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ASSESSMENT REPORT

describing

SOIL SAMPLING AND PROSPECTING

at the

JPR PROPERTY

JPR 1-80 YD05501-YD05580

NTS 115H/04

Latitude 61°10'N; Longitude 137°53'W

located in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

ROCKHAVEN RESOURCES LTD.

by

Dan Gregory, B.Sc. Geology, GIT
February 2010

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INTRODUCTION

The JPR property covers an orogenic gold target located 50 km northwest of Haines Junction in Yukon Territory. It is owned 100% by Rockhaven Resources Ltd.

This report describes work conducted between August 29 and September 4, 2009 by Archer, Cathro & Associates (1981) Limited on behalf of Rockhaven. The work consisted of prospecting and geochemical sampling. It was completed by a crew of three people from a helicopter supported camp on the property. The author participated in the work and compiled data collected in the field. Appendix I contains the author's Statement of Qualifications.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The JPR property is located in southwestern Yukon at latitude 61°10' north and longitude 137°53' west on NTS mapsheet 115 H/04 (Figure 1). The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro which holds them in trust for Rockhaven. Claim registration data are listed below while locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
JPR 1-80	YD05501-YD05580	June 22, 2010

* Expiry date does not include 2009 work that has not been filed for assessment credit.

The JPR claims lie approximately 160 km west-northwest of Whitehorse and 50 km northwest of Haines Junction. The closest road provides access to a placer mine. This dirt road extends from the Alaska Highway to the southern edge of the property. In 2009, the property was accessed by a Bell 206 Jet Ranger helicopter operated by Transnorth Helicopters from its base in Haines Junction.

HISTORY

The JPR property is situated in the headwaters of Ruby and Twelfth of July Creeks, both known placer gold creeks. Placer gold is also documented on: Granite Creek, south of the property; Fourth of July Creek, west of the property; and Gladstone Creek, northwest of the property. Creeks in the area have been explored and mined intermittently since the early 1900s. Gladstone Creek is the most productive in recent times, with reported production of 25,690 ounces of gold between 1978 and 2003 (LeBarge, 1990, Placer Mining Section 1994 and Mining Inspection Division, 1998). Complete production figures are not available for any of the creeks.

In 1985, the Geological Survey of Canada (GSC) reported anomalous gold and arsenic values from several drainages in the Ruby Range following a stream sediment survey of the Aishihik map sheet (Hornbrook and Friske, 1985).

The first reported hard rock exploration was done in 1994 when the area was staked as the Hope claims by J.P. Ross. Between 1994 and 1996, Ross took a total of 130 rock specimen samples

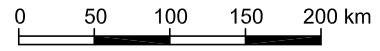
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FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

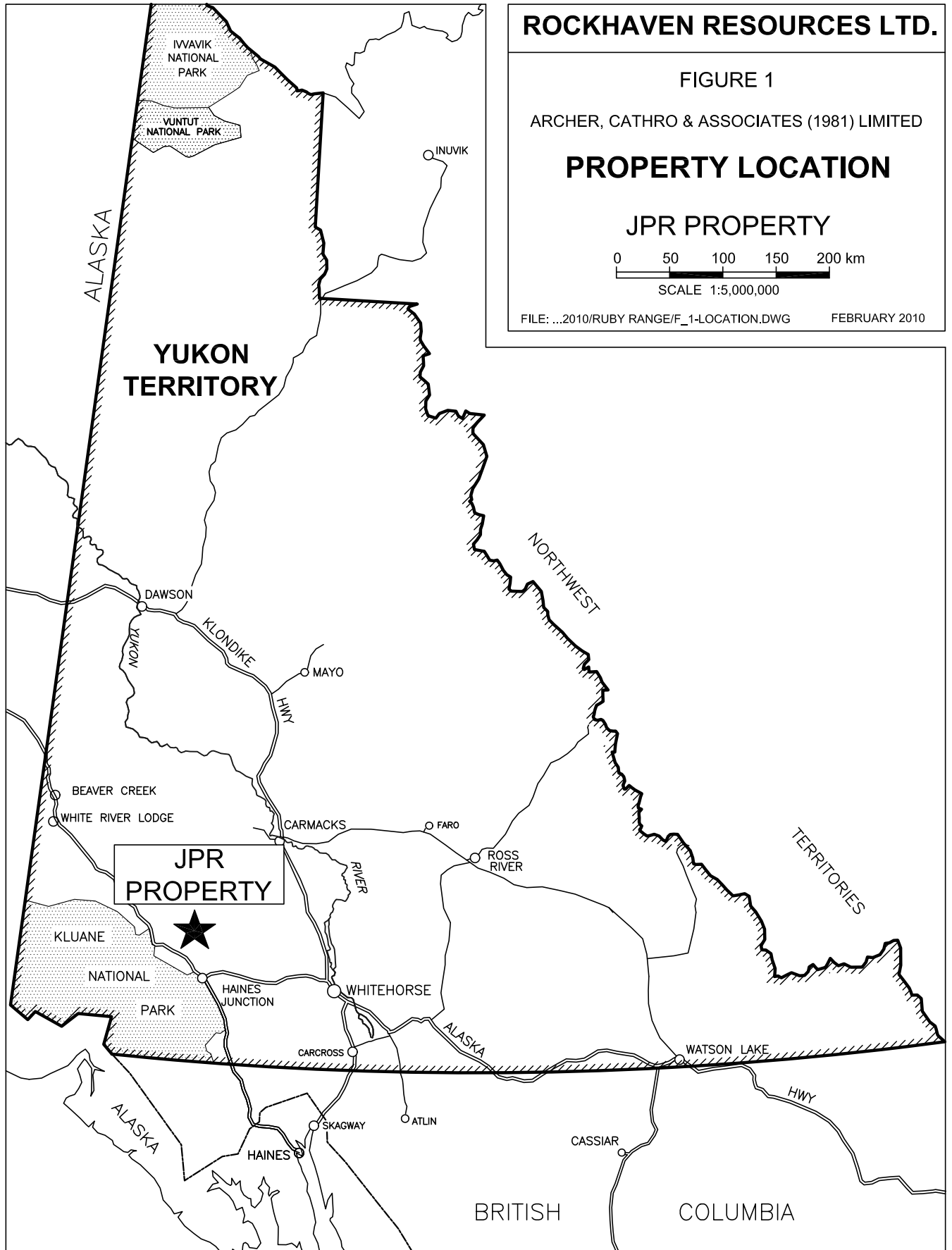
JPR PROPERTY

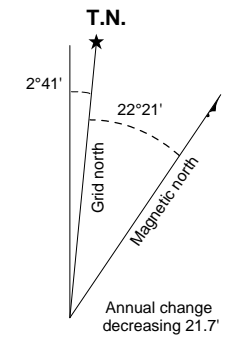
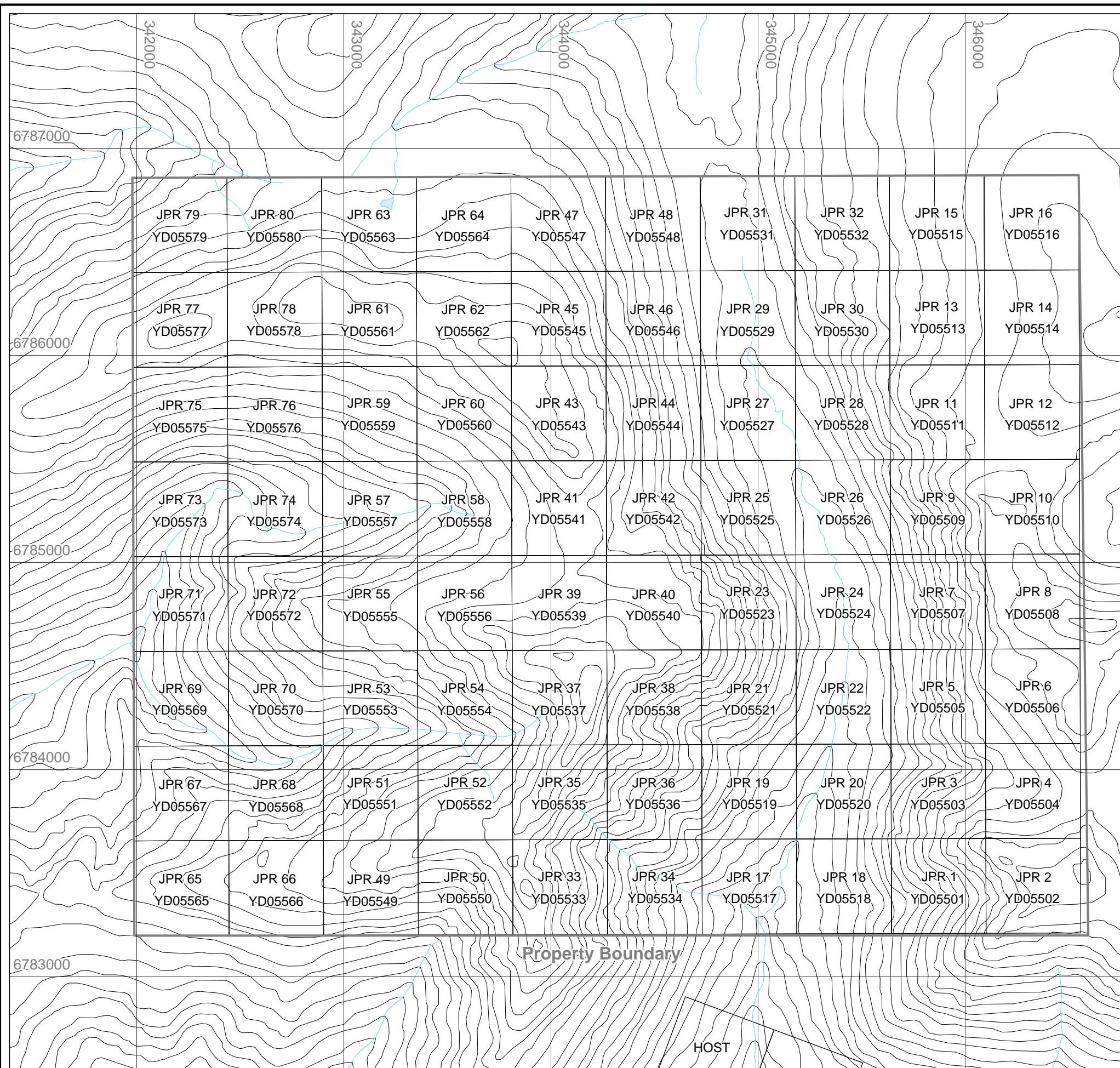


SCALE 1:5,000,000

FILE: ...2010/RUBY RANGE/F_1-LOCATION.DWG

FEBRUARY 2010





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FIGURE 2
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM LOCATIONS
 JPR PROPERTY



UTM Zone 8, NAD83, NTS sheet 115H/04

and 29 silt samples (Ross, 1995 and Ross 1996). Despite some strongly anomalous results, no further work was completed on the property and the claims were allowed to lapse.

GEOMORPHOLOGY

The JPR property straddles two north trending ridges and adjacent valleys and cirques. The property is drained by Ruby and Twelfth of July Creeks, which flow into the Jarvis River and ultimately into the Pacific Ocean via the Alsek River.

Topography is moderate to steep, with elevations ranging from 1400 to 2100 m above sea level. Vegetation comprises grass and lichen with patches of arctic black birch at lower elevations. Outcrop is minor and is mostly restricted to ridge tops and actively eroding creek cuts.

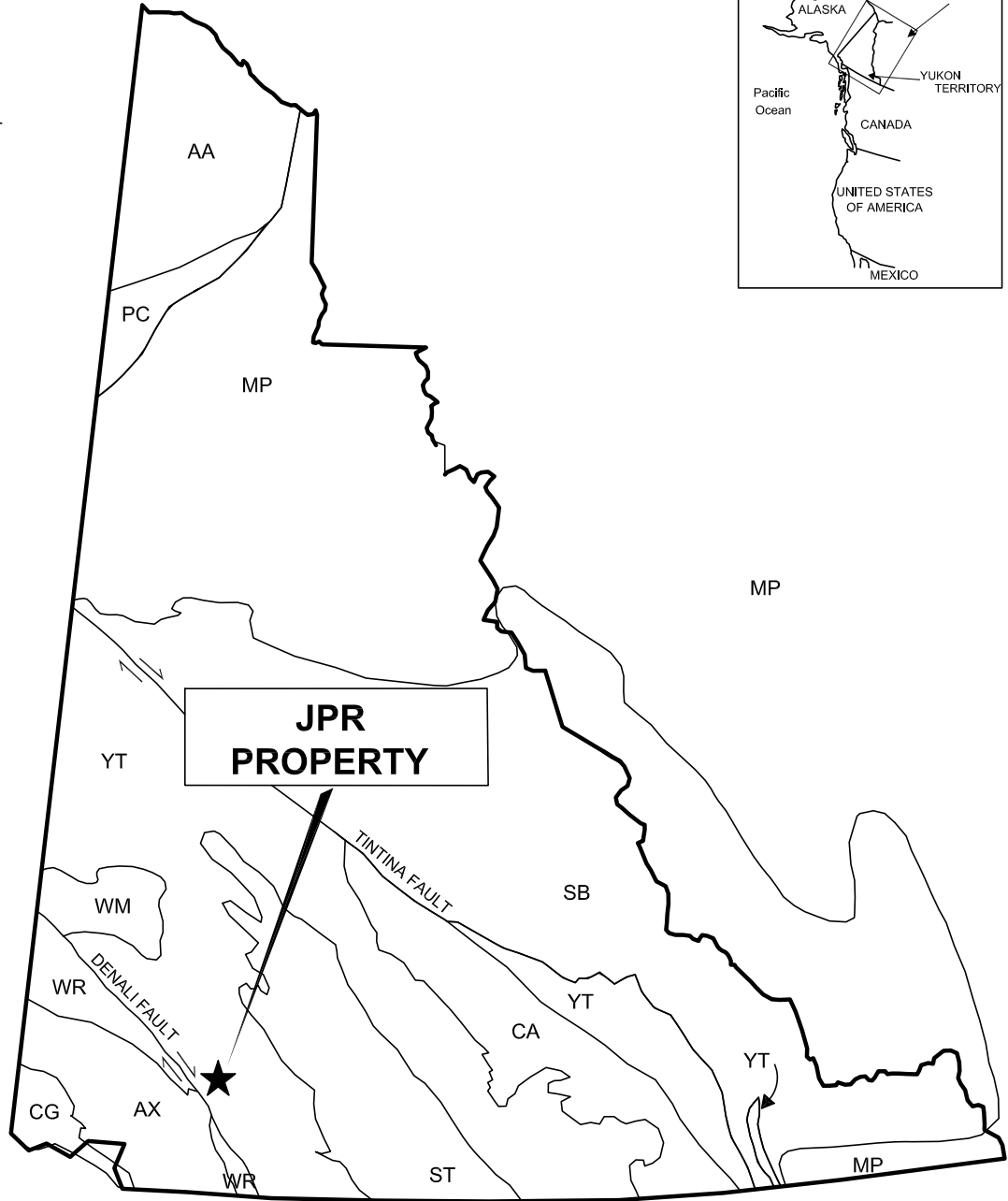
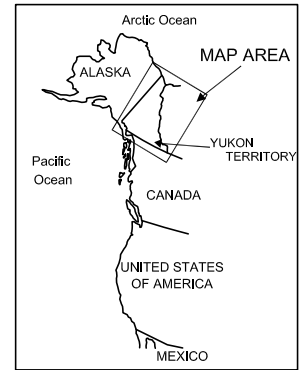
REGIONAL GEOLOGY

The JPR property lies within the Taku sub-terrane of the Yukon-Tanana Terrane. This sequence contains metamorphic rocks that were formerly called the Kluane Assemblage. These metamorphic rocks are bounded to the southwest by the Denali Fault and to the northeast by a batholith belonging to the Ruby Range Plutonic Suite. Northeast of the batholith are metamorphic rocks of the Aishihik Assemblage, which belong to the Yukon-Tanana Terrane. Southwest of the Denali Fault are Paleozoic sedimentary and volcanic rocks of the Alexander and Wrangellia Terranes (Figure 3).

