.3	1.53	5	<10	1130	<0.5	<2	0.31	0.5	25	227	32	2.71
CC149686		0.30	0.002	<0.2	1.96	6	<10	360	<0.5	<2	0.36	<0.5	41	536	30	3.69
CC149687		0.50	0.007	<0.2	1.51	13	<10	550	0.5	<2	0.44	<0.5	27	237	112	3.19
CC149688		0.30	0.002	<0.2	0.78	17	<10	410	<0.5	<2	0.07	<0.5	13	36	25	2.26
CC149689		0.38	0.002	<0.2	1.69	11	<10	390	<0.5	<2	0.15	<0.5	13	41	33	3.17
CC149690		0.52	0.006	0.2	1.06	12	<10	450	0.7	<2	0.41	<0.5	13	25	56	3.24
CC149691		0.42	0.004	<0.2	1.74	9	<10	400	0.5	<2	0.31	<0.5	34	309	27	3.43
CC149692		0.38	0.001	<0.2	1.99	8	<10	290	<0.5	<2	0.38	<0.5	59	661	25	4.38
CC149693		0.32	<0.001	<0.2	3.38	4	<10	550	<0.5	<2	0.79	<0.5	37	186	37	6.46
CC149694		0.34	0.005	<0.2	0.43	6	<10	240	<0.5	<2	0.24	<0.5	12	53	43	1.66
CC149695		0.28	0.001	<0.2	1.37	9	<10	360	<0.5	<2	0.42	<0.5	18	195	14	3.05
CC149696		0.36	0.005	0.3	1.86	10	<10	290	<0.5	<2	0.83	<0.5	41	421	75	4.23
CC149697		0.30	0.001	<0.2	1.49	8	<10	250	<0.5	<2	0.20	<0.5	26	323	28	3.08
CC149698		0.42	0.004	0.3	0.90	9	<10	440	<0.5	<2	0.50	<0.5	14	28	64	2.82
CC149699		0.52	0.002	<0.2	2.12	11	<10	500	0.5	<2	0.21	<0.5	13	46	52	4.05



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Project: Wolverine - LOOP

CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149661		<10	<1	0.08	10	2.43	508	1	0.02	405	730	9	0.04	5	5	51
CC149662		<10	<1	0.08	20	0.32	414	2	<0.01	47	750	16	<0.01	2	2	25
CC149663		10	<1	0.07	10	0.66	434	2	0.01	61	310	9	<0.01	2	3	54
CC149664		<10	<1	0.09	10	0.52	695	2	<0.01	420	320	15	0.01	2	5	40
CC149665		<10	<1	0.08	10	2.14	662	1	<0.01	270	390	11	0.01	2	5	28
CC149666		<10	<1	0.08	10	2.03	738	1	<0.01	252	470	10	0.01	3	4	34
CC149667		<10	<1	0.07	20	1.17	678	4	<0.01	156	440	15	<0.01	2	3	18
CC149668		10	<1	0.12	30	0.95	580	6	<0.01	26	300	25	<0.01	<2	3	45
CC149669		<10	<1	0.09	20	1.13	1090	4	<0.01	31	620	18	0.06	<2	4	56
CC149670		<10	<1	0.05	20	0.29	279	1	<0.01	14	130	8	<0.01	<2	2	12
CC149671		10	<1	0.06	20	0.59	437	1	<0.01	18	140	20	<0.01	<2	2	10
CC149672		10	<1	0.09	30	1.37	577	4	<0.01	19	140	25	<0.01	<2	5	21
CC149673		<10	<1	0.08	10	0.75	496	3	<0.01	38	380	12	0.01	<2	4	82
CC149674		<10	<1	0.09	20	0.28	1535	2	<0.01	30	200	15	<0.01	2	5	20
CC149675		<10	<1	0.06	20	0.71	419	1	<0.01	50	120	8	<0.01	2	2	13
CC149676		<10	<1	0.08	20	0.73	679	3	<0.01	57	190	11	<0.01	<2	5	38
CC149677		10	<1	0.11	20	0.63	356	5	<0.01	20	160	21	<0.01	<2	2	93
CC149678		10	<1	0.10	20	1.04	575	3	<0.01	25	180	13	<0.01	2	5	160
CC149679		10	<1	0.12	30	0.93	565	6	<0.01	27	290	25	<0.01	<2	3	44
CC149680		<10	<1	0.08	20	1.30	488	8	<0.01	23	910	30	0.05	<2	3	46
CC149681		<10	<1	0.11	10	0.64	792	3	<0.01	48	670	22	0.01	<2	5	40
CC149682		<10	<1	0.07	10	1.27	612	1	<0.01	128	200	10	<0.01	<2	3	18
CC149683		<10	<1	0.09	10	1.85	647	2	<0.01	209	270	12	<0.01	2	4	16
CC149684		<10	<1	0.08	10	3.58	752	1	<0.01	336	240	10	<0.01	<2	5	16
CC149685		<10	<1	0.05	10	2.07	516	1	<0.01	179	200	9	<0.01	<2	3	18
CC149686		<10	<1	0.03	10	6.91	564	<1	<0.01	397	130	5	<0.01	<2	4	12
CC149687		<10	<1	0.09	10	3.30	581	1	<0.01	277	240	11	<0.01	2	10	25
CC149688		<10	<1	0.04	10	0.12	551	2	<0.01	31	90	6	<0.01	<2	2	12
CC149689		<10	<1	0.04	10	0.48	296	2	<0.01	31	140	10	<0.01	2	3	14
CC149690		<10	<1	0.10	20	0.38	609	3	<0.01	47	270	16	<0.01	2	6	31
CC149691		<10	<1	0.07	10	3.10	601	2	<0.01	333	190	13	<0.01	3	7	18
CC149692		<10	<1	0.03	10	6.50	905	1	<0.01	558	130	7	<0.01	<2	8	21
CC149693		10	<1	0.05	<10	2.45	1170	<1	<0.01	138	410	3	<0.01	<2	17	49
CC149694		<10	<1	0.06	20	0.22	565	1	<0.01	68	180	5	<0.01	<2	3	18
CC149695		<10	<1	0.05	10	1.93	510	1	<0.01	98	220	13	<0.01	<2	3	26
CC149696		<10	<1	0.07	10	6.24	763	1	<0.01	634	500	8	<0.01	3	12	39
CC149697		<10	<1	0.05	10	2.30	444	1	<0.01	181	130	9	<0.01	2	3	12
CC149698		<10	1	0.07	10	0.44	771	2	<0.01	43	350	11	0.02	2	4	33
CC149699		10	1	0.06	10	0.61	542	1	<0.01	28	190	7	<0.01	2	6	14



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Finalized Date: 26- SEP- 2011
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Project: Wolverine - LOOP

CERTIFICATE OF ANALYSIS WH11149814

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149661		<20	0.01	<10	<10	40	<10	79
CC149662		<20	0.01	<10	<10	26	<10	83
CC149663		<20	0.12	<10	<10	132	<10	96
CC149664		<20	0.01	<10	<10	30	<10	76
CC149665		<20	0.01	<10	<10	28	<10	77
CC149666		<20	0.01	<10	<10	31	<10	64
CC149667		<20	0.01	<10	<10	35	<10	117
CC149668		<20	0.02	<10	<10	39	<10	86
CC149669		<20	<0.01	<10	<10	33	<10	86
CC149670		<20	0.01	<10	<10	41	<10	42
CC149671		<20	0.01	<10	<10	44	<10	54
CC149672		<20	0.01	<10	<10	56	<10	61
CC149673		<20	0.02	<10	<10	43	<10	57
CC149674		<20	0.01	<10	<10	57	<10	66
CC149675		<20	0.01	<10	<10	36	<10	60
CC149676		<20	0.01	<10	<10	37	<10	61
CC149677		<20	0.02	<10	<10	35	<10	64
CC149678		<20	0.04	<10	<10	80	<10	69
CC149679		<20	0.02	<10	<10	39	<10	87
CC149680		<20	<0.01	<10	<10	23	<10	114
CC149681		<20	<0.01	<10	<10	39	<10	99
CC149682		<20	0.01	<10	<10	26	<10	60
CC149683		<20	0.01	<10	<10	34	<10	71
CC149684		<20	0.01	<10	<10	37	<10	65
CC149685		<20	0.02	<10	<10	41	<10	55
CC149686		<20	0.02	<10	<10	48	<10	38
CC149687		<20	0.01	<10	<10	48	<10	66
CC149688		<20	<0.01	<10	<10	36	<10	42
CC149689		<20	0.01	<10	<10	71	<10	62
CC149690		<20	0.01	<10	<10	44	<10	92
CC149691		<20	0.01	<10	<10	52	<10	70
CC149692		<20	0.03	<10	<10	57	<10	69
CC149693		<20	0.01	<10	<10	135	<10	75
CC149694		<20	<0.01	<10	<10	13	<10	35
CC149695		<20	0.01	<10	<10	52	<10	65
CC149696		<20	0.03	<10	<10	69	<10	93
CC149697		<20	0.01	<10	<10	60	<10	70
CC149698		<20	0.01	<10	<10	37	<10	76
CC149699		<20	0.01	<10	<10	81	<10	67



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CERTIFICATE WH11149815

Project: Wolverine - LOOP

P.O. No.:

This report is for 120 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

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

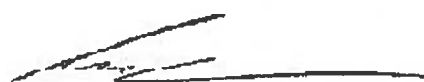
ANALYTICAL PROCEDURES

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

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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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Project: Wolverine - LOOP

CERTIFICATE OF ANALYSIS WH11149815

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149701		0.26	0.004	<0.2	0.74	7	<10	300	<0.5	<2	0.17	<0.5	5	17	12	1.57
CC149702		0.16	0.003	0.2	1.06	8	<10	210	<0.5	<2	0.08	<0.5	7	28	6	2.33
CC149703		0.14	0.002	0.2	0.91	<2	<10	540	<0.5	<2	0.24	1.3	7	10	16	1.83
CC149704		0.18	0.005	0.2	0.57	4	<10	440	<0.5	<2	0.16	0.5	6	9	14	1.28
CC149705		0.18	0.003	<0.2	0.93	5	<10	670	<0.5	<2	0.06	<0.5	5	14	16	1.66
CC149706		0.14	0.005	<0.2	0.51	4	<10	350	<0.5	<2	0.02	<0.5	3	6	8	1.01
CC149707		0.30	0.004	<0.2	1.10	5	<10	420	<0.5	<2	0.02	<0.5	5	15	18	1.97
CC149708		0.30	0.013	<0.2	1.27	6	<10	650	<0.5	<2	0.02	<0.5	6	17	23	2.21
CC149709		0.32	0.005	<0.2	0.52	7	<10	130	<0.5	<2	0.01	<0.5	5	18	17	1.58
CC149710		0.12	0.002	<0.2	0.50	5	<10	210	<0.5	<2	0.06	<0.5	4	22	6	1.13
CC149711		0.26	0.003	<0.2	0.67	5	<10	190	<0.5	<2	0.02	<0.5	5	36	12	1.59
CC149712		0.18	0.001	<0.2	0.40	12	<10	140	<0.5	<2	0.04	<0.5	5	16	32	1.85
CC149713		0.26	0.001	<0.2	2.74	<2	20	80	<0.5	<2	0.78	<0.5	76	653	33	3.86
CC149714		0.20	NSS	0.2	0.57	9	<10	380	<0.5	<2	0.87	0.5	9	18	34	2.31
CC149715		0.12	0.022	0.8	0.53	13	<10	1170	<0.5	<2	0.68	2.9	7	9	79	1.44
CC149716		0.34	0.004	<0.2	1.19	12	<10	490	0.5	<2	0.05	<0.5	19	165	61	3.14
CC149717		0.22	0.014	2.0	2.38	12	<10	1720	0.9	2	0.21	<0.5	11	80	146	3.47
CC149718		0.24	0.002	0.3	0.62	6	<10	270	<0.5	2	0.05	<0.5	3	20	25	0.97
CC149719		0.26	0.006	0.2	1.22	9	<10	220	<0.5	2	0.03	<0.5	6	27	47	3.22
CC149720		0.14	0.018	0.2	0.91	12	<10	420	<0.5	3	0.07	<0.5	9	29	51	2.36
CC149721		0.28	0.006	<0.2	1.09	8	<10	340	<0.5	2	0.01	<0.5	7	25	30	2.17
CC149722		0.24	0.004	<0.2	0.62	2	<10	230	<0.5	2	0.03	<0.5	4	13	19	1.20
CC149723		0.34	0.006	<0.2	0.82	2	<10	290	<0.5	<2	0.03	<0.5	5	13	14	1.68
CC149724		0.12	0.003	<0.2	1.17	<2	<10	390	<0.5	2	0.26	<0.5	6	28	14	1.72
CC149725		0.12	0.013	<0.2	1.74	4	<10	1640	0.5	2	0.36	<0.5	13	34	30	2.27
CC149726		0.20	0.003	<0.2	1.50	7	<10	1220	<0.5	3	0.29	<0.5	10	29	26	2.12
CC149727		0.16	0.006	<0.2	1.49	6	<10	810	<0.5	3	0.37	<0.5	18	68	60	2.87
CC149728		0.18	0.005	<0.2	1.63	6	<10	1070	<0.5	2	0.77	<0.5	17	74	45	2.84
CC149729		0.22	0.004	<0.2	1.78	5	<10	1200	<0.5	3	0.20	<0.5	11	48	56	2.29
CC149730		0.20	0.002	<0.2	0.73	6	<10	180	<0.5	2	0.07	<0.5	5	17	14	1.67
CC149731		0.22	0.002	<0.2	0.59	9	<10	160	<0.5	3	0.05	<0.5	5	12	18	1.54
CC149732		0.26	0.001	<0.2	0.96	8	<10	330	<0.5	2	0.12	<0.5	10	50	19	2.33
CC149733		0.22	0.011	<0.2	1.32	13	<10	520	<0.5	2	0.09	<0.5	11	46	17	2.48
CC149734		0.22	0.007	<0.2	1.51	16	<10	640	0.6	<2	0.55	<0.5	18	55	48	3.38
CC149735		0.32	0.005	0.3	1.41	11	<10	610	0.6	2	0.56	<0.5	14	85	40	2.75
CC149736		0.20	0.002	<0.2	1.12	10	<10	470	<0.5	2	0.20	<0.5	8	45	18	2.31
CC149737		0.20	0.038	0.2	1.07	9	<10	890	<0.5	3	0.97	<0.5	8	28	41	2.19
CC149738		0.26	0.005	0.2	1.68	7	<10	2050	0.9	2	0.48	<0.5	11	85	139	2.85
CC149739		0.24	0.005	<0.2	1.07	4	<10	410	<0.5	2	0.46	<0.5	12	42	27	2.28
CC149740		0.14	0.015	<0.2	1.16	4	<10	810	<0.5	3	0.54	<0.5	11	31	22	2.02



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Project: Wolverine - LOOP

CERTIFICATE OF ANALYSIS WH11149815

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149701		<10	<1	0.06	20	0.12	349	1	<0.01	16	200	6	<0.01	<2	1	12
CC149702		<10	<1	0.06	10	0.13	354	<1	<0.01	20	330	7	<0.01	<2	1	8
CC149703		<10	<1	0.07	10	0.07	1925	<1	<0.01	12	650	14	0.02	<2	1	22
CC149704		<10	<1	0.07	10	0.08	826	<1	<0.01	13	450	10	0.01	<2	1	12
CC149705		<10	<1	0.06	20	0.20	441	1	<0.01	14	240	8	0.01	<2	1	7
CC149706		<10	<1	0.03	20	0.08	151	1	<0.01	7	110	4	<0.01	<2	1	6
CC149707		<10	<1	0.05	20	0.19	262	1	<0.01	16	150	7	<0.01	<2	1	5
CC149708		<10	<1	0.06	20	0.19	271	1	<0.01	18	160	6	<0.01	<2	1	4
CC149709		<10	<1	0.04	20	0.12	184	1	<0.01	19	210	5	<0.01	<2	1	4
CC149710		<10	<1	0.05	10	0.19	196	1	<0.01	16	190	3	<0.01	<2	1	6
CC149711		<10	<1	0.03	20	0.15	239	1	<0.01	16	120	6	<0.01	<2	1	4
CC149712		<10	<1	0.04	10	0.03	341	1	<0.01	25	250	6	<0.01	3	1	6
CC149713		10	1	0.01	10	14.15	892	<1	0.01	890	260	<2	0.01	<2	11	30
CC149714		<10	<1	0.06	10	0.28	719	2	0.01	38	590	12	0.07	3	3	41
CC149715		<10	<1	0.05	10	0.21	355	4	0.01	61	660	22	0.06	3	3	60
CC149716		<10	1	0.05	20	0.29	290	3	<0.01	326	100	25	0.01	<2	3	5
CC149717		10	1	0.20	30	0.35	800	3	0.01	73	650	31	0.01	2	5	25
CC149718		<10	<1	0.06	10	0.16	122	1	0.01	26	180	11	<0.01	<2	1	6
CC149719		<10	<1	0.06	10	0.39	395	2	<0.01	36	460	18	0.03	<2	2	17
CC149720		10	1	0.06	10	0.17	647	<1	0.01	31	450	9	0.01	4	1	14
CC149721		<10	1	0.04	20	0.22	199	<1	<0.01	29	170	7	<0.01	2	2	5
CC149722		<10	<1	0.05	10	0.18	253	<1	0.01	14	190	5	<0.01	<2	1	8
CC149723		<10	<1	0.04	20	0.17	260	<1	<0.01	14	160	7	<0.01	<2	1	7
CC149724		10	<1	0.03	10	0.18	363	<1	0.02	12	370	3	0.01	<2	2	10
CC149725		10	1	0.10	10	0.30	1260	<1	0.02	29	600	12	0.01	<2	3	17
CC149726		10	1	0.10	10	0.30	695	<1	0.02	25	320	9	<0.01	<2	2	13
CC149727		10	1	0.13	10	0.67	593	<1	0.02	53	410	7	<0.01	<2	10	15
CC149728		10	1	0.07	10	0.85	1485	<1	0.02	42	670	7	0.02	<2	4	35
CC149729		10	<1	0.05	20	0.61	731	<1	0.01	31	200	7	<0.01	2	3	13
CC149730		<10	<1	0.05	10	0.18	168	<1	0.01	17	150	5	<0.01	<2	1	8
CC149731		<10	<1	0.03	20	0.05	129	<1	0.01	15	180	6	<0.01	<2	2	8
CC149732		<10	<1	0.07	20	0.43	521	<1	<0.01	37	230	7	<0.01	2	2	10
CC149733		10	1	0.07	20	0.48	456	<1	0.01	52	230	9	<0.01	<2	3	10
CC149734		10	<1	0.08	10	0.70	811	1	0.01	63	230	12	<0.01	2	7	32
CC149735		10	<1	0.10	20	0.92	559	1	0.01	96	490	14	<0.01	2	5	44
CC149736		<10	<1	0.08	20	0.45	277	1	0.01	35	170	9	<0.01	<2	2	16
CC149737		<10	1	0.09	10	0.36	423	<1	0.02	35	370	9	0.02	2	3	48
CC149738		10	<1	0.09	30	0.46	384	<1	0.02	104	520	11	<0.01	3	8	35
CC149739		<10	1	0.06	10	0.54	529	<1	0.02	35	370	5	<0.01	<2	6	21
CC149740		<10	<1	0.10	10	0.32	897	<1	0.02	27	330	8	<0.01	2	2	20