The regional geology was mapped at 1:250,000 scale by the GSC in the early 1970s (Tempelman-Kluit, 1974). More recent studies in the area have focussed on the metamorphic and intrusive history of the Taku sub-terrane. Two main lithological packages have been outlined in the vicinity of the property, the metamorphic assemblage and the Ruby Range Plutonic Suite as described below.

Metamorphic Assemblage (former Kluane Assemblage) comprises two relatively homogeneous units (biotite schist and muscovite-chlorite schist) separated by thrust faults. Both are graphitic, exhibit coarse schistosity and contain abundant blue-grey, sieve textured porphyroblasts of graphite filled andesine (Erdmer, 1991). Protoliths for the units are believed to be Mesozoic flysch derived from a westerly source (Erdmer and Mortensen, 1993). Biotite schist is typically dark brown weathering with a purple hue, and contains garnet, staurolite and lesser tourmaline. Locally lenses of marble, less than 100 m in length, occur within this schist.

Ruby Range Plutonic Suite includes the Ruby Range Batholith along the northeast side of the metamorphic assemblage and smaller satellite intrusions within it. This plutonic suite primarily consists of grey to light brown, medium to coarse grained, non-foliated biotite-hornblende granodiorite. The batholith appears to have been emplaced as a northeast dipping sheet parallel to the orientation of the regional metamorphic fabric. It is believed to be analogous to the Great Tonalite Sill situated 400 km to the south in the Alaska Panhandle. Age constraints of crystallization are reportedly between 50 and 57 Ma, which suggest the batholith was a synmetamorphic pluton intruded during the latter stage of the terminal high grade metamorphic event in the region (Mortensen and Erdmer, 1992).



ANCESTRAL NORTH AMERICA

- MP Mackenzie Platform
- SB Selwyn Basin

TERRANES
Displaced Continental Margin

- AA Arctic Alaska
- CA Casslar
- PC Porcupine

Pericratonic Terranes

- YT Yukon-Tanana / Slide Mountain

ACCRETED TERRANES

- ST Stikinia / Cache Creek
- AX Alexander
- WR Wrangellia
- CG Chugach
- WM Windy McKinley

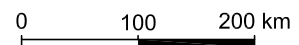
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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING

JPR PROPERTY



PROPERTY GEOLOGY

No property scale geological mapping has been completed on the property. The geology map (Figure 4) is based on regional mapping done and compiled by the Geological Survey of Canada (Gordy and Makepeace, 2000) and observations made during prospecting traverses in 2009.

The property is mostly underlain by dark grey quartz-biotite schist. The unit occasionally contains thin bands of dolomite, which are occasionally altered to tremolite skarn. In several places the schist is intruded by dykes of coarse grained diorite or granodiorite. The granodiorite often contains abundant rounded plagioclase xenocrysts. The dykes are most common on the north side of the property.

GEOCHEMISTRY

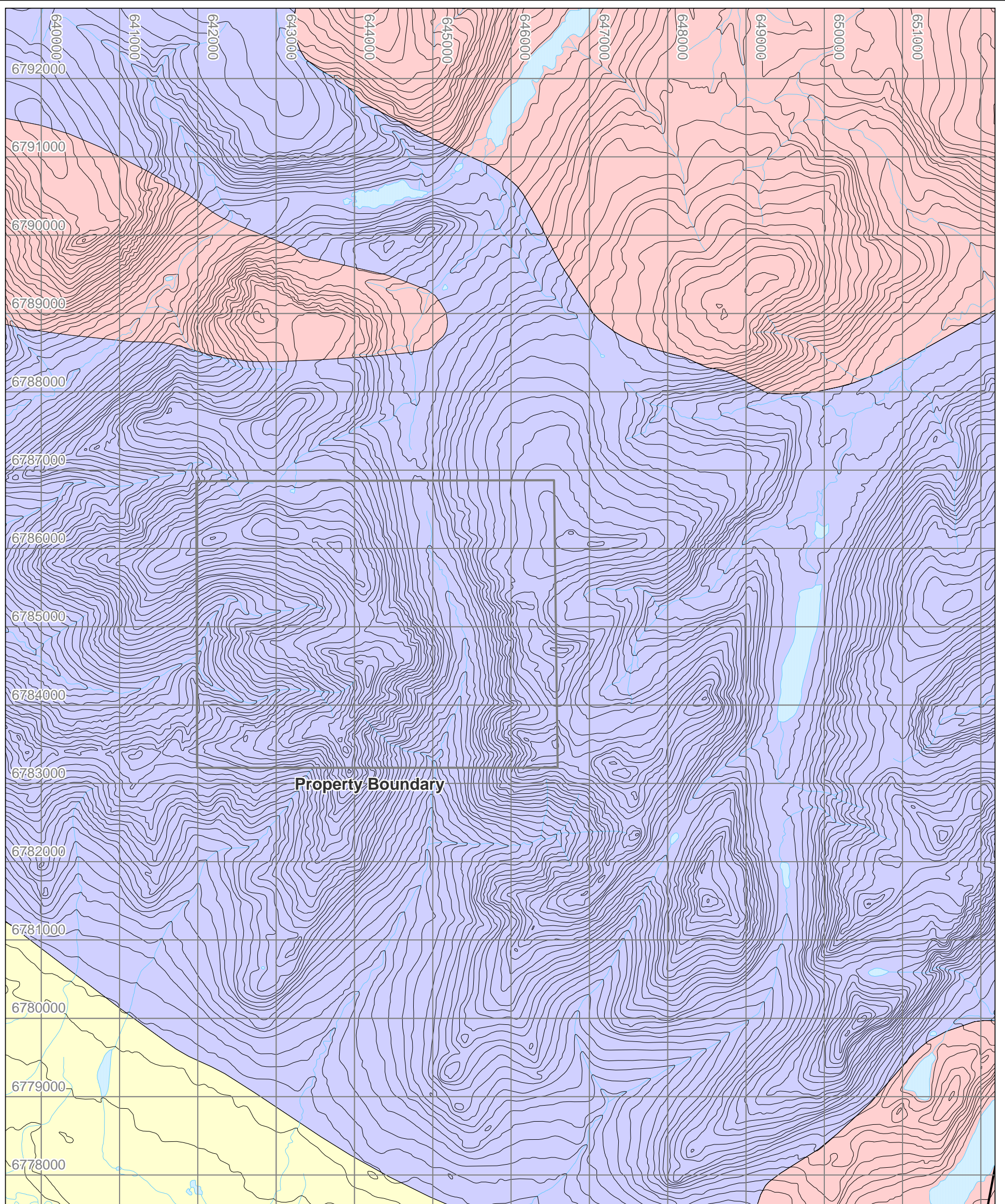
Soil and Silt Sampling

The drainages in the vicinity of the Gladstone property were silt sampled from 1994 to 1996 by J.P. Ross. This sampling mostly returned values between 2.0 and 100 ppb gold but included five samples over 200 ppb gold (296, 382, 440, 458 and 854). The majority of strongly anomalous silt samples were taken from a tributary of Twelfth of July Creek in the southwestern part of the claim block. Ross's sampling also identified three very anomalous samples in the area south of the claims (2931, 3138 and 5848 ppb); however, this area is covered by claims held by a local placer miner.

In 2009, a total of 148 soil samples and 147 silt samples were collected on and immediately adjacent to the property. Soil samples were taken at 50 m spacings along contour controlled sample lines, while silt samples were taken at 50 m spacings along major drainages and their tributaries. Sample handling and analytical procedures used during the sampling programs can be found in Appendix II, while Certificates of Analysis for 2009 samples are in Appendix III. Sample locations for the 2009 samples are shown on Figure 5 and gold and arsenic results are thematically illustrated on Figures 6 and 7.

Gold results from 2009 silt sampling generally returned lower values than historic sampling, but did include a few high values ranging up to 645 ppb. The three strongly anomalous soil samples taken on the property (379, 346 and 206 ppb Au) were all collected within the historically most anomalous drainage on the property. The highest value came from a sample collected near the western edge of the claim block in the vicinity of several east-northeast trending linears. The highest arsenic values also come from this area. The other two strongly anomalous gold values occur near the top of a ridge in the center of the property, in the vicinity of several north-south trending linears.

In general arsenic values are subdued, but they do correlate well with gold in soil. This correlation is not present in silt results.

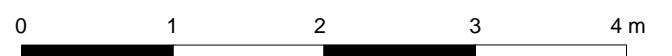


Property Boundary

- Quaternary
- Ruby Range Plutonic Suite
- Metamorphic Assemblage

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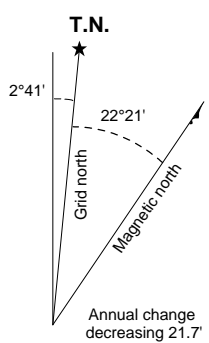
FIGURE 4
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GEOLOGY
 JPR PROPERTY

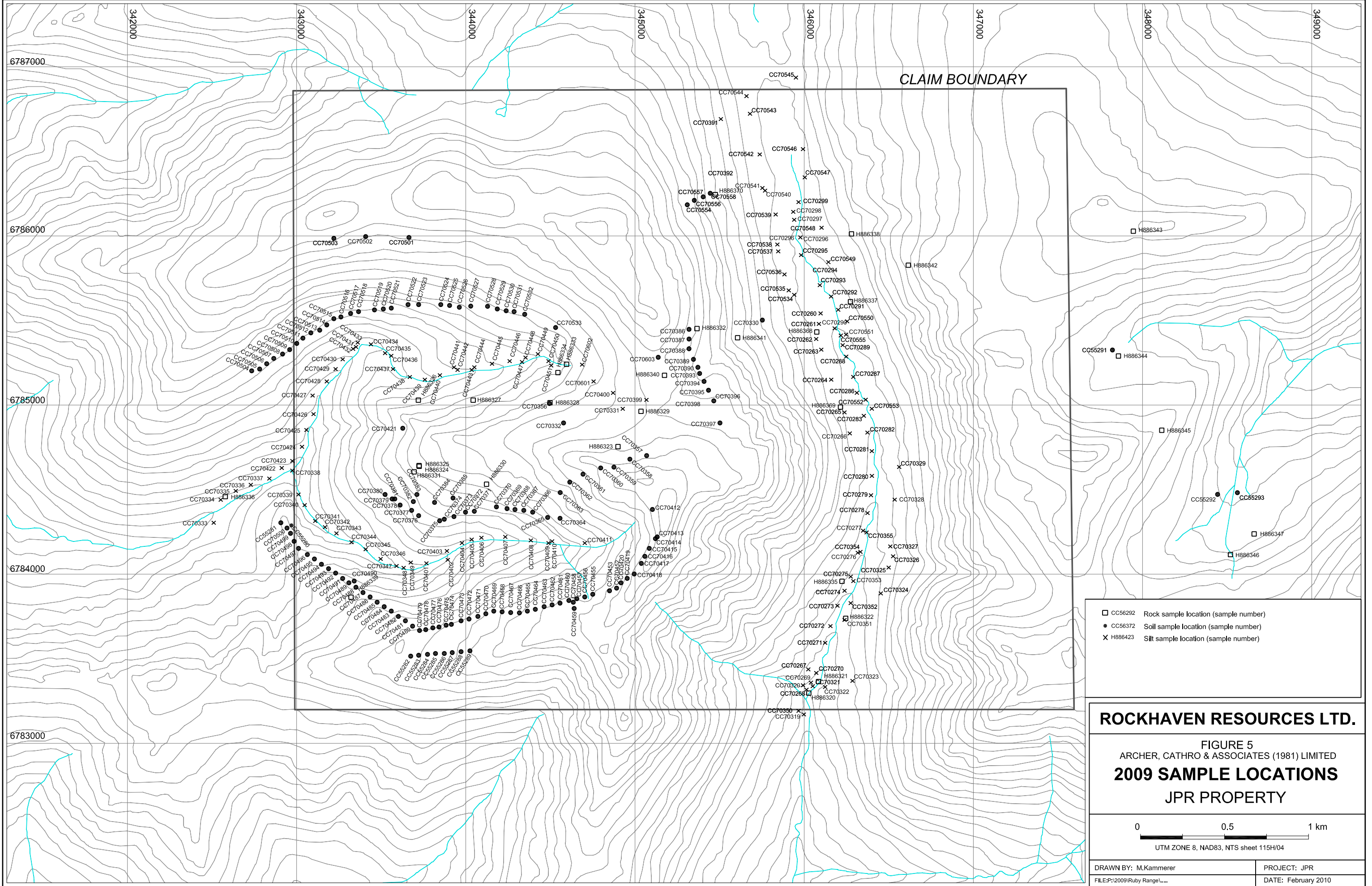


UTM Zone 8, NAD83, NTS sheet 115H/04

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DATE: FEBRUARY 2010





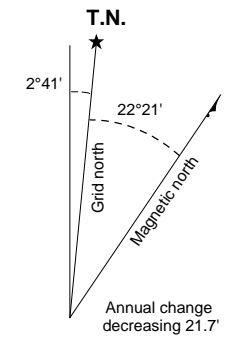
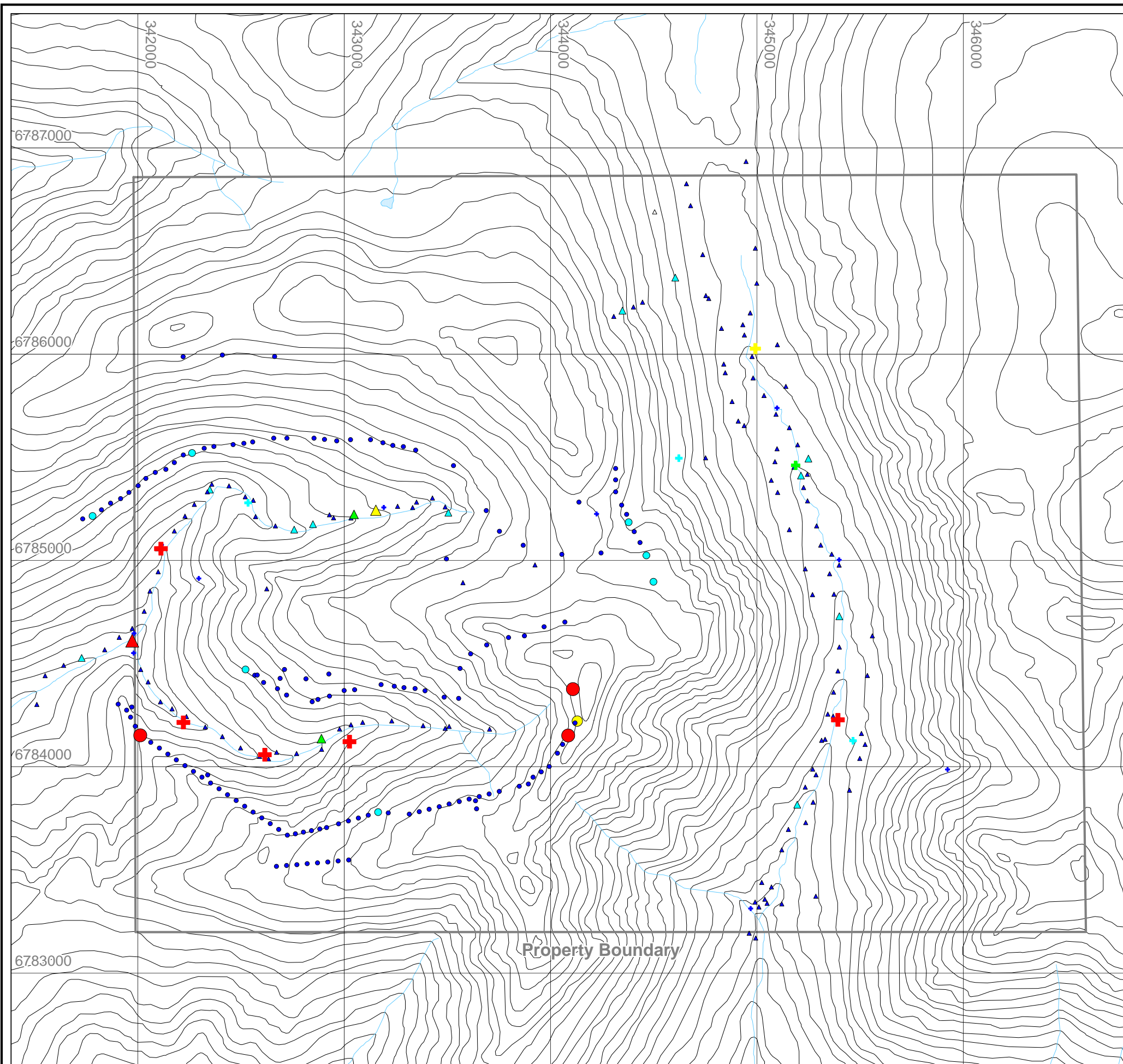
□ CC56292	Rock sample location (sample number)
● CC56372	Soil sample location (sample number)
× H886423	Silt sample location (sample number)

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FIGURE 5
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
2009 SAMPLE LOCATIONS
 JPR PROPERTY

0 0,5 1 km
 UTM ZONE 8, NAD83, NTS sheet 115H/04

DRAWN BY: M.Kammerer	PROJECT: JPR
FILE:P:\2009\Ruby Range\...	DATE: February 2010



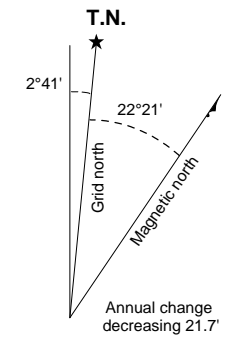
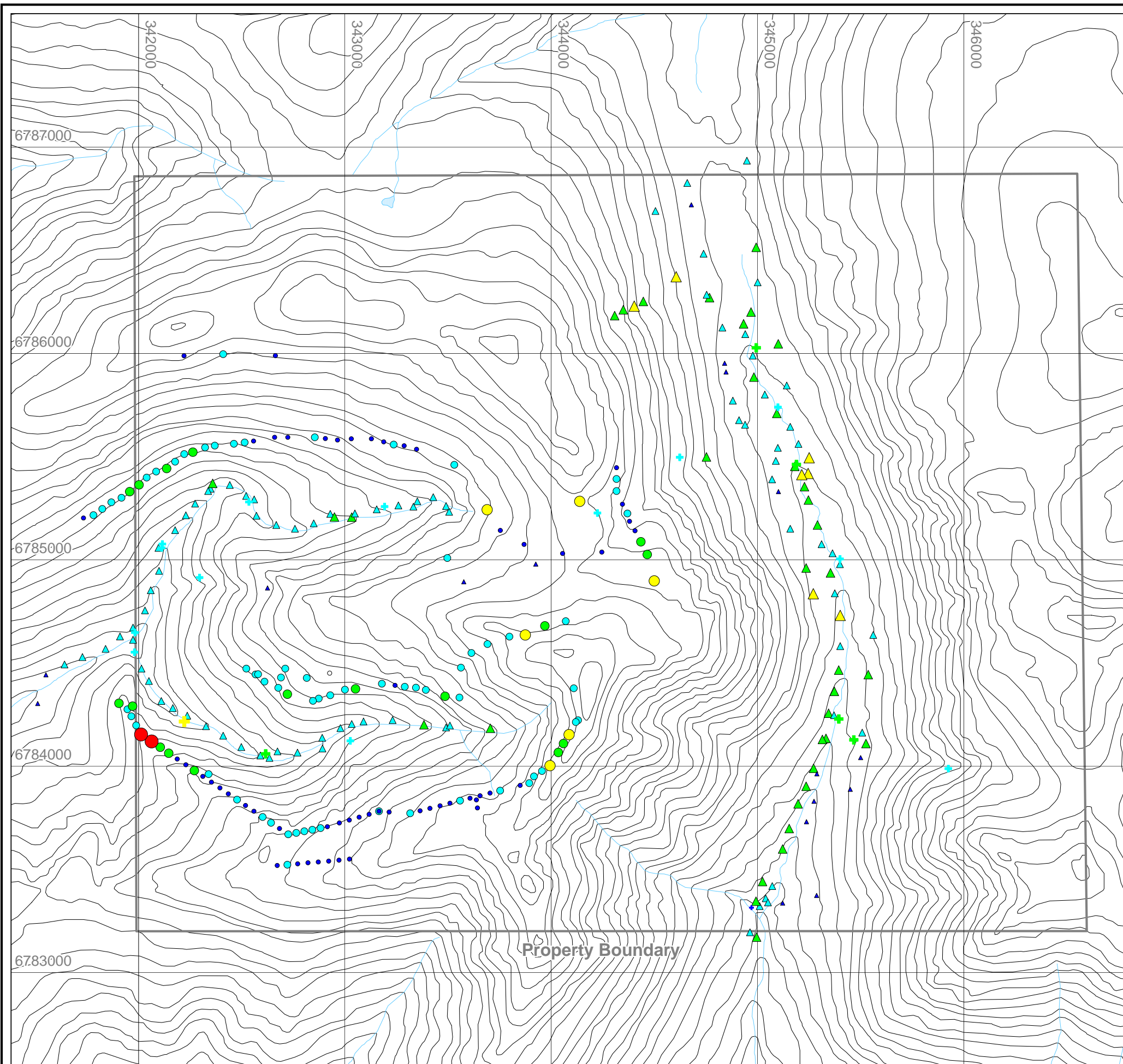
- | | |
|---|---|
| Gold in silt (ppb)
Historic samples | Gold in silt (ppb)
2009 samples |
| <ul style="list-style-type: none"> ⊕ ≥200 < 854 ⊕ ≥100 < 200 ⊕ ≥50 < 100 ⊕ ≥20 < 50 ⊕ ≥0 < 20 | <ul style="list-style-type: none"> ▲ ≥200 < 645 ▲ ≥100 < 200 ▲ ≥50 < 100 ▲ ≥20 < 50 ▲ ≥0 < 20 |
| Gold in soil (ppb)
2009 samples | |
| <ul style="list-style-type: none"> ● ≥200 < 379 ● ≥100 < 200 ● ≥50 < 100 ● ≥20 < 50 ● ≥0 < 20 | |

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FIGURE 6
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD SILT AND SOIL GEOCHEMISTRY
 JPR PROPERTY



UTM Zone 8, NAD83, NTS sheet 115H/04



Arsenic in silt (ppm)		Arsenic in silt (ppm)	
Historic sample		2009 samples	
+	≥100 < 135	▲	≥100 < 187
+	≥50 < 100	▲	≥50 < 100
+	≥20 < 50	▲	≥20 < 50
+	≥0 < 20	▲	≥0 < 20

Arsenic in soil (ppm)	
2009 samples	
●	≥200 < 953
●	≥100 < 200
●	≥50 < 100
●	≥20 < 50
●	≥0 < 20

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FIGURE 7
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARSENIC SILT AND SOIL GEOCHEMISTRY
 JPR PROPERTY

0 400 800 1200 1600 2000 m

UTM Zone 8, NAD83, NTS sheet 115H/04

FILE:./2009/RUBYRANGE/JPR/FIGURES.WOR DATE: FEBRUARY 2010

Rock Sampling

Forty-two rock samples were taken on prospecting traverses in 2009 (Figure 5). Sample handling and analytical procedures can be found in Appendix II, Certificates of Analysis are in Appendix III, Rock Sample Descriptions are in Appendix IV and a thematic map showing gold in rock results is on Figure 8. Historically the best samples (691, 971 and 1619 ppb Au) were found near a saddle on the main north-south trending ridge; these samples were described as schist with vuggy quartz stringer veins (Ross 1996). The only anomalous rock sample collected in 2009 was from an aplite dyke that returned 1840 ppb gold. This sample was taken 1000 m southwest from the saddle. The rest of the rock samples yielded subdued values for gold and its pathfinder elements. No rock samples were collected from the linears in the vicinity of the most anomalous soil samples.

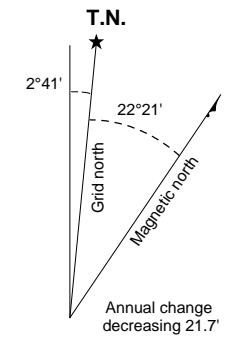
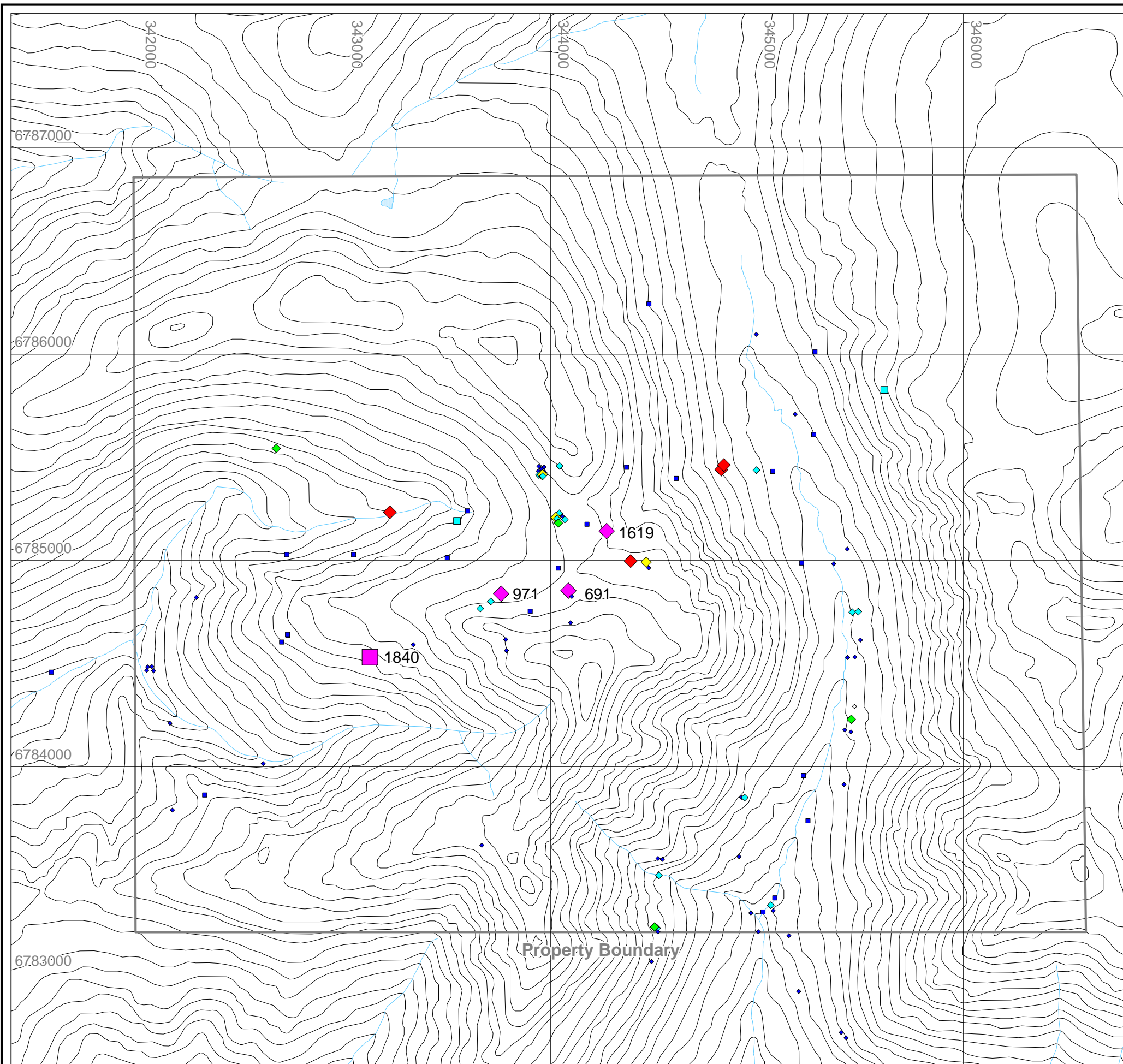
DISCUSSION AND CONCLUSIONS

The 2009 field program successfully confirmed the previous gold anomalies on the JPR property and discovered high gold-in-soil near linear features that drain into the most geochemically anomalous creek on the property. Future work is warranted and should include grid soil sampling, geological mapping and detailed prospecting in the vicinity of the most anomalous soil and rock samples. Hand trenches should also be dug across the linears in the vicinity of the anomalous soil samples. Addition claims should probably be staked along the west side of the property.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Dan Gregory, B.Sc. Geology, GIT



Gold (ppb) Historic samples	Gold (ppb) 2009 samples
◆ ≥500 < 1619	◆ ≥500 < 1840
◆ ≥200 < 500	◆ ≥200 < 500
◆ ≥100 < 200	◆ ≥100 < 200
◆ ≥50 < 100	◆ ≥50 < 100
◆ ≥20 < 50	◆ ≥20 < 50
◆ ≥0 < 20	◆ ≥0 < 20

Samples greater than 500 ppb are labeled with their assay result

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FIGURE 8
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD ROCK GEOCHEMISTRY
 JPR PROPERTY



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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Daniel Gregory, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Richmond, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 2007 with a B.Sc. (Hons.) in Geology.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 153805).
4. I have personally participated in the fieldwork reported herein.

Daniel Gregory, B.Sc., GIT

APPENDIX II
SAMPLE HANDLING AND ANALYTICAL PROCEDURES

ASSAY METHODS FOR GEOCHEMICAL SAMPLING

1995 and 1996 silt and rock samples were sent to Northern Analytical Laboratories where they were tested for gold and International Plasma Laboratories where analyzed for 30 elements using the inductively coupled plasma (ICP) technique.

All 2009 silt and soil samples were located by means of compass and hip-chain surveys with frequent checks using handheld GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m thick wooden laths that were driven into the ground. Soil samples were collected from 40 to 60 cm deep holes dug by hand auger. They were placed into individually pre-numbered Kraft paper bags.

The 2009 silt and soil samples were sent to ALS Chemex in North Vancouver, B.C. where they were dried, screened to -180 microns, dissolved in an aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). Samples were also analyzed for gold using the atomic absorption technique (Au-AA21).

The 2009 rock samples were sent to ALS Chemex in North Vancouver, B.C. where they were dried and fine crushed to better than 70% passing 2 mm. A 250 g split was then pulverized to better than 85% passing 75 micron. A portion of this material was digested in aqua regia and analysed for 35 elements by inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). Samples were also analyzed for gold using the atomic absorption technique (Au-AA21).

APPENDIX III
CERTIFICATES OF ANALYSIS



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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LIMITED
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VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 8-OCT-2009
Account: ROCKHA

CERTIFICATE VA09106141

Project: JPR

P.O. No.:

This report is for 148 Soil samples submitted to our lab in Vancouver, BC, Canada on 22-SEP-2009.