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Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149701		<20	0.01	<10	<10	38	<10	37
CC149702		<20	0.01	<10	<10	50	<10	60
CC149703		<20	0.02	<10	<10	26	<10	79
CC149704		<20	0.01	<10	<10	21	<10	51
CC149705		<20	0.01	<10	<10	30	<10	36
CC149706		<20	0.01	<10	<10	18	<10	18
CC149707		<20	0.01	<10	<10	29	<10	42
CC149708		<20	<0.01	<10	<10	28	<10	41
CC149709		<20	0.01	<10	<10	26	<10	36
CC149710		<20	0.01	<10	<10	25	<10	22
CC149711		<20	0.01	<10	<10	18	<10	28
CC149712		<20	0.01	<10	<10	29	<10	53
CC149713		<20	0.06	<10	<10	62	<10	29
CC149714		<20	0.01	<10	<10	17	<10	70
CC149715		<20	0.01	<10	<10	19	<10	79
CC149716		<20	0.01	<10	<10	29	<10	81
CC149717		<20	<0.01	<10	<10	57	<10	110
CC149718		<20	0.01	<10	<10	20	<10	32
CC149719		<20	0.01	<10	<10	38	<10	95
CC149720		<20	0.02	<10	<10	46	<10	89
CC149721		<20	<0.01	<10	<10	32	<10	50
CC149722		<20	0.01	<10	<10	20	<10	37
CC149723		<20	0.01	<10	<10	25	<10	29
CC149724		<20	0.09	<10	<10	59	<10	73
CC149725		<20	0.02	<10	<10	54	<10	77
CC149726		<20	0.01	<10	<10	45	<10	56
CC149727		<20	0.01	<10	<10	57	<10	48
CC149728		<20	0.02	<10	<10	59	<10	61
CC149729		<20	0.02	<10	<10	59	<10	49
CC149730		<20	0.01	<10	<10	32	<10	34
CC149731		<20	0.01	<10	<10	41	<10	41
CC149732		<20	0.01	<10	<10	44	<10	54
CC149733		<20	0.01	<10	<10	51	<10	68
CC149734		<20	0.01	<10	<10	58	<10	68
CC149735		<20	0.02	<10	<10	49	<10	105
CC149736		<20	0.02	<10	<10	47	<10	59
CC149737		<20	0.01	<10	<10	37	<10	56
CC149738		<20	0.01	<10	<10	58	<10	51
CC149739		<20	0.02	<10	<10	40	<10	48
CC149740		<20	0.02	<10	<10	42	<10	47



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149741		0.20	0.002	<0.2	0.70	5	<10	320	<0.5	2	0.07	<0.5	3	12	14	0.91
CC149742		0.16	0.017	0.3	1.19	6	<10	1360	<0.5	3	1.08	<0.5	6	20	49	1.47
CC149743		0.22	0.006	0.2	1.58	5	<10	1640	0.5	2	0.74	<0.5	11	28	52	2.48
CC149744		0.16	0.002	0.2	0.36	<2	<10	90	<0.5	2	0.05	<0.5	1	2	7	0.37
CC149745		0.14	0.003	0.2	0.68	3	<10	340	<0.5	2	0.44	<0.5	5	29	26	1.56
CC149746		0.42	0.063	0.2	1.00	8	<10	230	<0.5	3	0.02	<0.5	9	24	34	2.70
CC149747		0.18	0.004	<0.2	0.73	6	<10	250	<0.5	2	0.06	<0.5	5	25	33	1.53
CC149748		0.30	0.007	0.4	1.19	4	<10	980	<0.5	2	0.75	<0.5	13	64	65	1.99
CC149749		0.18	0.008	0.5	1.18	5	<10	990	0.5	<2	1.03	<0.5	11	73	81	2.00
CC149750		0.16	0.003	0.2	1.11	8	<10	970	<0.5	<2	0.19	<0.5	15	146	16	2.30
CC149796		0.26	0.005	0.3	1.46	29	<10	400	0.5	<2	0.76	<0.5	20	81	36	3.94
CC149797		0.12	0.005	<0.2	1.16	10	<10	480	<0.5	<2	0.53	<0.5	9	29	27	2.30
CC149798		0.26	0.003	0.5	1.79	14	<10	1190	0.6	<2	0.80	<0.5	23	176	64	2.97
CC149799		0.20	0.006	0.5	1.24	3	<10	840	0.5	<2	1.37	<0.5	9	51	36	1.67
CC149800		0.22	0.013	0.2	0.97	15	<10	490	<0.5	<2	0.28	<0.5	12	54	29	2.34
CC149896		0.22	0.003	0.2	1.51	9	<10	650	0.6	<2	0.42	<0.5	12	36	40	2.89
CC149897		0.22	0.002	0.4	2.18	10	<10	1080	0.9	<2	0.20	<0.5	14	56	53	3.06
CC149898		0.22	0.002	0.4	1.15	3	<10	360	<0.5	<2	0.07	<0.5	15	56	21	1.87
CC149899		0.30	0.002	<0.2	1.09	7	<10	240	<0.5	<2	0.04	<0.5	6	35	12	2.12
CC149900		0.18	0.001	<0.2	1.15	2	<10	540	<0.5	<2	0.30	<0.5	6	21	15	1.60
CC149901		0.16	0.005	0.2	0.94	12	<10	390	0.5	<2	0.24	<0.5	14	65	45	3.34
CC149902		0.16	0.008	0.2	1.25	9	<10	340	<0.5	<2	0.30	<0.5	12	39	33	2.78
CC149903		0.24	0.002	0.4	0.98	5	<10	500	<0.5	<2	0.18	<0.5	16	22	37	2.19
CC149904		0.16	0.003	0.4	1.14	6	<10	990	0.5	<2	0.32	<0.5	9	17	57	2.00
CC149905		0.40	0.004	0.4	1.78	4	<10	1530	0.6	<2	0.12	<0.5	10	24	81	2.40
CC149906		0.22	0.003	<0.2	0.93	5	<10	440	<0.5	<2	0.04	<0.5	5	13	15	1.71
CC149907		0.24	0.002	<0.2	0.59	3	<10	290	<0.5	<2	0.02	<0.5	3	8	7	1.18
CC149908		0.30	0.002	<0.2	1.17	6	<10	610	<0.5	<2	0.05	<0.5	5	14	16	2.03
CC149909		0.14	0.003	0.2	0.94	5	<10	580	<0.5	<2	0.04	<0.5	6	14	20	1.86
CC149910		0.36	0.002	<0.2	0.97	7	<10	830	<0.5	<2	0.04	<0.5	7	13	30	1.84
CC149911		0.44	0.002	0.4	1.86	16	<10	1800	0.6	<2	0.27	<0.5	21	100	36	3.35
CC149912		0.24	0.003	0.2	1.14	3	<10	910	<0.5	<2	0.14	<0.5	8	69	32	1.47
CC149913		0.38	0.002	<0.2	1.02	7	<10	1730	<0.5	<2	0.10	<0.5	11	60	26	1.82
CC149914		0.24	0.006	0.3	1.95	2	<10	580	<0.5	<2	0.45	<0.5	22	310	95	2.06
CC149915		0.24	0.003	<0.2	1.23	<2	<10	270	<0.5	<2	0.32	<0.5	64	563	59	3.45
CC149916		0.20	0.009	0.6	0.80	9	<10	590	<0.5	<2	0.97	<0.5	6	31	51	1.37
CC149917		0.26	0.003	0.2	0.75	6	<10	1250	<0.5	<2	0.12	10.6	2	10	105	1.14
CC149918		0.20	0.004	1.2	0.81	21	<10	240	<0.5	<2	0.01	<0.5	7	27	25	2.41
CC149919		0.28	0.001	<0.2	0.61	5	<10	180	<0.5	<2	0.03	<0.5	7	33	26	2.05
CC149920		0.26	0.001	0.2	0.82	7	<10	410	<0.5	<2	0.04	<0.5	11	102	14	2.23



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149741		<10	1	0.03	10	0.13	124	<1	0.02	9	180	3	<0.01	<2	1	8
CC149742		<10	1	0.08	10	0.25	628	<1	0.02	26	760	8	0.04	<2	2	34
CC149743		10	1	0.11	20	0.41	1215	<1	0.02	28	630	10	0.03	<2	6	42
CC149744		<10	<1	0.02	<10	0.02	39	<1	0.03	2	110	<2	<0.01	<2	<1	11
CC149745		10	<1	0.04	10	0.20	228	<1	0.02	15	420	5	<0.01	2	1	36
CC149746		<10	<1	0.08	20	0.24	320	<1	<0.01	27	450	8	<0.01	<2	1	6
CC149747		<10	<1	0.06	10	0.26	183	<1	0.01	29	230	8	<0.01	2	1	10
CC149748		<10	1	0.09	30	0.75	568	<1	0.02	104	700	11	0.04	<2	3	58
CC149749		<10	<1	0.10	20	0.70	527	1	0.02	115	530	11	0.06	<2	3	66
CC149750		<10	<1	0.08	10	0.63	539	2	0.01	101	170	10	0.02	<2	2	16
CC149796		<10	<1	0.08	10	0.65	865	1	0.02	68	470	10	0.04	3	9	35
CC149797		<10	<1	0.10	10	0.43	564	1	0.02	28	370	7	0.03	<2	4	20
CC149798		<10	<1	0.11	10	1.17	1240	1	0.02	275	380	11	0.03	<2	8	35
CC149799		<10	<1	0.06	10	0.43	602	1	0.03	66	520	7	0.05	<2	4	54
CC149800		<10	<1	0.09	10	0.33	654	1	0.02	49	290	8	0.02	2	3	16
CC149896		<10	1	0.06	10	0.45	825	1	0.02	36	290	9	0.02	<2	5	23
CC149897		10	<1	0.11	10	0.30	681	1	0.02	84	300	13	0.02	<2	6	15
CC149898		<10	<1	0.05	10	0.27	1320	1	0.02	32	440	12	0.02	<2	1	7
CC149899		<10	<1	0.07	20	0.35	305	1	0.01	27	150	7	0.01	<2	1	4
CC149900		<10	<1	0.08	10	0.26	987	1	0.02	16	250	8	0.02	<2	2	17
CC149901		<10	<1	0.21	10	0.43	730	2	0.02	77	450	13	0.20	2	3	25
CC149902		<10	<1	0.09	10	0.46	383	2	0.01	42	300	13	0.02	<2	3	17
CC149903		<10	<1	0.11	20	0.19	1510	1	0.02	25	390	13	0.02	<2	2	14
CC149904		<10	<1	0.13	10	0.25	822	1	0.02	27	470	13	0.03	<2	2	22
CC149905		10	<1	0.11	20	0.26	1525	2	0.02	31	300	13	0.02	<2	5	11
CC149906		<10	<1	0.07	20	0.23	325	1	0.01	16	170	8	0.01	<2	1	6
CC149907		<10	<1	0.03	20	0.13	204	1	0.01	8	180	5	0.01	<2	1	4
CC149908		<10	<1	0.05	20	0.21	322	2	0.01	16	150	11	0.01	<2	1	7
CC149909		<10	<1	0.06	10	0.19	381	2	0.01	15	200	7	0.01	<2	1	6
CC149910		<10	<1	0.04	20	0.22	312	1	0.01	24	90	7	0.01	<2	1	5
CC149911		<10	<1	0.09	10	0.54	656	1	0.02	116	230	9	0.02	2	3	47
CC149912		<10	<1	0.07	10	0.60	455	1	0.02	63	210	5	0.02	<2	2	10
CC149913		<10	<1	0.05	10	0.40	745	1	0.01	67	140	7	0.01	<2	2	13
CC149914		<10	<1	0.02	<10	3.36	527	<1	0.03	553	620	4	0.05	<2	5	29
CC149915		<10	<1	0.02	<10	7.52	610	<1	0.02	887	610	4	0.05	<2	6	24
CC149916		<10	<1	0.05	10	0.48	390	1	0.02	99	580	11	0.08	2	2	150
CC149917		<10	<1	0.04	10	0.03	38	3	0.02	11	810	27	0.04	<2	<1	50
CC149918		<10	<1	0.06	20	0.17	378	2	0.01	40	180	10	0.01	5	1	7
CC149919		<10	<1	0.04	20	0.14	211	2	0.01	23	210	7	0.01	<2	1	4
CC149920		<10	<1	0.04	20	0.43	514	1	0.01	66	150	6	0.01	<2	1	6



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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 ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
CC149741		<20	0.01	<10	<10	24	<10	19
CC149742		<20	0.01	<10	<10	24	<10	43
CC149743		<20	0.01	<10	<10	51	<10	55
CC149744		<20	0.02	<10	<10	9	<10	5
CC149745		<20	0.03	<10	<10	45	<10	41
CC149746		<20	0.01	<10	<10	38	<10	66
CC149747		<20	0.01	<10	<10	21	<10	48
CC149748		<20	0.01	<10	<10	28	<10	77
CC149749		<20	0.01	<10	<10	23	<10	70
CC149750		<20	0.01	<10	<10	35	<10	54
CC149796		<20	0.01	<10	<10	63	<10	81
CC149797		<20	0.02	<10	<10	42	<10	48
CC149798		<20	0.01	<10	<10	51	<10	78
CC149799		<20	0.01	<10	<10	30	<10	42
CC149800		<20	0.01	<10	<10	35	<10	44
CC149896		<20	0.01	<10	<10	54	<10	55
CC149897		<20	0.01	<10	<10	69	<10	36
CC149898		<20	0.01	<10	<10	36	<10	36
CC149899		<20	0.01	<10	<10	36	<10	39
CC149900		<20	0.02	<10	<10	35	<10	42
CC149901		<20	0.01	<10	<10	26	<10	83
CC149902		<20	0.01	<10	<10	38	<10	66
CC149903		<20	0.01	<10	<10	37	<10	56
CC149904		<20	0.01	<10	<10	27	<10	48
CC149905		<20	0.01	<10	<10	44	<10	56
CC149906		<20	0.01	<10	<10	24	<10	47
CC149907		<20	0.01	<10	<10	19	<10	30
CC149908		<20	0.01	<10	<10	33	<10	43
CC149909		<20	0.01	<10	<10	28	<10	37
CC149910		<20	<0.01	<10	<10	21	<10	35
CC149911		<20	<0.01	<10	<10	37	<10	69
CC149912		<20	0.01	<10	<10	20	<10	45
CC149913		<20	0.01	<10	<10	27	<10	38
CC149914		<20	0.02	<10	<10	28	<10	21
CC149915		<20	0.02	<10	<10	31	<10	24
CC149916		<20	<0.01	<10	<10	19	<10	33
CC149917		<20	<0.01	<10	<10	20	<10	47
CC149918		<20	<0.01	<10	<10	22	<10	77
CC149919		<20	0.01	<10	<10	27	<10	47
CC149920		<20	0.01	<10	<10	28	<10	42



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CERTIFICATE OF ANALYSIS WH11149815

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149921		0.20	<0.001	<0.2	0.74	7	<10	280	<0.5	<2	0.05	<0.5	5	25	15	1.90
CC149922		0.24	0.001	<0.2	0.47	3	<10	170	<0.5	<2	0.03	<0.5	3	8	8	1.17
CC149923		0.36	0.002	0.2	0.93	5	<10	190	<0.5	<2	0.02	<0.5	5	17	23	2.07
CC149924		0.30	0.002	<0.2	1.03	6	<10	410	<0.5	<2	0.02	<0.5	6	14	19	2.07
CC149925		0.36	0.001	<0.2	1.31	6	<10	1110	<0.5	<2	0.05	<0.5	7	20	29	1.95
CC149926		0.20	0.001	<0.2	1.69	8	<10	690	<0.5	<2	0.21	<0.5	10	48	26	2.68
CC149927		0.26	0.003	<0.2	1.09	6	<10	640	<0.5	<2	0.11	<0.5	7	19	35	2.05
CC149928		0.30	0.001	<0.2	0.51	5	<10	220	<0.5	<2	0.09	<0.5	5	9	16	1.41
CC149929		0.22	0.013	0.7	1.87	9	<10	1900	1.0	<2	1.07	<0.5	15	32	107	2.97
CC149930		0.26	<0.001	<0.2	1.11	5	<10	740	<0.5	<2	0.16	<0.5	17	21	17	1.74
CC149931		0.22	0.001	0.3	0.54	4	<10	320	<0.5	<2	0.11	<0.5	4	22	10	1.26
CC149932		0.24	<0.001	<0.2	1.14	6	<10	440	<0.5	<2	0.51	<0.5	11	48	24	2.10
CC149933		0.20	0.002	0.3	0.74	4	<10	270	<0.5	<2	0.11	1.2	7	9	39	1.27
CC149934		0.18	0.001	<0.2	1.40	16	<10	590	<0.5	<2	0.12	<0.5	12	37	30	3.47
CC149935		0.16	0.003	<0.2	0.99	4	<10	910	<0.5	<2	0.29	<0.5	6	21	17	1.33
CC149936		0.22	0.018	<0.2	1.90	11	<10	590	<0.5	<2	0.12	<0.5	20	153	25	3.44
CC149937		0.24	0.003	<0.2	1.54	9	<10	300	<0.5	<2	0.10	<0.5	10	53	20	2.84
CC149938		0.26	<0.001	<0.2	0.85	4	<10	330	<0.5	<2	0.14	<0.5	6	20	16	1.71
CC149939		0.30	0.002	0.2	2.03	8	<10	1450	0.8	<2	0.88	<0.5	18	80	76	3.46
CC149940		0.28	0.001	<0.2	2.03	4	<10	410	<0.5	<2	0.29	<0.5	9	54	24	2.85
CC149941		0.14	<0.001	0.2	1.49	3	<10	960	<0.5	<2	0.46	<0.5	11	44	42	2.29
CC149942		0.20	<0.001	<0.2	1.47	6	<10	530	<0.5	<2	0.18	<0.5	6	32	18	2.23
CC149943		0.28	<0.001	<0.2	2.17	5	<10	620	<0.5	<2	0.26	<0.5	9	50	28	2.81
CC149944		0.26	0.001	<0.2	2.29	5	<10	610	<0.5	<2	0.14	<0.5	9	50	26	2.81
CC149945		0.20	0.002	<0.2	1.64	4	<10	870	<0.5	<2	0.19	<0.5	7	43	16	3.34
CC149946		0.16	0.006	0.2	1.51	8	<10	350	<0.5	<2	0.07	<0.5	17	47	79	6.41
CC149947		0.26	0.002	0.2	1.16	6	<10	390	<0.5	<2	0.05	<0.5	9	56	34	2.42
CC149948		0.22	0.001	<0.2	0.63	7	<10	230	<0.5	<2	0.06	<0.5	8	42	22	2.09
CC149949		0.16	0.001	<0.2	1.17	8	<10	980	<0.5	<2	0.26	<0.5	21	166	28	2.50
CC149950		0.22	0.001	<0.2	0.36	18	<10	190	<0.5	<2	0.03	<0.5	3	6	20	1.28
CC149961		0.26	<0.001	<0.2	1.42	8	<10	200	<0.5	<2	0.23	<0.5	10	72	11	2.94
CC149962		0.30	0.006	<0.2	1.74	6	<10	690	<0.5	<2	0.31	<0.5	27	431	27	3.04
CC149963		0.24	0.002	<0.2	1.26	7	<10	380	<0.5	<2	0.13	<0.5	9	57	34	2.38
CC149964		0.34	0.001	<0.2	1.65	4	<10	720	<0.5	<2	0.12	<0.5	9	84	16	2.17
CC149965		0.42	0.002	<0.2	1.15	7	<10	470	<0.5	<2	0.09	<0.5	10	90	15	2.00
CC149966		0.30	0.006	0.2	2.57	26	<10	700	<0.5	<2	0.42	<0.5	51	705	29	5.20
CC149967		0.18	0.003	<0.2	1.71	34	<10	670	<0.5	<2	0.79	<0.5	87	1245	27	5.60
CC149968		0.32	0.026	<0.2	1.93	13	<10	470	0.7	2	0.45	<0.5	16	64	55	3.92
CC149969		0.40	0.016	<0.2	2.07	<2	<10	150	<0.5	<2	0.64	<0.5	33	324	71	4.04
CC149970		0.26	0.024	0.3	1.41	228	<10	250	0.5	<2	1.16	<0.5	38	98	52	6.86



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CERTIFICATE OF ANALYSIS WH11149815