The following have access to data associated with this certificate:

JOAN MARIACHER

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

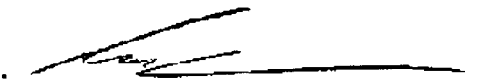
ANALYTICAL PROCEDURES

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: ROCKHAVEN RESOURCES LTD.
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
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



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Project: JPR

Page: 2 - A
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 8-OCT-2009
Account: ROCKHA

CERTIFICATE OF ANALYSIS VA09106141

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
CC70428		0.30	<0.2	2.06	34	<10	130	<0.5	<2	0.37	<0.5	16	58	53	3.61	10
CC70429		0.36	<0.2	1.85	35	<10	110	<0.5	<2	0.39	<0.5	15	53	45	3.43	10
CC70430		0.34	<0.2	1.90	35	<10	120	<0.5	<2	0.36	<0.5	15	55	47	3.43	10
CC70431		0.32	<0.2	1.97	38	<10	120	<0.5	<2	0.34	<0.5	16	57	50	3.43	10
CC70432		0.20	0.2	2.09	28	<10	130	<0.5	<2	0.42	<0.5	17	56	70	3.68	<10
CC70433		0.44	<0.2	2.30	56	<10	150	<0.5	<2	0.41	<0.5	26	60	86	4.05	10
CC70434		0.40	<0.2	1.95	33	<10	120	<0.5	<2	0.45	<0.5	15	56	44	3.49	10
CC70435		0.24	<0.2	2.07	39	<10	130	<0.5	<2	0.34	<0.5	16	58	50	3.56	10
CC70436		0.28	0.2	2.38	29	<10	170	<0.5	<2	0.27	<0.5	14	61	33	3.83	10
CC70437		0.38	<0.2	1.92	39	<10	110	<0.5	<2	0.36	<0.5	15	55	45	3.44	10
CC70438		0.30	<0.2	1.93	43	<10	110	<0.5	<2	0.33	<0.5	15	55	48	3.38	10
CC70439		0.44	<0.2	1.77	42	<10	100	<0.5	<2	0.35	<0.5	14	52	44	3.31	10
CC70440		0.26	<0.2	1.98	46	<10	110	<0.5	<2	0.33	<0.5	16	56	49	3.53	10
CC70441		0.32	0.2	2.11	30	<10	140	<0.5	<2	0.34	<0.5	15	57	42	3.50	10
CC70442		0.34	<0.2	2.35	64	<10	110	<0.5	<2	0.30	<0.5	19	63	63	3.93	10
CC70443		0.40	<0.2	2.18	82	<10	90	<0.5	<2	0.31	<0.5	19	56	64	3.85	<10
CC70444		0.44	<0.2	1.82	35	<10	120	<0.5	<2	0.38	<0.5	14	56	41	3.43	10
CC70445		0.32	<0.2	2.05	41	<10	150	<0.5	<2	0.38	<0.5	16	60	44	3.53	10
CC70446		0.38	<0.2	1.86	33	<10	130	<0.5	<2	0.36	<0.5	13	55	39	3.30	<10
CC70447		0.40	<0.2	1.70	29	<10	80	<0.5	<2	0.37	<0.5	19	51	53	3.34	<10
CC70448		0.32	<0.2	2.06	38	<10	130	<0.5	<2	0.34	<0.5	16	61	46	3.53	10
CC70449		0.36	<0.2	1.78	28	<10	160	<0.5	<2	0.33	<0.5	12	51	35	3.03	10
CC70450		0.16	<0.2	2.52	29	<10	190	<0.5	<2	0.35	<0.5	20	69	56	3.97	10
CC70451		0.30	<0.2	2.21	41	<10	130	<0.5	<2	0.38	<0.5	18	67	52	3.79	10
CC70452		0.28	<0.2	2.15	112	<10	90	<0.5	<2	0.29	<0.5	19	54	73	4.07	10
CC70453		0.30	<0.2	2.33	53	<10	150	0.5	<2	0.45	<0.5	35	81	83	4.60	10
CC70454		0.24	0.2	2.20	64	<10	130	<0.5	<2	0.37	<0.5	29	57	76	4.20	10
CC70455		0.28	<0.2	2.32	117	<10	110	<0.5	<2	0.37	<0.5	20	58	69	4.16	10
CC70456		0.26	0.2	2.29	45	<10	110	<0.5	2	0.36	<0.5	17	60	53	4.07	10
CC70457		0.30	0.2	2.30	39	<10	140	<0.5	<2	0.39	<0.5	15	61	50	4.01	10
CC70458		0.34	<0.2	1.97	26	<10	100	<0.5	<2	0.35	<0.5	13	59	42	3.46	10
CC70459		0.28	<0.2	1.66	12	<10	80	<0.5	<2	0.32	<0.5	12	56	37	2.98	<10
CC70460		0.30	0.2	1.82	28	<10	100	<0.5	<2	0.38	<0.5	14	49	47	3.57	10
CC70461		0.26	<0.2	2.11	28	<10	80	<0.5	2	0.23	<0.5	14	47	45	3.52	10
CC70462		0.26	<0.2	1.46	9	<10	90	<0.5	<2	0.36	<0.5	11	37	37	3.06	10
CC70463		0.32	<0.2	2.02	19	<10	90	<0.5	<2	0.30	<0.5	14	53	45	3.66	10
CC70464		0.32	<0.2	2.29	16	<10	100	<0.5	<2	0.30	<0.5	19	60	64	4.13	10
CC70465		0.24	<0.2	1.52	13	<10	80	<0.5	<2	0.36	<0.5	10	39	39	3.05	<10
CC70466		0.24	<0.2	2.20	15	<10	100	<0.5	<2	0.31	<0.5	17	59	51	3.96	10
CC70467		0.32	0.2	2.32	22	<10	70	<0.5	<2	0.27	<0.5	19	60	69	4.25	10



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Project: JPR

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CERTIFICATE OF ANALYSIS VA09106141

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
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
CC70428		<1	0.30	10	1.02	428	1	0.02	44	1050	5	0.03	<2	6	24	<20
CC70429		<1	0.26	10	0.91	415	<1	0.02	41	1280	3	0.02	<2	5	24	<20
CC70430		<1	0.27	10	0.93	415	<1	0.02	40	1170	4	0.03	<2	6	22	<20
CC70431		<1	0.27	10	0.96	430	<1	0.02	42	1060	5	0.03	<2	6	24	<20
CC70432		<1	0.39	10	1.06	430	<1	0.02	61	1120	8	0.06	<2	6	25	<20
CC70433		<1	0.37	10	1.08	576	1	0.02	75	1130	6	0.07	<2	7	28	<20
CC70434		<1	0.28	10	0.96	435	<1	0.01	41	1580	4	0.03	<2	6	28	<20
CC70435		<1	0.26	10	0.99	445	<1	0.01	42	1010	5	0.03	<2	6	23	<20
CC70436		<1	0.24	10	1.02	441	1	0.02	32	820	6	0.05	<2	5	20	<20
CC70437		<1	0.25	10	0.93	425	<1	0.01	41	1100	4	0.04	<2	6	24	<20
CC70438		<1	0.24	10	0.95	429	<1	0.01	41	1020	5	0.04	<2	5	23	<20
CC70439		<1	0.22	10	0.86	426	1	0.01	37	1130	4	0.04	<2	5	23	<20
CC70440		<1	0.23	10	0.95	432	1	0.01	41	1010	5	0.03	<2	6	23	<20
CC70441		<1	0.22	10	0.96	471	<1	0.01	38	960	5	0.04	<2	5	24	<20
CC70442		<1	0.25	10	1.13	517	<1	0.02	48	840	5	0.03	<2	6	23	<20
CC70443		<1	0.21	10	1.05	514	<1	0.01	49	990	6	0.03	<2	6	24	<20
CC70444		<1	0.25	10	0.86	423	<1	0.01	39	1300	4	0.03	<2	6	24	<20
CC70445		<1	0.28	10	0.96	475	1	0.02	43	1210	4	0.04	<2	6	26	<20
CC70446		<1	0.26	10	0.88	394	1	0.01	39	1160	4	0.03	<2	6	22	<20
CC70447		<1	0.18	10	0.85	475	<1	0.01	51	1130	4	0.03	<2	5	25	<20
CC70448		<1	0.28	10	0.97	441	<1	0.01	44	1000	5	0.03	<2	6	24	<20
CC70449		<1	0.27	10	0.83	360	1	0.01	33	870	4	0.04	<2	6	22	<20
CC70450		<1	0.28	10	1.14	595	<1	0.02	47	990	6	0.05	<2	7	30	<20
CC70451		<1	0.28	10	1.06	476	<1	0.01	52	1220	5	0.03	<2	7	26	<20
CC70452		<1	0.19	10	0.97	573	1	0.01	44	830	7	0.06	<2	5	25	<20
CC70453		<1	0.36	10	1.37	876	<1	0.02	72	1160	8	0.03	<2	7	32	<20
CC70454		<1	0.32	20	1.06	690	1	0.02	60	1140	7	0.05	<2	5	30	<20
CC70455		<1	0.24	10	1.03	610	1	0.02	52	1130	6	0.06	<2	5	32	<20
CC70456		1	0.25	10	1.04	556	<1	0.02	41	1080	7	0.07	<2	5	32	<20
CC70457		<1	0.31	10	1.06	525	1	0.02	38	1130	6	0.08	<2	5	33	<20
CC70458		<1	0.33	10	1.02	420	<1	0.01	38	920	5	0.02	<2	5	28	<20
CC70459		<1	0.12	10	0.86	429	<1	0.01	29	980	5	0.04	<2	4	24	<20
CC70460		<1	0.13	10	0.82	519	1	0.02	28	1220	8	0.09	<2	3	30	<20
CC70461		<1	0.14	10	0.89	416	<1	0.01	37	770	8	0.05	<2	4	28	<20
CC70462		<1	0.08	10	0.60	416	1	0.02	21	1160	5	0.10	<2	2	30	<20
CC70463		<1	0.16	10	0.90	506	1	0.01	35	900	7	0.06	<2	4	23	<20
CC70464		<1	0.18	20	1.02	554	1	0.02	50	960	7	0.07	<2	5	29	<20
CC70465		<1	0.08	10	0.64	381	1	0.02	23	1250	6	0.10	<2	2	30	<20
CC70466		<1	0.16	10	0.97	556	1	0.02	41	1090	6	0.09	<2	4	28	<20
CC70467		<1	0.19	20	1.01	521	1	0.01	54	1070	10	0.05	<2	5	25	<20



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CERTIFICATE OF ANALYSIS VA09106141

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
CC70428		0.11	<10	<10	82	<10	78	0.010
CC70429		0.10	<10	<10	76	<10	70	NSS
CC70430		0.10	<10	<10	77	<10	70	0.004
CC70431		0.10	<10	<10	79	<10	74	0.020
CC70432		0.13	<10	<10	84	<10	91	0.006
CC70433		0.12	<10	<10	89	<10	108	0.003
CC70434		0.10	<10	<10	78	<10	70	0.007
CC70435		0.11	<10	<10	83	<10	75	0.002
CC70436		0.12	<10	<10	97	<10	58	0.005
CC70437		0.11	<10	<10	77	<10	70	0.019
CC70438		0.10	<10	<10	76	<10	73	0.003
CC70439		0.10	<10	<10	74	<10	67	0.020
CC70440		0.11	<10	<10	79	<10	75	0.035
CC70441		0.11	<10	<10	82	<10	65	0.013
CC70442		0.12	<10	<10	86	<10	97	0.009
CC70443		0.10	<10	<10	77	<10	101	0.005
CC70444		0.10	<10	<10	79	<10	54	0.058
CC70445		0.11	<10	<10	85	<10	62	0.100
CC70446		0.11	<10	<10	79	<10	54	0.007
CC70447		0.10	<10	<10	72	<10	72	0.002
CC70448		0.12	<10	<10	84	<10	66	0.011
CC70449		0.12	<10	<10	82	<10	45	0.011
CC70450		0.14	<10	<10	100	<10	71	0.009
CC70451		0.12	<10	<10	88	<10	77	0.028
CC70452		0.11	<10	<10	90	<10	90	0.346
CC70453		0.14	<10	<10	100	<10	117	0.010
CC70454		0.13	<10	<10	94	<10	108	0.012
CC70455		0.10	<10	<10	85	<10	105	0.017
CC70456		0.11	<10	<10	87	<10	91	0.012
CC70457		0.12	<10	<10	90	<10	95	0.003
CC70458		0.11	<10	<10	76	<10	79	<0.001
CC70459		0.08	<10	<10	66	<10	61	<0.001
CC70460		0.08	<10	<10	78	<10	74	0.008
CC70461		0.07	<10	<10	64	<10	85	0.006
CC70462		0.07	<10	<10	69	<10	58	0.001
CC70463		0.08	<10	<10	76	<10	78	0.003
CC70464		0.10	<10	<10	87	<10	100	<0.001
CC70465		0.06	<10	<10	65	<10	61	0.001
CC70466		0.09	<10	<10	85	<10	92	<0.001
CC70467		0.09	<10	<10	84	<10	104	0.005



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Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
CC70468		0.24	<0.2	1.86	13	<10	80	<0.5	<2	0.30	<0.5	15	50	53	3.60	10
CC70469		0.24	<0.2	2.09	13	<10	110	<0.5	<2	0.32	<0.5	15	58	55	3.73	10
CC70470		0.28	<0.2	2.10	15	<10	100	<0.5	<2	0.31	<0.5	15	56	50	3.72	<10
CC70471		0.30	<0.2	2.19	18	<10	150	<0.5	<2	0.28	<0.5	14	61	43	3.82	10
CC70472		0.20	<0.2	2.11	43	<10	120	<0.5	<2	0.34	<0.5	16	58	50	3.88	10
CC70473		0.20	<0.2	1.95	35	<10	140	<0.5	<2	0.35	<0.5	16	55	40	3.97	10
CC70474		0.28	<0.2	2.11	14	<10	130	<0.5	<2	0.23	<0.5	12	55	47	3.80	10
CC70475		0.18	<0.2	1.66	19	<10	110	<0.5	<2	0.36	<0.5	13	47	37	3.60	10
CC70476		0.26	0.2	2.08	17	<10	120	<0.5	<2	0.39	<0.5	13	60	54	3.74	10
CC70477		0.18	0.2	2.24	18	<10	170	<0.5	<2	0.44	<0.5	19	62	52	3.92	10
CC70478		0.20	<0.2	1.82	18	<10	110	<0.5	<2	0.39	<0.5	15	51	46	3.62	10
CC70479		0.28	<0.2	2.57	14	<10	190	<0.5	<2	0.30	<0.5	20	81	58	3.99	10
CC70480		0.30	0.2	2.15	19	<10	140	<0.5	<2	0.39	<0.5	13	59	51	3.54	10
CC70481		0.26	<0.2	1.71	20	<10	90	<0.5	<2	0.25	<0.5	12	50	37	3.53	10
CC70482		0.28	<0.2	2.38	40	<10	130	<0.5	<2	0.31	<0.5	21	61	61	4.21	10
CC70483		0.24	0.2	1.96	42	<10	120	<0.5	<2	0.35	<0.5	16	50	64	3.69	10
CC70484		0.24	0.2	2.11	22	<10	130	<0.5	<2	0.37	<0.5	21	56	56	3.86	10
CC70485		0.26	<0.2	2.79	38	<10	170	<0.5	<2	0.29	<0.5	22	74	84	4.64	10
CC70486		0.28	<0.2	1.55	12	<10	90	<0.5	<2	0.27	<0.5	11	46	33	3.28	10
CC70487		0.22	0.6	1.86	30	<10	120	<0.5	<2	0.49	<0.5	15	50	61	3.53	10
CC70488		0.28	<0.2	2.32	28	<10	160	<0.5	<2	0.31	<0.5	17	65	59	3.99	10
CC70489		0.22	<0.2	0.90	6	<10	60	<0.5	<2	0.21	<0.5	5	28	21	2.15	<10
CC70490		0.22	<0.2	1.72	14	<10	80	<0.5	<2	0.42	<0.5	15	44	91	2.56	<10
CC70491		0.28	<0.2	1.56	39	<10	70	<0.5	<2	0.28	<0.5	11	42	27	3.13	10
CC70492		0.26	<0.2	1.88	17	<10	120	<0.5	<2	0.28	<0.5	11	53	39	3.52	10
CC70493		0.26	0.4	1.41	16	<10	70	<0.5	<2	0.22	<0.5	11	41	34	2.85	<10
CC70494		0.22	<0.2	1.89	14	<10	100	<0.5	<2	0.24	<0.5	11	57	48	3.58	<10
CC70495		0.32	<0.2	2.21	19	<10	100	<0.5	<2	0.23	<0.5	14	57	45	3.84	10
CC70496		0.22	<0.2	2.05	28	<10	110	<0.5	<2	0.26	<0.5	13	54	40	3.66	10
CC70497		0.26	<0.2	2.04	58	<10	90	<0.5	<2	0.29	<0.5	22	52	62	3.64	<10
CC70498		0.24	<0.2	1.93	12	<10	70	<0.5	<2	0.20	<0.5	10	45	29	3.61	10
CC70499		0.20	<0.2	1.54	12	<10	80	<0.5	<2	0.28	<0.5	8	45	27	3.10	10
CC70500		0.34	<0.2	2.14	72	<10	100	<0.5	<2	0.31	<0.5	15	52	48	3.81	10
CC70501		0.16	<0.2	2.59	84	<10	210	<0.5	<2	0.35	<0.5	27	73	81	4.43	10
CC70502		0.16	0.2	2.47	209	<10	250	<0.5	<2	0.43	<0.5	22	59	66	4.23	10
CC70503		0.26	<0.2	2.62	953	<10	290	<0.5	<2	0.58	<0.5	22	60	72	4.72	10
CC70504		0.22	0.2	1.97	36	<10	90	<0.5	<2	0.34	<0.5	15	50	52	3.56	10
CC70505		0.18	<0.2	2.07	28	<10	100	<0.5	2	0.30	<0.5	15	54	54	3.85	10
CC70506		0.30	<0.2	2.23	29	<10	120	<0.5	3	0.34	<0.5	17	56	63	3.89	10
CC70507		0.24	<0.2	2.12	19	<10	140	<0.5	2	0.39	<0.5	16	73	54	3.73	10