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149921		<10	<1	0.04	20	0.24	266	1	0.01	18	150	5	0.01	<2	1	6
CC149922		<10	<1	0.04	20	0.10	233	1	0.01	9	140	4	0.01	<2	1	4
CC149923		<10	<1	0.04	20	0.22	232	1	0.01	18	180	7	0.01	<2	1	4
CC149924		<10	<1	0.03	20	0.16	308	1	0.01	16	140	21	0.01	<2	1	3
CC149925		<10	<1	0.07	20	0.29	876	1	<0.01	21	230	10	0.01	<2	3	6
CC149926		10	<1	0.06	20	0.48	349	1	0.01	31	330	8	0.01	<2	3	8
CC149927		<10	<1	0.08	20	0.29	473	1	0.01	23	320	7	0.01	<2	2	8
CC149928		<10	<1	0.07	20	0.14	394	1	0.01	13	160	5	0.01	<2	1	6
CC149929		10	<1	0.13	10	0.28	2030	2	0.02	47	760	16	0.04	3	6	54
CC149930		<10	<1	0.08	20	0.22	1715	1	0.01	15	430	10	0.02	<2	2	17
CC149931		<10	<1	0.05	10	0.15	214	1	0.01	14	200	5	0.01	<2	1	9
CC149932		<10	<1	0.07	10	0.27	1310	<1	0.02	37	350	7	0.02	<2	3	24
CC149933		<10	<1	0.04	10	0.05	1340	1	0.02	16	380	5	0.03	<2	1	9
CC149934		<10	<1	0.06	20	0.43	555	2	0.01	32	170	10	0.01	<2	4	9
CC149935		<10	<1	0.05	10	0.23	770	1	0.02	24	300	5	0.02	<2	2	24
CC149936		<10	<1	0.05	20	1.02	513	1	0.01	100	150	11	0.01	<2	3	9
CC149937		<10	<1	0.05	20	0.43	309	1	0.01	37	180	11	0.01	<2	2	8
CC149938		<10	<1	0.07	10	0.18	390	1	0.01	16	360	6	0.02	<2	1	9
CC149939		10	<1	0.11	10	0.65	1450	1	0.01	77	1020	11	0.05	<2	11	33
CC149940		10	<1	0.04	10	0.38	327	1	0.02	27	330	6	0.02	<2	4	13
CC149941		<10	<1	0.07	10	0.35	1270	1	0.02	28	270	9	0.02	<2	4	14
CC149942		10	1	0.03	10	0.26	197	1	0.01	19	220	6	0.01	<2	3	7
CC149943		10	<1	0.05	10	0.42	383	1	0.01	29	320	9	0.01	<2	3	9
CC149944		10	<1	0.03	20	0.53	287	1	0.01	31	180	8	0.01	<2	4	10
CC149945		10	<1	0.03	10	0.25	361	1	0.01	16	270	10	0.01	<2	3	10
CC149946		10	<1	0.08	10	0.43	1650	3	0.01	33	970	23	0.03	2	4	8
CC149947		<10	<1	0.06	10	0.39	504	2	0.01	39	230	9	0.01	<2	2	6
CC149948		<10	<1	0.06	20	0.28	494	2	<0.01	31	280	8	0.01	<2	1	6
CC149949		<10	<1	0.06	10	1.14	400	1	0.01	202	160	11	0.01	<2	3	19
CC149950		<10	<1	0.03	10	0.02	281	2	0.02	29	200	5	0.01	3	1	6
CC149961		10	<1	0.05	10	0.82	437	1	0.01	35	130	6	0.01	<2	2	9
CC149962		<10	<1	0.04	10	3.56	520	1	0.01	259	130	7	0.01	<2	3	9
CC149963		<10	<1	0.06	10	0.61	298	1	0.01	49	200	9	0.01	<2	2	7
CC149964		<10	<1	0.04	10	0.44	357	1	0.01	43	130	7	0.01	<2	3	6
CC149965		<10	<1	0.05	10	0.62	472	1	<0.01	54	110	7	<0.01	<2	2	6
CC149966		<10	<1	0.10	<10	2.82	1035	1	0.01	483	250	5	0.01	<2	7	17
CC149967		<10	<1	0.09	<10	5.93	994	<1	0.02	1425	280	3	0.05	<2	13	52
CC149968		10	<1	0.13	20	1.05	840	2	0.01	55	560	20	0.01	<2	6	61
CC149969		10	1	0.14	20	5.75	586	<1	0.02	927	470	15	0.02	<2	7	40
CC149970		<10	<1	0.08	<10	0.93	876	2	0.01	165	400	2	0.05	21	26	69



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CERTIFICATE OF ANALYSIS WH11149815

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149921		<20	0.01	<10	<10	32	<10	32
CC149922		<20	0.02	<10	<10	26	<10	21
CC149923		<20	0.01	<10	<10	30	<10	40
CC149924		<20	<0.01	<10	<10	24	<10	51
CC149925		<20	0.01	<10	<10	34	<10	52
CC149926		<20	0.06	<10	<10	72	<10	79
CC149927		<20	0.01	<10	<10	31	<10	49
CC149928		<20	0.01	<10	<10	21	<10	29
CC149929		<20	0.01	<10	<10	53	<10	55
CC149930		<20	0.01	<10	<10	37	<10	34
CC149931		<20	0.01	<10	<10	22	<10	26
CC149932		<20	0.02	<10	<10	43	<10	36
CC149933		<20	0.02	<10	<10	27	<10	36
CC149934		<20	0.01	<10	<10	61	<10	59
CC149935		<20	0.02	<10	<10	38	<10	29
CC149936		<20	0.01	<10	<10	64	<10	63
CC149937		<20	0.02	<10	<10	57	<10	52
CC149938		<20	0.01	<10	<10	35	<10	36
CC149939		<20	0.01	<10	<10	65	<10	67
CC149940		<20	0.04	<10	<10	77	<10	54
CC149941		<20	0.02	<10	<10	47	<10	43
CC149942		<20	0.03	<10	<10	62	<10	43
CC149943		<20	0.06	<10	<10	89	<10	95
CC149944		<20	0.06	<10	<10	90	<10	70
CC149945		<20	0.11	<10	<10	122	<10	62
CC149946		<20	0.08	<10	<10	145	<10	96
CC149947		<20	0.01	<10	<10	37	<10	53
CC149948		<20	0.01	<10	<10	32	<10	61
CC149949		<20	0.01	<10	<10	29	<10	57
CC149950		<20	0.01	<10	<10	25	<10	49
CC149961		<20	0.06	<10	<10	69	<10	33
CC149962		<20	0.01	<10	<10	35	<10	45
CC149963		<20	0.01	<10	<10	57	<10	47
CC149964		<20	0.01	<10	<10	51	<10	48
CC149965		<20	0.01	<10	<10	30	<10	37
CC149966		<20	0.01	<10	<10	48	<10	39
CC149967		<20	0.01	<10	<10	56	<10	29
CC149968		<20	0.03	<10	<10	49	<10	90
CC149969		<20	0.02	<10	<10	40	<10	66
CC149970		<20	<0.01	10	<10	101	<10	87



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Project: Wolverine - LOOP

CERTIFICATE OF ANALYSIS WH11149815

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



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CERTIFICATE WH11149816

Project: Wolverine - LOOP
P.O. No.:
This report is for 102 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

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

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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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Project: Wolverine - LOOP

CERTIFICATE OF ANALYSIS WH11149816

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC149971		0.58	0.004	0.3	1.39	13	<10	680	0.7	<2	1.04	0.6	9	22	29	2.53
CC149972		0.48	0.005	0.2	1.28	11	<10	500	0.5	<2	0.91	0.8	12	45	32	2.34
CC149973		0.34	0.002	<0.2	1.41	12	<10	640	<0.5	<2	0.22	<0.5	10	83	18	2.54
CC149974		0.50	0.004	0.2	2.10	10	<10	700	0.9	<2	0.98	<0.5	19	203	171	3.85
CC149975		0.34	0.010	<0.2	2.56	6	<10	830	<0.5	2	1.18	<0.5	34	389	279	4.28
CC149976		0.48	0.003	<0.2	1.69	13	<10	330	<0.5	2	0.73	<0.5	28	326	46	3.78
CC149977		0.22	0.003	0.3	1.52	11	<10	680	0.5	<2	0.91	<0.5	16	72	30	3.13
CC149978		0.30	0.003	<0.2	1.95	8	<10	650	0.6	2	1.04	<0.5	18	260	60	3.21
CC149979		0.46	0.008	<0.2	1.66	13	<10	740	0.7	<2	0.29	<0.5	11	40	63	3.19
CC149980		0.32	0.002	<0.2	2.02	14	<10	490	0.6	2	0.15	<0.5	13	54	49	5.25
CC149981		0.36	0.001	<0.2	2.37	12	<10	450	<0.5	<2	0.16	<0.5	13	106	39	3.81
CC149982		0.30	<0.001	<0.2	1.42	11	<10	570	<0.5	2	0.23	<0.5	14	111	19	3.23
CC149983		0.42	0.001	<0.2	2.20	6	<10	400	<0.5	2	0.46	<0.5	41	453	18	3.63
CC149984		0.58	0.001	<0.2	1.79	7	<10	340	<0.5	2	0.38	<0.5	35	595	18	3.82
CC149985		0.30	0.001	<0.2	1.02	10	<10	700	<0.5	<2	0.15	<0.5	10	120	16	2.06
CC149986		0.42	0.013	<0.2	1.38	30	<10	1320	<0.5	2	0.68	<0.5	29	180	64	3.96
CC149987		0.38	0.004	<0.2	1.67	11	<10	1230	<0.5	<2	0.12	<0.5	14	158	32	2.73
CC152251		0.28	0.014	<0.2	0.49	46	<10	780	<0.5	<2	0.95	<0.5	9	12	150	2.30
CC152252		0.22	<0.001	<0.2	0.45	16	<10	220	<0.5	<2	0.02	<0.5	9	10	16	2.54
CC152253		0.36	0.002	<0.2	1.32	9	<10	190	<0.5	2	0.06	<0.5	6	27	26	2.40
CC152254		0.20	0.001	<0.2	1.63	4	<10	350	<0.5	<2	0.18	<0.5	9	31	10	2.32
CC152255		0.16	0.030	0.2	1.91	122	<10	350	<0.5	2	2.32	<0.5	33	71	879	7.01
CC152256		0.30	0.001	<0.2	2.44	8	<10	560	<0.5	<2	0.75	<0.5	22	236	42	4.33
CC152257		0.20	0.002	<0.2	1.69	10	<10	270	<0.5	2	0.44	1.0	20	240	12	3.29
CC152258		0.36	0.005	<0.2	1.47	12	<10	490	0.5	<2	0.87	<0.5	16	95	66	2.97
CC152271		0.22	0.001	0.2	2.03	10	<10	610	0.6	<2	0.20	<0.5	16	65	54	5.12
CC152272		0.34	<0.001	<0.2	3.60	17	<10	480	<0.5	<2	0.40	<0.5	26	166	32	4.59
CC152273		0.20	0.002	<0.2	3.04	14	<10	380	<0.5	<2	0.23	<0.5	22	220	26	5.58
CC152274		0.20	<0.001	<0.2	2.40	3	<10	150	<0.5	2	0.29	<0.5	13	129	12	4.48
CC152275		0.32	0.002	<0.2	1.96	7	<10	390	<0.5	<2	1.73	<0.5	21	186	39	3.11
CC152276		0.36	0.001	<0.2	2.07	7	<10	310	<0.5	<2	0.18	<0.5	13	160	16	2.70
CC152277		0.26	0.001	<0.2	1.05	18	<10	270	0.5	<2	0.22	<0.5	28	87	41	8.03
CC152278		0.38	0.006	0.5	1.64	13	<10	700	0.8	<2	0.36	<0.5	13	32	110	2.75
CC152279		0.22	0.006	0.5	1.20	8	<10	680	0.5	<2	1.64	<0.5	7	18	119	1.86
CC152280		0.30	0.003	0.3	0.98	11	<10	490	<0.5	<2	0.69	<0.5	7	14	23	1.55
CC152401		0.22	0.009	<0.2	2.00	18	<10	1020	0.6	<2	1.66	<0.5	26	142	95	3.56
CC152402		0.20	0.001	<0.2	2.06	30	<10	580	<0.5	<2	0.68	<0.5	26	193	39	4.66
CC152403		0.16	<0.001	<0.2	2.73	42	<10	760	0.5	<2	0.44	<0.5	30	203	39	5.23
CC152404		0.38	0.002	<0.2	2.25	27	<10	290	<0.5	<2	0.46	<0.5	23	104	36	5.49
CC152405		0.24	0.001	<0.2	2.84	13	<10	210	<0.5	<2	0.48	<0.5	18	106	59	5.88



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC149971		<10	<1	0.14	20	0.49	293	3	0.01	34	970	15	0.04	2	3	74
CC149972		<10	<1	0.12	20	0.59	448	3	0.01	53	840	14	0.03	3	4	63
CC149973		<10	<1	0.07	20	0.71	469	3	0.01	52	240	11	<0.01	2	3	21
CC149974		10	<1	0.11	10	1.48	555	2	0.02	174	340	8	0.03	2	13	47
CC149975		10	<1	0.06	10	5.59	549	1	0.02	350	460	2	0.03	<2	14	40
CC149976		<10	<1	0.07	10	4.21	617	2	0.01	309	480	7	0.02	3	10	36
CC149977		<10	<1	0.09	10	0.96	540	2	0.01	63	510	10	0.03	2	6	49
CC149978		<10	<1	0.09	10	1.44	606	2	0.01	203	480	6	0.02	<2	10	51
CC149979		<10	1	0.11	20	0.47	540	3	0.01	42	440	12	<0.01	3	6	19
CC149980		10	<1	0.10	10	0.46	707	2	0.01	33	260	7	<0.01	2	7	12
CC149981		10	<1	0.05	10	0.75	441	1	0.01	56	150	6	<0.01	2	5	13
CC149982		<10	<1	0.06	20	0.83	462	1	0.01	69	150	11	<0.01	2	4	11
CC149983		<10	<1	0.03	10	4.93	595	<1	0.01	350	110	5	<0.01	<2	4	11
CC149984		<10	<1	0.06	10	4.07	652	1	0.01	276	200	5	0.01	<2	3	11
CC149985		<10	<1	0.05	20	0.75	348	1	0.01	64	110	7	<0.01	2	2	12
CC149986		<10	1	0.09	10	1.70	734	1	0.02	219	280	6	0.03	4	10	25
CC149987		<10	<1	0.06	20	0.85	459	2	0.01	85	120	7	<0.01	2	4	8
CC152251		<10	<1	0.06	10	0.39	829	2	0.01	40	340	7	0.04	2	4	90
CC152252		<10	<1	0.05	<10	0.02	1415	1	<0.01	9	120	2	<0.01	<2	1	9
CC152253		<10	<1	0.07	20	0.39	288	3	0.01	26	190	15	<0.01	2	2	8
CC152254		10	<1	0.04	10	0.33	431	2	0.01	13	160	18	<0.01	<2	2	10
CC152255		<10	<1	0.08	<10	0.75	707	1	0.01	51	840	2	0.08	214	22	94
CC152256		10	<1	0.07	10	1.61	542	2	0.01	123	190	7	0.01	2	9	24
CC152257		10	<1	0.03	10	1.46	389	1	0.01	109	130	5	0.01	<2	3	14
CC152258		<10	<1	0.12	20	1.11	451	3	0.01	174	720	12	0.02	3	7	38
CC152271		<10	1	0.05	10	0.52	622	2	0.01	37	290	12	0.01	<2	6	13
CC152272		10	<1	0.02	<10	2.24	600	1	0.01	69	110	4	0.01	<2	11	18
CC152273		10	<1	0.03	10	2.03	602	1	0.01	92	190	6	0.01	3	7	11
CC152274		10	<1	0.02	10	1.06	353	1	0.01	44	280	5	0.01	3	4	10
CC152275		<10	<1	0.05	10	2.08	374	1	0.01	99	450	7	0.07	<2	10	47
CC152276		<10	<1	0.02	20	0.99	255	1	0.01	84	130	8	0.01	<2	3	9
CC152277		<10	<1	0.03	<10	0.13	2510	1	0.01	41	510	5	0.03	<2	21	21
CC152278		<10	<1	0.10	20	0.46	659	2	0.01	52	350	22	0.01	2	4	45
CC152279		<10	<1	0.09	10	0.62	297	<1	0.01	27	750	16	0.10	<2	2	173
CC152280		<10	<1	0.09	10	0.31	803	2	0.02	22	730	14	0.04	<2	2	65
CC152401		<10	<1	0.07	10	0.94	1665	<1	0.02	146	710	7	0.06	2	13	51
CC152402		<10	1	0.08	10	1.35	877	1	0.01	110	480	6	0.04	4	8	27
CC152403		<10	1	0.05	10	1.38	1275	1	0.01	169	560	7	0.03	4	9	23
CC152404		<10	<1	0.08	10	0.94	744	2	0.01	63	290	7	0.01	2	10	15
CC152405		10	<1	0.03	<10	1.17	622	1	0.02	41	440	5	0.03	<2	7	13



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CERTIFICATE OF ANALYSIS WH11149816

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC149971		<20	0.01	<10	<10	45	<10	106
CC149972		<20	0.01	<10	<10	48	<10	106
CC149973		<20	0.01	<10	<10	53	<10	55
CC149974		<20	0.03	<10	<10	86	<10	84
CC149975		<20	0.07	<10	<10	84	<10	103
CC149976		<20	0.03	<10	<10	65	<10	71
CC149977		<20	0.01	<10	<10	57	<10	65
CC149978		<20	0.01	<10	<10	63	<10	86
CC149979		<20	0.01	<10	<10	61	<10	91
CC149980		<20	0.01	<10	<10	102	<10	62
CC149981		<20	0.02	<10	<10	97	<10	50
CC149982		<20	0.03	<10	<10	66	<10	44
CC149983		<20	0.03	<10	<10	49	<10	35
CC149984		<20	0.02	<10	<10	47	<10	41
CC149985		<20	0.01	<10	<10	25	<10	37
CC149986		<20	0.01	<10	<10	50	<10	63
CC149987		<20	0.01	<10	<10	46	<10	47
CC152251		<20	<0.01	<10	<10	17	<10	76
CC152252		<20	<0.01	<10	<10	15	<10	34
CC152253		<20	0.01	<10	<10	55	<10	78
CC152254		<20	0.03	<10	<10	89	<10	84
CC152255		<20	<0.01	<10	<10	50	<10	82
CC152256		<20	0.02	<10	<10	101	<10	56
CC152257		<20	0.04	<10	<10	80	<10	237
CC152258		<20	0.02	<10	<10	49	<10	93
CC152271		<20	0.02	<10	<10	123	<10	63
CC152272		<20	0.01	<10	<10	112	<10	55
CC152273		<20	0.02	<10	<10	141	<10	58
CC152274		<20	0.05	<10	<10	181	<10	60
CC152275		<20	0.07	<10	<10	83	<10	88
CC152276		<20	0.03	<10	<10	80	<10	45
CC152277		<20	0.01	<10	<10	240	<10	111
CC152278		<20	0.01	<10	<10	51	<10	87
CC152279		<20	0.01	<10	<10	34	<10	87
CC152280		<20	0.01	<10	<10	30	<10	59
CC152401		<20	0.02	<10	<10	57	<10	71
CC152402		<20	0.02	<10	<10	92	<10	49
CC152403		<20	0.03	<10	<10	124	<10	62
CC152404		<20	0.04	<10	<10	125	<10	65
CC152405		<20	0.10	<10	<10	180	<10	53