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CERTIFICATE OF ANALYSIS VA09106141

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
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
CC70468		<1	0.14	10	0.87	492	1	0.02	42	980	5	0.06	<2	4	27	<20
CC70469		<1	0.14	10	0.92	579	1	0.01	38	1170	6	0.09	<2	3	29	<20
CC70470		<1	0.12	10	0.89	546	1	0.02	36	1170	6	0.09	<2	3	28	<20
CC70471		1	0.36	10	1.02	497	1	0.01	38	800	3	0.06	<2	5	26	<20
CC70472		<1	0.24	10	0.94	562	1	0.02	43	970	4	0.09	<2	4	30	<20
CC70473		<1	0.13	10	0.89	617	1	0.02	31	990	6	0.09	<2	3	29	<20
CC70474		1	0.22	10	0.86	411	1	0.01	32	960	6	0.07	<2	3	24	<20
CC70475		<1	0.08	10	0.69	603	2	0.01	27	1220	7	0.10	<2	2	31	<20
CC70476		<1	0.26	10	0.89	480	1	0.02	37	1210	5	0.09	<2	4	31	<20
CC70477		1	0.26	10	0.99	565	1	0.02	43	1230	4	0.13	<2	4	38	<20
CC70478		<1	0.13	10	0.85	524	1	0.02	30	1010	7	0.09	<2	3	32	<20
CC70479		1	0.40	10	1.15	495	1	0.02	39	900	4	0.06	<2	6	26	<20
CC70480		<1	0.30	10	0.89	479	1	0.02	33	1290	5	0.10	<2	4	32	<20
CC70481		<1	0.08	10	0.77	477	2	0.01	27	690	8	0.07	<2	3	24	<20
CC70482		1	0.18	10	1.00	554	1	0.02	39	1110	7	0.09	<2	4	32	<20
CC70483		<1	0.08	20	0.81	494	1	0.02	35	1190	6	0.12	<2	3	39	<20
CC70484		<1	0.14	10	0.91	745	2	0.02	37	1130	6	0.12	<2	4	35	<20
CC70485		1	0.30	20	1.27	601	2	0.02	58	840	5	0.09	<2	6	44	<20
CC70486		<1	0.16	10	0.70	313	1	0.01	28	660	4	0.07	<2	3	27	<20
CC70487		1	0.15	10	0.74	512	2	0.02	30	1460	4	0.16	<2	2	42	<20
CC70488		1	0.27	10	1.01	518	1	0.02	39	1220	5	0.12	<2	4	31	<20
CC70489		<1	0.07	10	0.40	171	<1	0.01	12	540	<2	0.06	<2	2	16	<20
CC70490		<1	0.12	20	0.78	208	1	0.02	48	1180	6	0.12	<2	3	36	<20
CC70491		1	0.08	10	0.69	289	1	0.01	28	510	5	0.04	<2	3	22	<20
CC70492		<1	0.22	10	0.86	408	1	0.02	28	680	4	0.07	<2	4	25	<20
CC70493		<1	0.12	10	0.63	283	1	0.01	30	640	2	0.06	<2	2	21	<20
CC70494		1	0.25	10	0.93	354	1	0.02	36	640	5	0.08	<2	4	24	<20
CC70495		1	0.16	10	0.94	385	1	0.02	40	580	4	0.06	<2	4	24	<20
CC70496		1	0.08	10	0.84	327	1	0.01	39	660	5	0.04	<2	3	23	<20
CC70497		<1	0.16	10	0.92	495	1	0.01	60	910	4	0.04	<2	4	23	<20
CC70498		<1	0.11	10	0.76	285	2	0.02	31	410	6	0.04	<2	3	22	<20
CC70499		1	0.10	10	0.62	211	1	0.02	26	590	4	0.06	<2	3	24	<20
CC70500		1	0.22	10	1.00	518	1	0.01	42	960	4	0.03	<2	5	23	<20
CC70501		<1	0.25	10	1.19	643	1	0.03	61	1190	6	0.15	<2	6	31	<20
CC70502		<1	0.27	10	1.11	652	1	0.03	43	1200	5	0.15	<2	5	31	<20
CC70503		1	0.49	10	1.61	758	<1	0.03	59	910	5	0.06	<2	9	28	<20
CC70504		<1	0.20	10	0.84	435	1	0.01	42	650	6	0.04	<2	4	26	<20
CC70505		<1	0.18	10	0.84	425	2	0.01	42	670	5	0.05	<2	4	27	<20
CC70506		<1	0.27	10	1.00	542	2	0.01	48	880	4	0.06	<2	5	29	<20
CC70507		<1	0.36	10	1.17	442	1	0.01	50	980	4	0.04	<2	7	26	<20



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CERTIFICATE OF ANALYSIS VA09106141

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti	Ti	U	V	W	Zn	Au
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2	0.001
CC70468		0.07	<10	<10	71	<10	90	0.008
CC70469		0.07	<10	<10	80	<10	86	0.003
CC70470		0.07	<10	<10	81	<10	88	0.005
CC70471		0.12	<10	<10	86	<10	95	0.005
CC70472		0.10	<10	<10	84	<10	90	0.005
CC70473		0.10	<10	<10	87	<10	85	0.003
CC70474		0.11	<10	<10	91	<10	87	0.003
CC70475		0.07	<10	<10	80	<10	74	0.027
CC70476		0.09	<10	<10	89	<10	85	0.002
CC70477		0.11	<10	<10	92	<10	90	0.001
CC70478		0.08	<10	<10	78	<10	86	0.005
CC70479		0.13	<10	<10	122	<10	93	0.001
CC70480		0.08	<10	<10	81	<10	80	0.004
CC70481		0.09	<10	<10	79	<10	83	0.003
CC70482		0.10	<10	<10	103	<10	98	<0.001
CC70483		0.07	<10	<10	75	<10	86	0.001
CC70484		0.09	<10	<10	85	<10	85	0.003
CC70485		0.14	<10	<10	113	<10	121	0.002
CC70486		0.10	<10	<10	79	<10	75	0.006
CC70487		0.06	<10	<10	78	<10	67	<0.001
CC70488		0.10	<10	<10	94	<10	97	0.003
CC70489		0.09	<10	<10	59	<10	43	0.001
CC70490		0.07	<10	<10	59	<10	97	0.004
CC70491		0.09	<10	<10	70	<10	64	0.005
CC70492		0.11	<10	<10	81	<10	73	<0.001
CC70493		0.08	<10	<10	66	<10	64	<0.001
CC70494		0.13	<10	<10	81	<10	82	<0.001
CC70495		0.11	<10	<10	80	<10	84	0.005
CC70496		0.08	<10	<10	76	<10	86	0.002
CC70497		0.09	<10	<10	70	<10	96	0.004
CC70498		0.10	<10	<10	79	<10	78	0.001
CC70499		0.09	<10	<10	77	<10	59	0.003
CC70500		0.09	<10	<10	72	<10	89	0.005
CC70501		0.13	<10	<10	107	<10	84	0.006
CC70502		0.13	<10	<10	105	<10	81	0.009
CC70503		0.22	<10	<10	125	<10	98	0.379
CC70504		0.08	<10	<10	73	<10	84	0.012
CC70505		0.09	<10	<10	81	<10	85	0.004
CC70506		0.09	<10	<10	78	<10	101	0.004
CC70507		0.12	<10	<10	95	<10	94	0.009



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Sample Description	Method Analyte Units LOR	WEI-21	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
	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	
	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10	
CC70508	0.26	<0.2	2.31	23	<10	150	<0.5	2	0.31	<0.5	17	65	61	4.05	10	
CC70509	0.26	<0.2	2.01	18	<10	110	<0.5	2	0.30	<0.5	16	55	51	3.68	10	
CC70510	0.20	0.2	2.33	14	<10	140	<0.5	2	0.31	<0.5	20	61	64	4.09	10	
CC70511	0.34	<0.2	1.83	21	<10	100	<0.5	<2	0.32	<0.5	17	48	63	3.53	10	
CC70512	0.18	0.3	2.23	21	<10	130	<0.5	2	0.31	<0.5	20	57	75	3.96	10	
CC70513	0.14	<0.2	2.42	23	<10	160	<0.5	<2	0.41	<0.5	21	62	83	4.22	10	
CC70514	0.26	0.2	2.14	33	<10	170	<0.5	2	0.40	<0.5	18	56	69	3.51	10	
CC70515	0.26	<0.2	2.15	52	<10	140	<0.5	2	0.32	<0.5	20	61	69	3.87	10	
CC70516	0.26	0.2	2.68	55	<10	200	<0.5	2	0.33	<0.5	25	72	101	4.48	10	
CC70517	0.32	<0.2	2.14	33	<10	180	<0.5	<2	0.34	<0.5	16	55	62	3.59	10	
CC70518	0.32	<0.2	1.97	45	<10	140	<0.5	<2	0.34	<0.5	18	50	65	3.63	<10	
CC70519	0.32	0.2	1.89	60	<10	160	<0.5	<2	0.41	<0.5	23	47	69	3.74	10	
CC70520	0.42	<0.2	1.81	38	<10	150	<0.5	<2	0.30	<0.5	16	48	51	3.10	10	
CC70521	0.30	0.2	2.25	23	<10	170	<0.5	<2	0.32	<0.5	18	59	61	3.79	10	
CC70522	0.26	<0.2	1.86	66	<10	160	<0.5	<2	0.33	<0.5	17	51	52	3.28	10	
CC70523	0.26	<0.2	1.90	26	<10	160	<0.5	<2	0.27	<0.5	13	52	42	3.19	10	
CC70524	0.32	0.2	1.92	25	<10	160	<0.5	<2	0.30	<0.5	13	49	40	3.00	10	
CC70525	0.28	0.2	2.26	20	<10	160	<0.5	<2	0.26	<0.5	14	55	52	3.54	10	
CC70526	0.34	0.2	2.08	23	<10	170	<0.5	2	0.23	<0.5	15	54	47	3.35	10	
CC70527	0.28	0.2	2.26	18	<10	190	<0.5	2	0.31	<0.5	14	58	49	3.81	10	
CC70528	0.30	0.2	2.43	15	<10	220	<0.5	3	0.28	0.5	18	63	94	3.98	10	
CC70529	0.28	<0.2	2.07	14	<10	200	<0.5	2	0.34	<0.5	13	54	47	3.76	10	
CC70530	0.18	0.3	2.49	21	<10	200	<0.5	2	0.34	<0.5	15	63	61	3.89	10	
CC70531	0.32	0.2	2.28	17	<10	200	<0.5	2	0.29	<0.5	13	57	49	3.47	10	
CC70532	0.14	0.3	2.24	18	<10	160	<0.5	<2	0.31	<0.5	12	57	48	3.40	10	
CC70533	0.12	0.3	2.24	11	<10	210	<0.5	2	0.32	<0.5	14	59	45	3.30	10	
CC70534	0.18	0.3	2.11	32	<10	160	<0.5	2	0.38	<0.5	16	56	43	3.47	10	
CC70535	0.32	0.2	1.81	27	<10	130	<0.5	3	0.33	<0.5	16	49	35	2.91	10	
CC70536	0.26	0.2	2.03	45	<10	160	<0.5	<2	0.39	<0.5	16	62	44	3.31	10	
CC70537	0.20	0.2	1.79	15	<10	150	<0.5	<2	0.35	<0.5	14	48	45	3.01	10	
CC70538	0.36	<0.2	1.81	17	<10	150	<0.5	<2	0.32	<0.5	16	48	49	3.07	<10	
CC70539	0.14	<0.2	2.01	20	<10	160	<0.5	3	0.33	<0.5	18	52	43	3.25	10	
CC70540	0.34	<0.2	1.99	90	<10	250	<0.5	<2	0.35	<0.5	14	60	49	3.21	10	
CC70541	0.12	<0.2	2.95	36	<10	320	<0.5	<2	0.45	<0.5	20	89	69	4.50	10	
CC70542	0.38	<0.2	1.74	41	<10	170	<0.5	<2	0.43	<0.5	15	52	35	2.91	<10	
CC70543	0.28	<0.2	1.93	19	<10	160	<0.5	<2	0.33	<0.5	15	58	37	3.26	10	
CC70544	0.32	<0.2	2.07	27	<10	170	<0.5	<2	0.31	<0.5	15	56	40	3.47	10	
CC70545	0.60	0.2	1.70	26	<10	170	<0.5	<2	0.33	<0.5	10	48	30	2.75	10	
CC70546	0.22	<0.2	2.28	96	<10	270	<0.5	<2	0.39	<0.5	20	63	54	3.60	10	
CC70547	0.46	<0.2	2.42	49	<10	240	<0.5	<2	0.39	<0.5	15	73	47	3.54	10	



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
CC70508		<1	0.36	10	1.12	460	1	0.01	55	840	4	0.05	2	6	25	<20
CC70509		<1	0.31	10	0.98	395	1	0.01	48	870	2	0.06	<2	5	23	<20
CC70510		1	0.32	10	1.09	516	1	0.01	53	810	3	0.08	<2	5	28	<20
CC70511		1	0.27	10	0.88	427	1	0.01	58	990	2	0.04	<2	5	23	<20
CC70512		1	0.26	10	1.02	429	2	0.02	58	830	3	0.08	<2	5	28	<20
CC70513		<1	0.27	10	1.07	484	1	0.02	61	970	4	0.09	2	5	34	<20
CC70514		<1	0.33	10	0.95	463	1	0.02	55	1070	4	0.10	<2	5	30	<20
CC70515		<1	0.33	10	1.06	429	1	0.02	65	770	2	0.08	<2	5	25	<20
CC70516		<1	0.47	10	1.27	537	1	0.02	89	960	4	0.09	2	7	28	<20
CC70517		1	0.34	10	0.95	476	1	0.02	43	990	2	0.08	<2	6	27	<20
CC70518		<1	0.32	10	0.94	437	1	0.02	56	1030	3	0.06	2	6	24	<20
CC70519		<1	0.34	10	0.86	454	1	0.02	61	1290	3	0.08	<2	5	30	<20
CC70520		<1	0.32	10	0.85	364	1	0.01	40	850	3	0.07	<2	5	23	<20
CC70521		1	0.38	10	1.06	439	1	0.02	48	850	3	0.06	<2	7	24	<20
CC70522		1	0.32	10	0.88	396	1	0.02	45	780	3	0.05	<2	5	25	<20
CC70523		<1	0.31	10	0.87	367	1	0.01	37	710	2	0.06	<2	6	22	<20
CC70524		<1	0.32	<10	0.83	384	<1	0.01	35	880	10	0.06	4	5	23	<20
CC70525		<1	0.28	10	0.90	389	<1	0.01	38	920	7	0.08	3	5	26	<20
CC70526		<1	0.26	10	0.85	430	<1	0.01	36	760	6	0.07	<2	5	23	<20
CC70527		<1	0.25	10	0.91	433	<1	0.01	34	840	8	0.09	<2	5	29	<20
CC70528		<1	0.40	10	0.95	419	<1	0.02	53	1220	6	0.10	2	6	31	<20
CC70529		<1	0.29	10	0.83	449	<1	0.01	32	980	7	0.11	<2	5	32	<20
CC70530		<1	0.32	10	0.97	446	<1	0.01	44	1080	7	0.10	<2	5	31	<20
CC70531		<1	0.37	<10	0.95	374	<1	0.01	38	880	5	0.06	<2	7	24	<20
CC70532		<1	0.26	10	0.91	336	<1	0.01	35	990	6	0.10	<2	5	28	<20
CC70533		<1	0.27	10	0.93	422	<1	0.01	37	820	6	0.07	3	6	25	<20
CC70534		<1	0.26	10	0.93	474	<1	0.01	38	920	7	0.06	2	6	30	<20
CC70535		<1	0.21	10	0.81	548	<1	0.01	35	870	7	0.04	<2	5	25	<20
CC70536		<1	0.29	10	1.02	351	1	0.02	43	990	3	0.06	<2	6	28	<20
CC70537		1	0.25	10	0.82	374	1	0.01	38	910	2	0.05	<2	5	24	<20
CC70538		<1	0.26	<10	0.83	379	1	0.01	40	920	4	0.05	<2	5	21	<20
CC70539		<1	0.22	10	0.90	582	1	0.01	39	930	3	0.06	<2	5	23	<20
CC70540		<1	0.46	10	1.08	429	1	0.02	38	900	2	0.06	<2	7	22	<20
CC70541		1	0.74	10	1.57	487	1	0.03	56	860	3	0.05	<2	11	33	<20
CC70542		1	0.30	10	0.86	506	<1	0.02	32	1130	2	0.06	<2	5	24	<20
CC70543		<1	0.26	10	0.90	417	<1	0.02	36	890	2	0.06	<2	6	21	<20
CC70544		<1	0.28	10	0.95	381	<1	0.02	35	830	4	0.06	<2	7	21	<20
CC70545		1	0.35	<10	0.72	376	<1	0.01	28	1160	2	0.05	<2	6	21	<20
CC70546		1	0.50	10	1.10	504	<1	0.02	42	810	4	0.06	<2	7	28	<20
CC70547		1	0.45	10	1.11	399	<1	0.03	43	900	2	0.05	<2	8	29	<20



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CERTIFICATE OF ANALYSIS VA09106141

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
	Analyte	Ti	Ti	U	V	W	Zn	Au
	Units LOR	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2	0.001
CC70508		0.12	<10	<10	92	<10	104	0.013
CC70509		0.11	<10	<10	80	<10	97	0.010
CC70510		0.11	<10	<10	90	<10	101	0.004
CC70511		0.10	<10	<10	69	<10	92	0.023
CC70512		0.10	<10	<10	87	<10	95	0.005
CC70513		0.11	<10	<10	94	<10	91	0.003
CC70514		0.10	<10	<10	83	<10	82	0.012
CC70515		0.11	<10	<10	91	<10	82	0.005
CC70516		0.14	<10	<10	107	<10	84	0.011
CC70517		0.12	<10	<10	91	<10	62	<0.001
CC70518		0.11	<10	<10	78	<10	74	0.009
CC70519		0.10	<10	<10	76	<10	79	0.009
CC70520		0.10	<10	<10	76	<10	54	0.006
CC70521		0.14	<10	<10	93	<10	66	0.008
CC70522		0.11	<10	<10	81	<10	62	0.021
CC70523		0.11	<10	<10	80	<10	60	0.018
CC70524		0.10	<10	<10	78	<10	57	0.003
CC70525		0.10	<10	<10	89	<10	58	0.002
CC70526		0.11	<10	<10	87	<10	50	0.011
CC70527		0.12	<10	<10	100	<10	54	0.002
CC70528		0.12	<10	<10	99	<10	80	0.007
CC70529		0.12	<10	<10	95	<10	64	0.004
CC70530		0.11	<10	<10	105	<10	57	0.006
CC70531		0.13	<10	<10	95	<10	51	0.002
CC70532		0.11	<10	<10	93	<10	55	0.002
CC70533		0.13	<10	<10	95	<10	53	0.001
CC70534		0.12	<10	<10	86	<10	56	0.007
CC70535		0.10	<10	<10	72	<10	51	0.004
CC70536		0.11	<10	<10	84	<10	57	0.009
CC70537		0.11	<10	<10	79	<10	46	0.004
CC70538		0.11	<10	<10	80	<10	49	0.002
CC70539		0.11	<10	<10	84	<10	54	0.010
CC70540		0.15	<10	<10	88	<10	66	0.013
CC70541		0.20	<10	<10	129	<10	85	0.006
CC70542		0.13	<10	<10	76	<10	56	0.002
CC70543		0.14	<10	<10	87	<10	59	0.005
CC70544		0.14	<10	<10	87	<10	79	0.007
CC70545		0.13	<10	<10	73	<10	65	0.002
CC70546		0.18	<10	<10	104	<10	84	0.010
CC70547		0.17	<10	<10	108	<10	80	0.012



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Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
CC70548		0.20	0.2	1.67	80	<10	140	<0.5	<2	0.35	<0.5	14	46	46	3.15	10
CC70549		0.20	<0.2	2.30	38	<10	190	<0.5	<2	0.41	<0.5	19	68	49	3.82	10
CC70550		0.38	<0.2	2.30	139	<10	190	<0.5	<2	0.46	<0.5	22	79	69	3.91	10
CC70551		0.32	<0.2	2.28	102	<10	200	0.5	<2	0.39	<0.5	20	59	66	4.03	10
CC70552		0.28	<0.2	2.43	33	<10	250	0.5	<2	0.37	<0.5	20	71	82	4.31	10
CC70553		0.56	<0.2	2.15	29	<10	190	<0.5	<2	0.35	<0.5	17	59	59	3.59	10
CC70554		0.34	<0.2	1.91	92	<10	270	<0.5	<2	0.42	<0.5	14	64	48	3.28	10
CC70555		0.42	<0.2	2.83	186	<10	210	0.5	<2	0.34	<0.5	22	96	79	4.49	10
CC70556		0.38	<0.2	1.78	87	<10	260	<0.5	<2	0.39	<0.5	14	57	46	3.10	10
CC70557		0.40	<0.2	2.29	114	<10	270	<0.5	<2	0.41	<0.5	17	89	53	3.64	10
CC70558		0.40	<0.2	1.82	94	<10	220	<0.5	<2	0.36	<0.5	13	55	46	3.10	10
CC55280		0.28	<0.2	2.05	15	<10	110	<0.5	<2	0.30	<0.5	14	53	39	3.26	10
CC55281		0.22	<0.2	2.13	12	<10	110	<0.5	<2	0.23	<0.5	13	59	46	4.24	10
CC55282		0.18	0.2	1.35	32	<10	70	<0.5	<2	0.27	<0.5	6	29	36	2.36	<10
CC55283		0.18	<0.2	0.55	8	<10	30	<0.5	<2	0.23	<0.5	5	14	27	1.97	<10
CC55284		0.36	<0.2	2.17	125	<10	80	0.6	<2	0.25	<0.5	19	50	89	4.19	10
CC55285		0.40	<0.2	2.46	160	<10	80	0.7	<2	0.26	<0.5	17	53	71	4.45	10
CC55286		0.24	<0.2	1.71	85	<10	90	<0.5	<2	0.32	<0.5	15	48	43	3.49	10
CC55287		0.24	<0.2	2.25	60	<10	90	0.6	<2	0.30	<0.5	26	55	70	4.51	10
CC55288		0.24	<0.2	0.81	8	<10	60	<0.5	<2	0.22	<0.5	9	20	25	2.08	<10
CC55289		0.32	<0.2	2.55	20	<10	100	0.5	<2	0.26	<0.5	22	63	58	4.49	10
CC55290		0.44	<0.2	2.11	8	<10	210	<0.5	<2	0.49	<0.5	15	53	41	3.06	10
CC55291		0.46	<0.2	1.92	14	<10	180	<0.5	<2	0.35	<0.5	22	48	38	4.19	10
CC55292		0.42	<0.2	2.17	45	<10	170	<0.5	<2	0.37	<0.5	13	55	37	3.92	10
CC55293		0.42	<0.2	1.69	28	<10	140	<0.5	<2	0.32	<0.5	15	42	25	3.54	10
CC70601		0.68	<0.2	2.23	17	<10	170	<0.5	<2	0.37	<0.5	12	64	43	3.59	10
CC70602		0.44	<0.2	2.13	16	<10	150	<0.5	<2	0.30	<0.5	14	56	45	3.50	10
CC70603		0.38	<0.2	1.67	20	<10	110	<0.5	<2	0.36	<0.5	11	49	36	2.97	10



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CERTIFICATE OF ANALYSIS VA09106141

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
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
CC70548		1	0.21	10	0.73	381	1	0.02	34	920	3	0.09	<2	5	26	<20
CC70549		1	0.27	10	1.08	522	1	0.02	45	950	4	0.08	<2	6	33	<20
CC70550		1	0.36	10	1.25	547	1	0.02	66	1210	5	0.06	<2	7	40	<20
CC70551		1	0.35	10	0.97	502	1	0.02	54	1140	4	0.07	<2	7	29	<20
CC70552		1	0.51	10	1.13	458	1	0.02	64	1130	3	0.07	<2	9	26	<20
CC70553		<1	0.40	10	1.02	396	<1	0.02	51	890	2	0.05	<2	8	24	<20
CC70554		1	0.49	10	1.12	396	<1	0.02	41	1130	4	0.06	<2	6	23	<20
CC70555		<1	0.28	10	1.44	397	1	0.02	71	1030	6	0.06	<2	9	34	<20
CC70556		<1	0.46	10	1.04	395	<1	0.02	37	1020	<2	0.05	<2	6	22	<20
CC70557		1	0.55	10	1.33	440	<1	0.02	56	980	2	0.06	<2	8	25	<20
CC70558		1	0.42	10	1.03	380	<1	0.02	36	890	<2	0.06	<2	6	20	<20
CC55280		<1	0.19	10	0.92	417	<1	0.02	40	860	<2	0.04	<2	4	23	<20
CC55281		<1	0.21	10	0.93	352	2	0.02	45	530	4	0.08	<2	5	27	<20
CC55282		<1	0.04	10	0.52	220	1	0.02	21	1020	4	0.08	<2	1	21	<20
CC55283		<1	0.02	10	0.22	129	<1	0.01	9	860	<2	0.05	<2	1	16	<20
CC55284		<1	0.08	20	0.90	568	1	0.01	56	1110	8	0.07	<2	4	27	<20
CC55285		<1	0.07	20	1.01	628	1	0.01	50	960	13	0.05	<2	4	22	<20
CC55286		<1	0.13	10	0.75	539	1	0.02	33	1200	4	0.10	<2	3	29	<20
CC55287		1	0.09	10	0.91	1085	2	0.01	52	1280	13	0.08	<2	3	26	<20
CC55288		<1	0.04	10	0.35	290	<1	0.01	15	720	2	0.06	<2	1	17	<20
CC55289		1	0.19	10	1.12	807	1	0.02	54	670	10	0.06	<2	5	20	<20
CC55290		<1	0.28	10	0.99	327	<1	0.03	33	980	2	0.05	<2	5	31	<20
CC55291		<1	0.21	10	0.79	744	1	0.02	39	1080	3	0.06	<2	6	24	<20
CC55292		<1	0.24	10	0.89	398	<1	0.02	34	1030	4	0.07	<2	6	27	<20
CC55293		1	0.20	10	0.71	622	<1	0.02	26	950	2	0.05	<2	5	20	<20
CC70601		<1	0.30	10	1.02	366	<1	0.01	39	1000	2	0.03	<2	8	28	<20
CC70602		1	0.22	10	0.90	385	1	0.01	38	1010	4	0.05	<2	6	22	<20
CC70603		<1	0.24	10	0.83	299	<1	0.02	34	1020	2	0.04	<2	5	25	<20



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CERTIFICATE OF ANALYSIS VA09106141

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti	Ti	U	V	W	Zn	Au
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2	0.001
CC70548		0.11	<10	<10	86	<10	52	0.007
CC70549		0.14	<10	<10	102	<10	71	0.019
CC70550		0.12	<10	<10	93	<10	86	0.028
CC70551		0.13	<10	<10	94	<10	82	0.012
CC70552		0.15	<10	<10	107	<10	69	0.008
CC70553		0.13	<10	<10	91	<10	63	0.008
CC70554		0.17	<10	<10	90	<10	66	0.019
CC70555		0.14	<10	<10	112	<10	90	0.022
CC70556		0.16	<10	<10	85	<10	63	0.027
CC70557		0.18	<10	<10	105	<10	78	0.013
CC70558		0.16	<10	<10	85	<10	65	0.012
CC55280		0.10	<10	<10	69	<10	77	0.007
CC55281		0.14	<10	<10	95	<10	84	0.002
CC55282		0.03	<10	<10	43	<10	53	0.006
CC55283		0.07	<10	<10	58	<10	31	<0.001
CC55284		0.05	<10	<10	71	<10	118	0.013
CC55285		0.03	<10	<10	66	<10	101	0.015
CC55286		0.07	<10	<10	76	<10	83	0.004
CC55287		0.04	<10	<10	74	<10	102	0.007
CC55288		0.05	<10	<10	49	<10	41	<0.001
CC55289		0.08	<10	<10	83	<10	116	0.001
CC55290		0.17	<10	<10	87	<10	73	0.002
CC55291		0.12	<10	<10	84	<10	62	0.002
CC55292		0.12	<10	<10	89	<10	64	0.003
CC55293		0.11	<10	<10	72	<10	56	0.003
CC70601		0.14	<10	<10	93	<10	54	0.003
CC70602		0.12	<10	<10	89	<10	55	0.003
CC70603		0.12	<10	<10	72	<10	51	0.008



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CERTIFICATE OF ANALYSIS VA09106141

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



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CERTIFICATE VA09106140

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P.O. No.:

This report is for 147 Soil samples submitted to our lab in Vancouver, BC, Canada on 22-SEP-2009.