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC152406		0.12	0.007	<0.2	2.95	7	<10	270	<0.5	<2	0.24	<0.5	27	87	50	6.60
CC152407		0.22	0.002	<0.2	2.39	13	<10	720	<0.5	<2	1.19	<0.5	21	81	45	3.86
CC152408		0.22	0.001	<0.2	2.41	7	<10	450	0.5	<2	1.21	2.7	22	135	1010	3.29
CC152409		0.42	0.004	<0.2	2.47	11	<10	470	0.6	<2	0.65	<0.5	20	114	183	3.44
CC152410		0.24	0.001	<0.2	2.16	9	<10	130	<0.5	<2	0.34	0.5	17	163	49	3.94
CC152411		0.24	<0.001	<0.2	2.00	4	<10	170	<0.5	<2	0.42	<0.5	13	115	21	3.33
CC152412		0.30	0.001	<0.2	2.44	9	<10	380	<0.5	<2	0.22	<0.5	19	283	21	3.19
CC152413		0.14	0.002	<0.2	1.25	5	<10	310	<0.5	<2	0.12	<0.5	5	24	11	1.52
CC152414		0.26	0.009	0.2	1.50	9	<10	430	0.5	<2	0.23	<0.5	12	21	217	2.31
CC152415		0.36	0.003	0.2	0.59	5	<10	270	<0.5	<2	0.98	<0.5	11	16	65	1.90
CC152416		0.28	0.007	0.2	1.62	12	<10	440	<0.5	<2	1.04	<0.5	19	47	76	3.45
CC152417		0.28	0.006	0.2	0.87	10	<10	300	<0.5	<2	1.08	<0.5	8	15	49	1.77
CC152451		0.26	0.003	<0.2	2.11	114	<10	530	<0.5	<2	0.34	<0.5	22	130	24	4.34
CC152452		0.22	<0.001	<0.2	1.43	10	<10	670	<0.5	<2	0.21	<0.5	23	203	18	2.88
CC152453		0.22	0.001	<0.2	1.81	7	<10	510	<0.5	<2	0.33	<0.5	36	387	18	3.52
CC152454		0.40	0.003	<0.2	1.40	6	<10	620	<0.5	<2	0.22	<0.5	21	264	19	2.55
CC152455		0.26	0.003	<0.2	0.96	9	<10	570	<0.5	<2	0.09	<0.5	9	89	17	1.68
CC152456		0.38	0.003	<0.2	1.11	9	<10	980	<0.5	<2	0.40	<0.5	13	101	34	1.98
CC152457		0.20	0.002	<0.2	1.00	6	<10	420	<0.5	2	0.10	<0.5	12	115	14	2.30
CC152458		0.24	0.002	<0.2	0.66	7	<10	250	<0.5	<2	0.17	<0.5	10	107	11	1.64
CC152459		0.34	0.039	0.3	1.69	10	<10	300	0.6	2	0.74	0.5	15	47	62	3.01
CC152460		0.30	0.014	0.2	1.41	12	<10	220	<0.5	<2	0.35	<0.5	13	50	41	2.88
CC152461		0.26	0.012	0.3	1.78	22	<10	380	0.7	<2	0.99	<0.5	17	57	52	3.32
CC152462		0.30	0.007	<0.2	2.37	<2	<10	50	<0.5	<2	0.28	<0.5	62	677	19	3.70
CC152463		0.26	0.003	0.3	1.66	4	<10	640	<0.5	<2	0.72	<0.5	46	524	48	3.50
CC152464		0.34	0.002	<0.2	2.88	54	<10	1820	<0.5	<2	0.49	<0.5	26	184	50	3.83
CC152465		0.20	0.001	<0.2	0.90	6	<10	420	<0.5	<2	0.16	<0.5	12	72	18	1.65
CC152466		0.28	0.001	<0.2	1.34	7	<10	310	<0.5	<2	0.10	<0.5	19	192	18	3.22
CC152467		0.16	0.001	<0.2	0.96	9	<10	530	<0.5	<2	0.06	<0.5	7	59	17	1.84
CC152468		0.18	0.003	<0.2	1.37	6	<10	360	<0.5	<2	0.21	<0.5	33	159	20	3.10
CC152469		0.38	0.003	<0.2	1.59	8	<10	370	<0.5	<2	0.26	<0.5	36	420	21	3.09
CC152470		0.28	<0.001	<0.2	2.18	8	<10	360	<0.5	<2	0.24	<0.5	20	177	35	3.22
CC152471		0.26	0.001	<0.2	1.27	11	<10	320	<0.5	<2	0.17	<0.5	12	108	20	2.90
CC152472		0.28	0.002	<0.2	1.05	5	<10	140	<0.5	<2	0.10	<0.5	4	29	26	1.17
CC152473		0.32	0.002	<0.2	1.73	13	<10	470	<0.5	<2	0.08	<0.5	10	29	42	3.35
CC152474		0.28	<0.001	<0.2	1.33	5	<10	210	<0.5	<2	0.16	<0.5	8	41	19	2.37
CC152475		0.32	0.001	<0.2	1.58	8	<10	390	<0.5	<2	0.17	<0.5	10	49	23	2.69
CC152476		0.48	0.001	<0.2	1.72	8	<10	390	<0.5	<2	1.12	<0.5	20	67	34	3.46
CC152477		0.30	0.001	<0.2	2.37	6	<10	270	<0.5	<2	0.44	<0.5	24	328	19	3.62
CC152478		0.34	0.001	<0.2	1.90	12	<10	510	<0.5	<2	0.33	<0.5	34	351	26	4.04



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC152406		10	<1	0.02	<10	1.14	1600	2	0.01	46	510	5	0.01	<2	11	10
CC152407		<10	<1	0.05	10	1.33	1030	<1	0.02	48	450	7	0.04	<2	11	45
CC152408		<10	<1	0.04	10	1.52	1320	1	0.01	90	500	6	0.04	<2	18	31
CC152409		<10	<1	0.07	10	1.49	857	1	0.01	68	180	14	0.01	<2	14	24
CC152410		10	<1	0.03	10	1.24	414	1	0.01	72	320	7	0.02	<2	4	11
CC152411		10	<1	0.03	<10	0.76	513	1	0.01	45	260	7	0.01	<2	3	12
CC152412		<10	<1	0.03	10	2.17	363	1	0.01	148	130	7	0.01	<2	3	9
CC152413		<10	<1	0.05	10	0.29	142	1	0.01	14	140	4	0.01	<2	2	8
CC152414		<10	<1	0.09	10	0.21	1030	1	0.01	34	720	10	0.03	<2	3	21
CC152415		<10	<1	0.06	10	0.21	808	1	0.01	26	340	9	0.05	<2	2	53
CC152416		<10	<1	0.09	10	0.89	927	1	0.01	53	720	13	0.04	<2	6	54
CC152417		<10	<1	0.05	10	0.40	546	1	0.01	33	350	10	0.04	<2	1	56
CC152451		<10	<1	0.05	10	1.17	639	1	0.01	77	150	8	0.01	3	5	15
CC152452		<10	<1	0.05	10	1.61	652	1	0.01	143	120	10	0.01	<2	3	12
CC152453		<10	<1	0.05	10	3.79	737	<1	0.01	266	140	12	0.01	<2	3	14
CC152454		<10	<1	0.05	10	1.89	525	1	0.01	147	150	9	0.01	<2	2	11
CC152455		<10	<1	0.05	20	0.67	258	1	0.01	64	120	7	0.01	<2	1	9
CC152456		<10	<1	0.07	10	0.64	539	1	0.02	154	210	10	0.02	<2	4	24
CC152457		<10	<1	0.06	10	0.56	346	1	0.01	77	100	8	0.01	<2	1	7
CC152458		<10	<1	0.08	10	0.41	405	1	0.01	49	240	6	0.01	<2	1	9
CC152459		<10	1	0.11	20	0.91	447	6	0.01	39	720	26	0.04	<2	4	55
CC152460		<10	<1	0.11	20	0.82	538	3	0.01	44	570	16	0.01	<2	5	48
CC152461		<10	<1	0.13	20	0.92	979	6	0.02	46	700	20	0.04	2	6	90
CC152462		<10	<1	0.03	<10	6.39	860	<1	0.02	653	100	3	0.01	2	6	13
CC152463		<10	<1	0.10	10	3.77	871	1	0.02	596	310	6	0.03	2	8	33
CC152464		<10	1	0.12	<10	2.05	294	<1	0.03	130	110	2	0.01	6	17	14
CC152465		<10	<1	0.06	10	0.48	593	1	0.01	47	200	6	0.01	2	2	8
CC152466		<10	<1	0.04	10	0.65	355	1	0.01	173	180	6	0.01	2	2	7
CC152467		<10	<1	0.04	20	0.33	226	1	0.01	46	90	9	<0.01	<2	1	6
CC152468		<10	<1	0.06	10	0.70	1470	2	0.01	71	480	11	0.01	<2	2	9
CC152469		<10	1	0.03	10	4.65	592	1	0.01	334	120	7	<0.01	<2	3	9
CC152470		<10	1	0.04	10	1.51	312	2	0.01	138	130	14	0.01	2	3	9
CC152471		<10	<1	0.04	10	0.66	415	1	0.01	66	140	9	<0.01	2	3	8
CC152472		<10	<1	0.07	10	0.24	86	1	0.01	30	470	7	0.01	<2	1	13
CC152473		<10	<1	0.05	10	0.34	436	3	0.01	25	200	11	<0.01	2	3	10
CC152474		<10	<1	0.03	10	0.33	192	1	0.01	25	160	9	0.01	<2	3	9
CC152475		<10	<1	0.05	10	0.44	352	1	0.01	34	160	8	0.01	<2	5	11
CC152476		<10	<1	0.07	10	1.25	892	<1	0.02	64	550	7	0.04	2	14	53
CC152477		10	<1	0.04	10	2.97	366	2	0.01	167	100	6	0.01	<2	4	12
CC152478		<10	<1	0.06	10	2.51	851	1	0.02	217	130	10	0.01	<2	9	13



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CERTIFICATE OF ANALYSIS WH11149816