The following have access to data associated with this certificate:

JOAN MARIACHER

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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CERTIFICATE OF ANALYSIS VA09106140

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
CC70260		0.22	<0.2	2.18	34	<10	140	<0.5	<2	0.32	<0.5	16	59	50	3.63	10
CC70261		0.18	0.2	2.69	41	<10	220	<0.5	<2	0.44	<0.5	21	79	58	4.23	10
CC70262		0.16	0.3	2.07	41	<10	180	<0.5	<2	0.40	<0.5	17	53	54	3.56	10
CC70263		0.16	0.2	2.26	19	<10	180	<0.5	<2	0.33	<0.5	17	55	58	3.20	10
CC70264		0.22	<0.2	2.24	43	<10	170	<0.5	<2	0.42	<0.5	19	63	69	3.87	10
CC70265		0.14	<0.2	2.44	55	<10	200	<0.5	<2	0.37	<0.5	24	70	67	4.04	10
CC70266		0.22	<0.2	2.29	181	<10	150	<0.5	<2	0.53	<0.5	25	57	85	3.98	10
CC70267		0.06	0.3	2.63	96	<10	150	<0.5	<2	0.50	<0.5	20	64	74	4.41	10
CC70268		0.24	0.2	2.44	39	<10	180	<0.5	<2	0.36	<0.5	17	62	78	3.74	10
CC70269		0.16	0.2	2.31	23	<10	160	<0.5	<2	0.37	<0.5	18	64	65	3.91	10
CC70270		0.46	<0.2	2.13	35	<10	160	<0.5	<2	0.36	<0.5	14	58	42	3.63	10
CC70271		0.28	<0.2	2.27	67	<10	190	<0.5	<2	0.42	<0.5	19	60	57	3.93	10
CC70272		0.38	<0.2	2.43	67	<10	210	<0.5	<2	0.43	<0.5	20	65	60	4.20	10
CC70273		0.36	<0.2	2.12	61	<10	180	<0.5	<2	0.37	<0.5	18	56	50	3.64	10
CC70274		0.36	<0.2	2.14	53	<10	180	<0.5	<2	0.35	<0.5	17	58	44	3.66	10
CC70275		0.22	<0.2	2.24	69	<10	190	<0.5	<2	0.39	<0.5	19	59	54	3.84	10
CC70276		0.12	<0.2	2.21	62	<10	170	<0.5	<2	0.39	<0.5	19	58	58	3.82	10
CC70277		0.16	0.2	2.37	72	<10	200	<0.5	<2	0.38	<0.5	19	64	55	4.09	10
CC70278		0.16	0.2	2.26	79	<10	220	<0.5	<2	0.38	<0.5	20	62	53	4.02	10
CC70279		0.10	<0.2	2.28	85	<10	220	<0.5	<2	0.40	<0.5	20	63	56	4.08	10
CC70280		0.32	<0.2	1.78	40	<10	160	<0.5	<2	0.37	<0.5	14	50	47	3.03	10
CC70281		0.40	<0.2	2.50	161	<10	220	<0.5	<2	0.40	<0.5	22	72	88	4.34	10
CC70282		0.26	<0.2	1.82	45	<10	160	<0.5	<2	0.28	<0.5	13	51	37	3.32	10
CC70283		0.38	<0.2	2.09	59	<10	180	<0.5	<2	0.29	<0.5	15	57	45	3.60	10
CC70286		0.28	<0.2	2.01	40	<10	170	<0.5	<2	0.34	<0.5	14	57	41	3.14	10
CC70287		0.38	<0.2	1.67	97	<10	140	<0.5	<2	0.31	<0.5	14	44	43	3.11	10
CC70288		0.28	0.2	2.14	77	<10	200	<0.5	<2	0.36	<0.5	17	61	46	3.91	10
CC70289		0.36	<0.2	2.33	88	<10	200	0.5	<2	0.34	<0.5	19	57	61	4.02	10
CC70290		0.38	<0.2	1.91	52	<10	200	<0.5	<2	0.36	<0.5	16	61	35	3.74	10
CC70291		0.32	<0.2	1.81	38	<10	190	<0.5	<2	0.36	<0.5	12	53	30	3.27	10
CC70292		0.34	<0.2	1.76	47	<10	180	<0.5	<2	0.33	<0.5	12	49	27	3.46	<10
CC70293		0.36	<0.2	1.84	94	<10	170	<0.5	<2	0.31	<0.5	10	54	32	4.06	10
CC70294		0.30	<0.2	1.81	48	<10	180	<0.5	<2	0.37	<0.5	13	54	34	3.13	10
CC70295		0.40	<0.2	2.25	50	<10	240	<0.5	<2	0.37	<0.5	16	73	44	3.83	10
CC70296		0.36	<0.2	1.45	40	<10	140	<0.5	<2	0.39	<0.5	10	41	26	2.64	<10
CC70297		0.20	0.2	1.88	21	<10	170	<0.5	<2	0.30	<0.5	10	51	31	2.45	10
CC70298		0.32	<0.2	1.44	72	<10	150	<0.5	<2	0.35	<0.5	13	42	30	2.97	10
CC70299		0.16	0.4	2.66	68	<10	270	0.5	<2	0.39	<0.5	19	73	48	4.31	10
CC70319		0.22	0.2	2.09	51	<10	110	<0.5	<2	0.48	<0.5	17	54	60	3.85	10
CC70320		0.26	<0.2	2.36	62	<10	180	<0.5	<2	0.44	<0.5	19	62	59	4.00	10



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Project: JPR

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CERTIFICATE OF ANALYSIS VA09106140

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
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
CC70260		<1	0.21	10	0.95	442	1	<0.01	46	990	5	0.03	<2	6	26	<20
CC70261		<1	0.31	10	1.23	643	1	0.01	55	1050	4	0.07	<2	7	35	<20
CC70262		<1	0.27	10	0.89	560	1	0.01	44	1020	3	0.06	<2	6	29	<20
CC70263		<1	0.20	10	0.93	446	1	0.01	46	980	4	0.09	2	6	27	<20
CC70264		<1	0.41	10	1.10	477	1	0.01	58	1050	4	0.07	<2	8	26	<20
CC70265		<1	0.31	10	1.10	530	1	0.01	63	990	6	0.06	<2	7	27	<20
CC70266		<1	0.35	10	1.05	613	1	<0.01	69	1030	5	0.04	<2	6	30	<20
CC70267		<1	0.36	10	1.17	570	1	0.01	63	980	6	0.04	<2	6	38	<20
CC70268		<1	0.44	10	1.08	384	1	<0.01	58	1000	4	<0.01	<2	7	26	<20
CC70269		<1	0.38	10	1.09	495	1	<0.01	55	950	5	0.03	<2	6	29	<20
CC70270		<1	0.39	10	1.04	573	<1	<0.01	41	1170	2	0.01	<2	6	23	<20
CC70271		<1	0.34	10	1.02	737	1	0.01	53	1070	3	0.03	<2	6	29	<20
CC70272		<1	0.36	10	1.10	846	1	0.01	58	1110	4	0.03	<2	7	31	<20
CC70273		<1	0.30	10	0.95	653	1	<0.01	49	1000	3	0.02	<2	6	25	<20
CC70274		<1	0.33	<10	0.99	636	1	0.01	46	940	<2	0.01	2	7	23	<20
CC70275		<1	0.31	10	0.99	638	1	0.01	54	990	4	0.03	<2	7	27	<20
CC70276		<1	0.31	10	0.98	613	1	0.01	56	1020	3	0.03	<2	6	27	<20
CC70277		<1	0.32	10	1.06	753	1	0.01	54	940	5	0.03	<2	7	28	<20
CC70278		<1	0.31	10	1.01	866	1	0.01	54	990	<2	0.03	<2	7	27	<20
CC70279		<1	0.32	10	1.01	895	1	0.01	54	1070	4	0.04	<2	7	28	<20
CC70280		<1	0.35	<10	0.84	361	1	<0.01	41	1050	<2	0.01	<2	6	23	<20
CC70281		<1	0.42	10	1.14	542	1	0.01	70	1210	6	0.04	2	8	30	<20
CC70282		<1	0.24	<10	0.82	363	1	<0.01	39	970	<2	0.02	<2	6	19	<20
CC70283		1	0.27	10	0.93	345	1	<0.01	45	1030	3	0.03	<2	7	21	<20
CC70286		<1	0.24	10	0.91	330	1	<0.01	43	980	2	0.03	<2	6	23	<20
CC70287		<1	0.23	<10	0.72	407	<1	<0.01	41	1050	5	0.02	<2	5	20	<20
CC70288		<1	0.26	10	0.96	682	1	0.01	49	1000	5	0.03	<2	6	27	<20
CC70289		<1	0.33	10	0.94	459	1	<0.01	54	980	3	0.03	<2	7	26	<20
CC70290		<1	0.28	<10	0.84	801	1	<0.01	42	1040	4	0.02	<2	6	23	<20
CC70291		<1	0.28	<10	0.81	466	1	0.01	37	1080	2	0.02	<2	6	22	<20
CC70292		<1	0.28	<10	0.80	542	<1	0.01	32	980	<2	0.01	<2	6	21	<20
CC70293		<1	0.27	<10	0.82	321	1	0.01	35	1100	4	0.02	<2	6	20	<20
CC70294		<1	0.28	<10	0.80	483	1	<0.01	37	1150	2	0.02	<2	6	24	<20
CC70295		<1	0.39	<10	0.99	590	1	0.01	49	1050	5	0.03	<2	7	25	<20
CC70296		<1	0.24	<10	0.66	381	<1	<0.01	30	1350	3	0.01	<2	4	22	<20
CC70297		<1	0.21	10	0.83	276	<1	<0.01	31	840	2	0.03	<2	5	20	<20
CC70298		<1	0.22	<10	0.71	615	1	0.01	29	1140	2	0.02	<2	4	19	<20
CC70299		<1	0.35	10	1.07	801	1	0.01	52	950	4	0.05	<2	8	31	<20
CC70319		<1	0.35	10	1.03	453	1	<0.01	56	1330	4	0.02	<2	5	35	<20
CC70320		<1	0.34	10	1.05	613	1	0.01	57	1130	3	0.03	<2	7	31	<20



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CERTIFICATE OF ANALYSIS VA09106140

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
CC70260		0.12	<10	<10	83	<10	62	0.009
CC70261		0.13	<10	<10	103	<10	72	0.007
CC70262		0.11	<10	<10	85	<10	60	0.006
CC70263		0.10	<10	<10	88	<10	60	0.005
CC70264		0.13	<10	<10	91	<10	74	0.005
CC70265		0.13	<10	<10	96	<10	77	0.011
CC70266		0.11	<10	<10	84	<10	106	0.014
CC70267		0.12	<10	<10	90	<10	122	0.007
CC70268		0.14	<10	<10	83	<10	97	0.006
CC70269		0.13	<10	<10	89	<10	109	0.008
CC70270		0.11	<10	<10	78	<10	86	0.005
CC70271		0.12	<10	<10	86	<10	91	0.007
CC70272		0.13	<10	<10	92	<10	100	0.009
CC70273		0.12	<10	<10	80	<10	81	0.020
CC70274		0.13	<10	<10	83	<10	81	NSS
CC70275		0.12	<10	<10	85	<10	84	0.010
CC70276		0.12	<10	<10	83	<10	97	0.009
CC70277		0.12	<10	<10	89	<10	83	0.009
CC70278		0.13	<10	<10	87	<10	79	0.009
CC70279		0.13	<10	<10	89	<10	78	0.015
CC70280		0.10	<10	<10	71	<10	57	0.005
CC70281		0.13	<10	<10	100	<10	76	0.025
CC70282		0.11	<10	<10	71	<10	59	0.008
CC70283		0.13	<10	<10	82	<10	66	0.008
CC70286		0.12	<10	<10	79	<10	63	0.012
CC70287		0.10	<10	<10	69	<10	51	0.010
CC70288		0.12	<10	<10	84	<10	70	0.007
CC70289		0.14	<10	<10	90	<10	78	0.011
CC70290		0.12	<10	<10	80	<10	62	0.004
CC70291		0.12	<10	<10	75	<10	60	0.003
CC70292		0.12	<10	<10	74	<10	57	NSS
CC70293		0.12	<10	<10	79	<10	59	0.010
CC70294		0.12	<10	<10	76	<10	59	0.004
CC70295		0.14	<10	<10	92	<10	72	0.007
CC70296		0.10	<10	<10	61	<10	47	0.001
CC70297		0.13	<10	<10	71	<10	55	0.005
CC70298		0.12	<10	<10	74	<10	48	0.010
CC70299		0.16	<10	<10	107	<10	92	0.011
CC70319		0.11	<10	<10	75	<10	104	0.006
CC70320		0.13	<10	<10	88	<10	98	0.006



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Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
CC70321		0.26	<0.2	2.12	21	<10	150	<0.5	<2	0.39	<0.5	16	59	58	3.79	10
CC70322		0.20	<0.2	0.87	6	<10	70	<0.5	<2	0.25	0.5	9	21	24	2.19	<10
CC70323		0.18	0.3	2.44	16	<10	170	<0.5	<2	0.45	<0.5	17	67	64	4.06	10
CC70324		0.22	0.3	2.84	17	<10	190	<0.5	2	0.34	<0.5	30	74	144	4.64	10
CC70325		0.24	0.2	2.41	18	<10	140	<0.5	<2	0.35	<0.5	24	62	77	4.15	10
CC70326		0.30	0.3	2.27	51	<10	150	<0.5	<2	0.42	<0.5	24	58	73	3.93	10
CC70327		0.36	0.2	2.30	43	<10	140	<0.5	<2	0.43	<0.5	14	63	61	3.86	10
CC70328		0.24	0.4	2.57	58	<10	200	<0.5	<2	0.47	<0.5	30	70	107	4.30	10
CC70329		0.32	<0.2	1.83	34	<10	170	<0.5	2	0.37	<0.5	15	51	51	3.17	10
CC70330		0.32	0.2	2.18	71	<10	160	<0.5	3	0.35	<0.5	20	60	64	3.80	10
CC70331		0.46	<0.2	2.16	16	<10	120	<0.5	2	0.28	<0.5	13	57	44	3.65	10
CC70332		0.30	<0.2	1.57	10	<10	80	<0.5	<2	0.36	<0.5	16	46	47	3.41	<10
CC70333		0.40	0.3	1.87	13	<10	120	<0.5	2	0.39	<0.5	15	53	45	3.24	<10
CC70334		0.32	<0.2	1.80	19	<10	110	<0.5	<2	0.39	<0.5	14	50	44	3.30	<10
CC70335		0.36	<0.2	1.85	24	<10	110	<0.5	<2	0.40	<0.5	14	51	47	3.34	10
CC70336		0.34	<0.2	1.96	25	<10	120	<0.5	<2	0.40	<0.5	15	55	49	3.52	10
CC70337		0.30	<0.2	1.82	26	<10	110	<0.5	<2	0.40	<0.5	14	51	47	3.35	10
CC70338		0.34	<0.2	1.83	23	<10	110	<0.5	<2	0.43	<0.5	14	50	47	3.40	<10
CC70339		0.54	<0.2	1.89	23	<10	110	<0.5	<2	0.42	<0.5	14	51	47	3.50	10
CC70340		0.44	0.3	1.90	22	<10	110	<0.5	<2	0.41	<0.5	14	51	46	3.52	10
CC70341		0.52	0.2	1.88	22	<10	110	<0.5	2	0.40	<0.5	14	75	46	3.51	10
CC70342		0.56	0.2	1.73	27	<10	90	<0.5	<2	0.42	<0.5	16	47	47	3.31	10
CC70343		0.34	0.2	1.73	21	<10	100	<0.5	2	0.40	<0.5	13	47	43	3.27	10
CC70344		0.52	<0.2	1.77	21	<10	100	<0.5	<2	0.39	<0.5	13	48	42	3.35	10
CC70345		0.46	0.3	1.82	24	<10	100	<0.5	<2	0.44	<0.5	14	51	50	3.34	10
CC70346		0.52	0.2	1.77	27	<10	100	<0.5	<2	0.42	<0.5	14	49	45	3.36	10
CC70347		0.62	<0.2	1.92	22	<10	110	<0.5	<2	0.39	<0.5	15	69	45	3.60	10
CC70348		0.32	0.2	2.21	36	<10	110	<0.5	<2	0.35	<0.5	21	58	66	4.13	10
CC70349		0.32	<0.2	1.82	28	<10	110	<0.5	<2	0.40	<0.5	15	50	48	3.47	10
CC70350		0.40	<0.2	2.13	28	<10	130	<0.5	<2	0.38	<0.5	17	60	52	3.81	10
CC70351		0.14	<0.2	1.97	12	<10	140	<0.5	<2	0.41	<0.5	15	55	46	3.45	<10
CC70352		0.26	0.4	2.32	13	<10	190	<0.5	<2	0.54	<0.5	18	65	78	3.98	10
CC70353		0.24	0.2	2.07	10	<10	170	<0.5	<2	0.40	<0.5	14	58	45	3.45	10
CC70354		0.22	0.2	2.37	57	<10	160	<0.5	<2	0.43	<0.5	25	60	76	4.11	10
CC70355		0.30	<0.2	2.16	49	<10	150	<0.5	<2	0.40	<0.5	18	63	50	3.71	<10
CC70356		0.34	0.2	1.82	14	<10	100	<0.5	<2	0.29	<0.5	14	49	51	3.33	10
CC70357		0.46	<0.2	2.64	25	<10	270	<0.5	<2	0.39	<0.5	27	101	65	4.63	10
CC70358		0.30	0.2	1.98	63	<10	90	<0.5	<2	0.32	<0.5	21	54	73	4.00	<10
CC70359		0.54	<0.2	2.01	21	<10	80	<0.5	<2	0.34	<0.5	21	50	78	3.93	10
CC70360		0.50	<0.2	2.10	22	<10	60	<0.5	<2	0.32	<0.5	15	50	57	3.83	10