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC152406		<20	0.06	<10	<10	202	<10	79
CC152407		<20	0.08	<10	<10	101	<10	52
CC152408		<20	0.10	<10	<10	100	<10	2190
CC152409		<20	0.04	<10	<10	92	<10	166
CC152410		<20	0.13	<10	<10	147	<10	71
CC152411		<20	0.14	<10	<10	135	<10	43
CC152412		<20	0.03	<10	<10	77	<10	47
CC152413		<20	0.01	<10	<10	64	<10	34
CC152414		<20	0.01	<10	<10	35	<10	95
CC152415		<20	0.01	<10	<10	21	<10	54
CC152416		<20	0.01	<10	<10	45	<10	86
CC152417		<20	<0.01	<10	<10	18	<10	51
CC152451		<20	0.05	<10	<10	103	<10	55
CC152452		<20	0.02	<10	<10	41	<10	44
CC152453		<20	0.03	<10	<10	47	<10	56
CC152454		<20	0.01	<10	<10	35	<10	47
CC152455		<20	0.01	<10	<10	24	<10	35
CC152456		<20	0.01	<10	<10	29	<10	47
CC152457		<20	0.01	<10	<10	32	<10	35
CC152458		<20	0.01	<10	<10	31	<10	38
CC152459		<20	0.01	<10	<10	37	<10	96
CC152460		<20	0.04	<10	<10	42	<10	92
CC152461		<20	0.03	<10	<10	51	<10	91
CC152462		<20	0.03	<10	<10	37	<10	40
CC152463		<20	0.02	<10	<10	44	<10	55
CC152464		<20	<0.01	<10	<10	86	<10	34
CC152465		<20	0.01	<10	<10	27	<10	56
CC152466		<20	0.01	<10	<10	51	<10	49
CC152467		<20	0.01	<10	<10	24	<10	50
CC152468		<20	0.02	<10	<10	61	<10	55
CC152469		<20	0.02	<10	<10	34	<10	50
CC152470		<20	0.04	<10	<10	64	<10	60
CC152471		<20	0.03	<10	<10	56	<10	49
CC152472		<20	0.01	<10	<10	31	<10	26
CC152473		<20	0.01	<10	<10	62	<10	59
CC152474		<20	0.03	<10	<10	84	<10	52
CC152475		<20	0.01	<10	<10	71	<10	54
CC152476		<20	0.01	<10	<10	78	<10	53
CC152477		<20	0.11	<10	<10	110	<10	101
CC152478		<20	0.05	<10	<10	82	<10	67



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CERTIFICATE OF ANALYSIS WH11149816

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC152479		0.22	0.001	<0.2	1.08	10	<10	360	<0.5	<2	0.15	<0.5	10	81	29	2.20
CC152480		0.18	0.004	<0.2	1.05	14	<10	490	<0.5	<2	0.18	<0.5	10	72	26	2.18
CC152481		0.48	0.003	0.2	1.09	9	<10	510	0.5	<2	0.88	<0.5	9	38	26	2.06
CC152482		0.20	0.004	0.2	0.86	8	<10	370	<0.5	<2	0.54	<0.5	6	16	18	1.68
CC152483		0.26	0.002	0.2	1.43	8	<10	490	0.5	<2	0.76	<0.5	11	29	58	2.16
CC152484		0.22	0.002	<0.2	0.79	8	<10	110	<0.5	<2	0.04	<0.5	4	15	15	1.61
CC152485		0.30	0.001	0.2	1.56	8	<10	520	0.5	<2	1.17	<0.5	12	99	34	2.25
CC152486		0.16	0.001	<0.2	1.21	7	<10	230	<0.5	<2	0.22	<0.5	10	88	12	2.12
CC152487		0.16	0.001	<0.2	1.78	15	<10	350	<0.5	<2	1.50	<0.5	20	241	50	3.45
CC152488		0.24	0.003	<0.2	1.91	12	<10	480	0.5	<2	0.72	<0.5	37	131	100	6.62
CC152489		0.36	0.006	<0.2	2.08	11	<10	940	0.6	<2	0.41	<0.5	26	227	52	3.38
CC152490		0.28	0.002	<0.2	1.77	7	<10	640	0.5	<2	0.30	<0.5	19	98	24	2.86
CC152491		0.34	0.005	<0.2	1.71	82	<10	770	0.9	<2	0.45	<0.5	23	50	34	5.91
CC152492		0.44	0.002	<0.2	2.10	12	<10	360	<0.5	<2	0.19	<0.5	13	77	57	3.29
CC152493		0.22	0.001	<0.2	1.10	8	<10	250	<0.5	<2	0.05	<0.5	5	22	15	1.87
CC152494		0.22	<0.001	<0.2	1.77	7	<10	480	<0.5	<2	0.49	<0.5	12	50	12	2.41
CC152495		0.34	0.002	<0.2	2.32	12	<10	460	<0.5	<2	0.38	<0.5	25	243	32	3.79
CC152496		0.22	0.001	<0.2	2.71	3	<10	660	<0.5	<2	0.67	<0.5	38	336	127	3.91
CC152497		0.54	0.015	0.3	1.38	20	<10	580	0.5	<2	0.76	0.7	17	82	62	3.41
CC152498		0.50	0.011	0.2	2.36	3	<10	330	0.5	<2	0.88	<0.5	25	216	51	4.00
CC152499		0.22	0.003	<0.2	1.49	2	<10	150	<0.5	<2	0.71	<0.5	24	150	18	2.49
CC152500		0.18	0.009	<0.2	1.69	185	<10	750	0.5	2	1.21	<0.5	31	109	72	6.25



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CERTIFICATE OF ANALYSIS WH11149816

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	ME- ICP41
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
CC152479		<10	<1	0.06	20	0.59	342	2	0.01	48	140	11	0.01	<2	2	12
CC152480		<10	<1	0.08	20	0.58	395	2	0.01	73	270	14	<0.01	2	3	15
CC152481		<10	<1	0.10	20	0.49	356	3	0.01	51	790	14	0.02	3	3	54
CC152482		<10	<1	0.07	20	0.32	265	2	0.01	24	770	12	0.01	<2	2	38
CC152483		<10	<1	0.07	10	0.39	688	2	0.01	23	460	18	0.02	<2	3	41
CC152484		<10	<1	0.04	20	0.12	148	2	0.01	12	120	10	<0.01	<2	1	6
CC152485		<10	1	0.07	10	0.81	451	1	0.01	77	320	10	0.03	2	4	45
CC152486		<10	<1	0.04	10	0.61	274	4	0.01	38	130	9	0.01	2	2	10
CC152487		<10	1	0.05	10	1.54	510	2	0.01	121	330	8	0.05	3	6	46
CC152488		<10	1	0.06	<10	1.00	980	2	0.01	76	470	3	0.07	3	22	28
CC152489		<10	<1	0.08	10	2.08	563	1	0.02	265	240	10	0.01	2	13	23
CC152490		<10	<1	0.06	10	0.72	533	2	0.01	79	190	9	0.01	<2	4	20
CC152491		<10	<1	0.07	10	0.33	796	3	0.02	62	340	7	0.01	3	27	37
CC152492		<10	1	0.07	10	0.86	515	2	0.01	45	150	12	0.01	2	4	11
CC152493		<10	<1	0.03	10	0.19	274	1	0.01	12	150	7	<0.01	<2	2	7
CC152494		10	1	0.04	10	0.36	643	1	0.01	25	190	8	0.01	<2	4	23
CC152495		10	1	0.04	10	1.56	571	1	0.01	152	150	5	0.01	2	6	10
CC152496		<10	<1	0.04	10	2.76	1090	3	0.02	252	360	9	0.02	<2	7	18
CC152497		<10	<1	0.15	20	1.29	528	5	0.01	136	810	18	0.03	3	6	51
CC152498		<10	<1	0.11	20	3.63	724	3	0.01	242	570	20	0.05	<2	6	52
CC152499		<10	<1	0.05	10	1.16	618	2	0.03	123	160	19	0.03	<2	3	56
CC152500		<10	<1	0.07	<10	0.67	1030	3	0.01	87	410	5	0.05	8	27	35



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Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC152479		<20	0.01	<10	<10	45	<10	57
CC152480		<20	0.01	<10	<10	37	<10	81
CC152481		<20	0.01	<10	<10	40	<10	103
CC152482		<20	0.01	<10	<10	29	<10	83
CC152483		<20	0.01	<10	<10	55	<10	55
CC152484		<20	0.01	<10	<10	48	<10	42
CC152485		<20	0.02	<10	<10	61	<10	59
CC152486		<20	0.02	<10	<10	51	<10	50
CC152487		<20	0.04	<10	<10	80	<10	161
CC152488		<20	<0.01	<10	<10	96	<10	61
CC152489		<20	0.01	<10	<10	71	<10	76
CC152490		<20	0.01	<10	<10	71	<10	53
CC152491		<20	<0.01	<10	<10	63	<10	40
CC152492		<20	0.03	<10	<10	81	<10	98
CC152493		<20	0.02	<10	<10	56	<10	34
CC152494		<20	0.03	<10	<10	94	<10	45
CC152495		<20	0.05	<10	<10	83	<10	54
CC152496		<20	0.03	<10	<10	82	<10	47
CC152497		<20	0.01	<10	<10	48	<10	125
CC152498		<20	0.01	<10	<10	38	<10	66
CC152499		<20	0.03	<10	<10	36	<10	52
CC152500		<20	<0.01	<10	<10	109	<10	56

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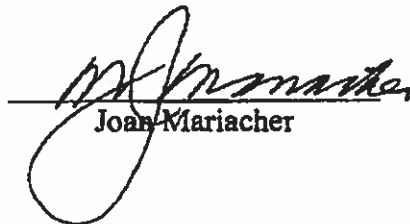
Telephone: 604-688-2568

Fax: 604-688-2578

AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the Loop 1-50 mineral
claims on claim sheets 105G/9 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

this 3rd day of February 2012.


Barrister & Solicitor

IAN J. TALBOT
Barrister & Solicitor
281 East 5th Street
North Vancouver
British Columbia
Canada V7L 1L8

Statement of Expenditures
Loop 1-50 Mineral Claims
January 26, 2012

Labour

R. Gibbons (field assistant) July 2011 – 5 days @ \$408/day	\$ 2,284.80
D. Jones (field assistant) July 2011 – 6 days @ \$360/day	2,419.20
C. Campbell (field assistant) July 2011 – 10 days @ \$344/day	3,852.80
J. Chila (field assistant) July 2011 – 10 days @ \$344/day	3,852.80
R. Merki (field assistant) July 2011 – 1 day @ \$344/day	<u>385.28</u>
	12,794.88

Expenses

Field room and board – 32 days @ \$125/day	4,480.00
Outbound Aviation	16,243.04
Inconnu Lodge	6,693.75
ALS Chemex	<u>19,658.29</u>
	47,075.08

Total	<u>\$59,869.96</u>
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