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
CC70321		<1	0.35	10	1.00	467	1	<0.01	51	1060	4	0.03	<2	6	30	<20
CC70322		<1	0.06	<10	0.29	476	1	<0.01	14	830	2	0.05	<2	1	21	<20
CC70323		<1	0.38	10	1.10	501	1	0.01	55	950	4	0.03	<2	6	34	<20
CC70324		<1	0.40	10	1.26	433	2	0.03	112	950	9	0.07	<2	7	33	<20
CC70325		<1	0.32	10	1.10	526	2	0.02	68	820	7	0.05	<2	6	29	<20
CC70326		<1	0.36	10	1.03	555	1	0.02	71	1050	7	0.05	<2	6	29	<20
CC70327		<1	0.46	10	1.12	353	2	0.02	54	1030	5	0.05	<2	6	25	<20
CC70328		<1	0.44	10	1.21	586	2	0.03	91	1030	8	0.05	<2	7	35	<20
CC70329		<1	0.49	<10	0.95	368	1	0.02	42	1000	5	0.03	<2	6	21	<20
CC70330		<1	0.26	10	1.01	487	1	0.02	54	810	7	0.06	<2	6	31	<20
CC70331		<1	0.21	10	0.95	430	1	0.02	36	950	6	0.06	<2	5	24	<20
CC70332		<1	0.14	10	0.78	427	2	0.02	40	1090	5	0.04	<2	4	24	<20
CC70333		<1	0.18	10	0.88	467	1	0.02	41	1100	5	0.04	<2	4	31	<20
CC70334		<1	0.27	10	0.91	400	2	0.02	41	1270	5	0.03	<2	5	25	<20
CC70335		<1	0.27	10	0.92	403	2	0.02	42	1190	5	0.03	<2	5	27	<20
CC70336		<1	0.30	10	0.98	428	1	0.02	44	1200	5	0.03	<2	5	26	<20
CC70337		<1	0.28	10	0.90	405	1	0.02	42	1280	5	0.03	<2	5	26	<20
CC70338		<1	0.29	10	0.92	427	1	0.02	42	1390	5	0.04	<2	4	30	<20
CC70339		<1	0.30	10	0.96	422	1	0.02	45	1340	5	0.03	<2	5	28	<20
CC70340		<1	0.29	10	0.96	446	1	0.02	44	1300	5	0.03	<2	5	28	<20
CC70341		<1	0.29	10	0.96	440	1	0.02	54	1280	6	0.03	<2	5	27	<20
CC70342		<1	0.25	10	0.85	419	1	0.02	43	1410	5	0.03	<2	4	27	<20
CC70343		<1	0.27	10	0.87	388	1	0.02	40	1390	5	0.03	<2	4	27	<20
CC70344		<1	0.29	10	0.92	402	1	0.02	40	1370	5	0.03	<2	4	26	<20
CC70345		<1	0.26	20	0.89	362	1	0.02	43	1350	7	0.05	<2	4	30	<20
CC70346		<1	0.28	10	0.90	411	1	0.02	40	1430	6	0.03	<2	4	27	<20
CC70347		<1	0.31	10	0.97	444	1	0.02	50	1360	7	0.03	<2	5	27	<20
CC70348		<1	0.22	10	1.02	544	2	0.02	55	920	8	0.08	<2	4	36	<20
CC70349		<1	0.27	10	0.92	442	2	0.02	44	1290	6	0.03	<2	4	28	<20
CC70350		<1	0.26	10	1.02	469	2	0.02	48	990	6	0.05	<2	5	29	<20
CC70351		<1	0.46	10	1.04	429	1	0.02	42	990	4	0.02	<2	6	25	<20
CC70352		<1	0.37	10	1.06	441	2	0.02	61	930	7	0.09	<2	5	41	<20
CC70353		<1	0.36	10	0.99	411	2	0.02	41	880	4	0.04	<2	5	27	<20
CC70354		<1	0.36	10	1.06	560	1	0.02	73	960	7	0.05	<2	6	30	<20
CC70355		<1	0.26	10	1.01	444	1	0.02	46	910	7	0.05	<2	5	28	<20
CC70356		<1	0.13	10	0.80	400	2	0.02	40	930	10	0.06	<2	4	24	<20
CC70357		<1	0.71	10	1.47	612	1	0.02	66	1150	6	0.05	<2	10	46	<20
CC70358		<1	0.23	10	0.92	497	2	0.02	61	1150	6	0.05	<2	5	27	<20
CC70359		<1	0.20	10	0.93	708	2	0.02	59	1250	8	0.05	<2	5	32	<20
CC70360		<1	0.20	10	0.99	531	1	0.01	47	980	7	0.03	<2	5	27	<20



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Project: JPR

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Account: ROCKHA

CERTIFICATE OF ANALYSIS VA09106140

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
CC70321		0.12	<10	<10	87	<10	101	0.005
CC70322		0.06	<10	<10	58	<10	49	<0.001
CC70323		0.13	<10	<10	95	<10	105	0.003
CC70324		0.14	<10	<10	110	<10	185	0.004
CC70325		0.12	<10	<10	92	<10	123	0.011
CC70326		0.12	<10	<10	87	<10	130	0.012
CC70327		0.12	<10	<10	89	<10	97	0.010
CC70328		0.13	<10	<10	101	<10	119	0.013
CC70329		0.12	<10	<10	77	<10	63	0.004
CC70330		0.11	<10	<10	88	<10	69	0.013
CC70331		0.11	<10	<10	86	<10	78	0.004
CC70332		0.09	<10	<10	75	<10	87	0.003
CC70333		0.08	<10	<10	66	<10	90	0.002
CC70334		0.10	<10	<10	70	<10	79	0.003
CC70335		0.10	<10	<10	73	<10	81	0.006
CC70336		0.10	<10	<10	76	<10	87	0.026
CC70337		0.10	<10	<10	71	<10	81	0.004
CC70338		0.10	<10	<10	69	<10	93	0.645
CC70339		0.10	<10	<10	70	<10	95	0.004
CC70340		0.10	<10	<10	70	<10	93	0.007
CC70341		0.10	<10	<10	70	<10	94	0.005
CC70342		0.09	<10	<10	66	<10	89	0.004
CC70343		0.09	<10	<10	65	<10	86	0.009
CC70344		0.10	<10	<10	67	<10	89	0.006
CC70345		0.09	<10	<10	68	<10	89	0.007
CC70346		0.10	<10	<10	68	<10	88	0.003
CC70347		0.10	<10	<10	72	<10	94	0.007
CC70348		0.11	<10	<10	83	<10	111	0.003
CC70349		0.10	<10	<10	69	<10	92	0.010
CC70350		0.12	<10	<10	85	<10	100	0.006
CC70351		0.11	<10	<10	75	<10	88	0.003
CC70352		0.11	<10	<10	93	<10	107	0.004
CC70353		0.11	<10	<10	82	<10	86	0.006
CC70354		0.12	<10	<10	90	<10	133	0.008
CC70355		0.11	<10	<10	86	<10	85	0.008
CC70356		0.09	<10	<10	74	<10	82	0.008
CC70357		0.16	<10	<10	126	<10	108	0.003
CC70358		0.10	<10	<10	84	<10	99	0.262
CC70359		0.09	<10	<10	76	<10	115	0.004
CC70360		0.08	<10	<10	73	<10	100	0.004



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CERTIFICATE OF ANALYSIS VA09106140

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
CC70361		0.50	<0.2	2.58	22	<10	80	0.5	<2	0.25	<0.5	19	58	63	4.45	10
CC70362		0.44	0.2	2.63	30	<10	170	<0.5	<2	0.26	<0.5	20	86	51	4.42	10
CC70363		0.52	0.2	2.53	36	<10	160	<0.5	<2	0.32	<0.5	21	79	55	4.31	10
CC70364		0.22	<0.2	2.20	73	<10	110	<0.5	<2	0.28	<0.5	19	57	59	3.92	<10
CC70365		0.22	<0.2	2.08	117	<10	110	0.5	<2	0.32	<0.5	16	48	48	3.95	10
CC70366		0.20	<0.2	2.23	21	<10	130	<0.5	<2	0.31	<0.5	16	62	57	3.91	10
CC70367		0.28	<0.2	2.72	24	<10	150	<0.5	<2	0.29	<0.5	23	72	74	4.73	10
CC70368		0.24	0.2	2.59	36	<10	140	<0.5	<2	0.34	<0.5	21	69	70	4.47	10
CC70369		0.16	<0.2	1.97	34	<10	120	<0.5	<2	0.31	<0.5	18	56	50	3.67	<10
CC70370		0.24	<0.2	2.30	38	<10	150	<0.5	<2	0.32	<0.5	20	67	62	4.10	10
CC70371		0.32	<0.2	2.37	93	<10	130	<0.5	<2	0.29	<0.5	16	65	49	4.09	10
CC70372		0.34	0.2	2.49	45	<10	150	<0.5	<2	0.28	<0.5	18	65	58	4.25	10
CC70373		0.34	<0.2	1.95	31	<10	130	<0.5	<2	0.33	<0.5	15	55	40	3.66	10
CC70374		0.26	<0.2	1.95	46	<10	100	<0.5	<2	0.25	<0.5	16	55	43	3.74	10
CC70375		0.26	<0.2	1.83	18	<10	90	<0.5	<2	0.35	<0.5	12	52	31	3.63	10
CC70376		0.18	0.4	2.02	23	<10	140	<0.5	<2	0.45	<0.5	19	53	47	3.72	10
CC70377		0.26	<0.2	2.25	62	<10	130	<0.5	<2	0.30	<0.5	15	62	47	3.98	10
CC70378		0.32	<0.2	2.31	32	<10	160	<0.5	<2	0.31	<0.5	16	65	51	4.00	10
CC70379		0.20	<0.2	2.56	27	<10	170	<0.5	2	0.28	<0.5	16	77	62	4.33	10
CC70380		0.14	<0.2	1.87	21	<10	130	<0.5	<2	0.33	<0.5	13	58	44	3.45	<10
CC70381		0.30	<0.2	2.01	21	<10	130	<0.5	<2	0.25	<0.5	14	61	52	3.67	10
CC70382		0.46	0.2	2.16	59	<10	120	<0.5	<2	0.27	<0.5	15	58	50	3.84	10
CC70383		0.22	0.2	2.20	25	<10	150	<0.5	<2	0.36	<0.5	14	64	51	3.83	10
CC70384		0.24	<0.2	2.55	35	<10	180	<0.5	<2	0.32	<0.5	18	67	50	4.24	10
CC70385		0.30	<0.2	2.36	30	<10	140	<0.5	<2	0.27	<0.5	14	65	42	3.86	10
CC70386		0.32	<0.2	2.51	42	<10	150	0.5	<2	0.39	<0.5	30	68	87	4.53	10
CC70387		0.40	<0.2	2.41	21	<10	160	<0.5	<2	0.34	<0.5	21	64	76	4.26	10
CC70388		0.52	<0.2	2.31	31	<10	140	<0.5	<2	0.25	<0.5	21	62	58	4.07	10
CC70389		0.28	<0.2	2.17	21	<10	150	<0.5	<2	0.29	<0.5	18	60	71	3.79	10
CC70390		0.36	<0.2	2.49	23	<10	170	0.5	<2	0.35	<0.5	21	63	72	4.22	10
CC70391		0.38	<0.2	2.09	27	<10	170	<0.5	<2	0.36	<0.5	16	65	45	3.53	10
CC70392		0.38	<0.2	2.38	169	<10	220	<0.5	<2	0.39	<0.5	22	116	49	3.89	10
CC70393		0.58	<0.2	1.96	19	<10	120	<0.5	<2	0.33	<0.5	12	53	38	3.43	10
CC70394		0.40	<0.2	2.07	19	<10	150	<0.5	<2	0.33	<0.5	14	56	41	3.65	<10
CC70395		0.40	<0.2	2.21	22	<10	120	<0.5	<2	0.24	<0.5	14	59	44	3.72	10
CC70396		0.38	<0.2	2.22	28	<10	130	<0.5	<2	0.26	<0.5	15	58	46	3.96	10
CC70397		0.56	<0.2	2.13	18	<10	140	<0.5	<2	0.28	<0.5	14	56	41	3.68	10
CC70398		0.48	<0.2	2.74	20	<10	140	<0.5	<2	0.26	<0.5	17	75	52	4.13	10
CC70399		0.30	<0.2	2.20	15	<10	150	<0.5	<2	0.30	<0.5	15	58	46	3.58	10
CC70400		0.46	<0.2	2.31	13	<10	170	<0.5	<2	0.34	<0.5	13	65	43	3.75	10



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CERTIFICATE OF ANALYSIS VA09106140

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
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
CC70361		<1	0.18	10	1.12	665	1	0.01	54	960	8	0.04	<2	5	23	<20
CC70362		<1	0.27	10	1.24	729	1	0.01	45	930	8	0.05	<2	5	23	<20
CC70363		<1	0.23	10	1.17	677	1	0.01	47	960	8	0.07	<2	5	27	<20
CC70364		<1	0.24	10	0.98	541	1	0.01	48	770	9	0.06	<2	4	24	<20
CC70365		<1	0.13	10	0.87	726	1	0.01	35	1000	11	0.07	<2	2	27	<20
CC70366		<1	0.23	10	1.00	515	1	0.02	45	730	5	0.07	<2	4	31	<20
CC70367		<1	0.30	10	1.20	597	1	0.01	59	780	8	0.06	<2	6	34	<20
CC70368		<1	0.21	10	1.13	677	1	0.02	49	1020	8	0.08	<2	5	32	<20
CC70369		<1	0.23	10	0.87	480	1	0.01	45	780	8	0.07	<2	4	29	<20
CC70370		<1	0.30	10	1.04	556	1	0.01	54	680	6	0.05	<2	5	30	<20
CC70371		<1	0.27	10	1.07	502	<1	0.01	46	640	7	0.04	<2	5	29	<20
CC70372		<1	0.21	10	1.04	604	1	0.01	43	960	8	0.06	<2	4	38	<20
CC70373		<1	0.24	10	0.89	504	1	0.01	38	760	7	0.04	<2	4	35	<20
CC70374		<1	0.24	10	0.87	525	1	0.01	43	540	9	0.04	2	4	28	<20
CC70375		<1	0.22	10	0.84	464	2	0.01	30	750	8	0.06	<2	3	27	<20
CC70376		<1	0.20	10	0.83	788	1	0.01	32	1580	8	0.10	2	3	51	<20
CC70377		<1	0.27	10	1.01	528	1	0.01	38	900	8	0.06	2	4	34	<20
CC70378		<1	0.31	10	1.07	574	1	0.01	41	800	8	0.06	<2	5	38	<20
CC70379		<1	0.37	10	1.22	488	1	0.01	47	680	6	0.05	<2	6	31	<20
CC70380		<1	0.25	10	0.89	389	1	0.01	33	790	6	0.07	<2	4	29	<20
CC70381		<1	0.35	10	1.05	382	1	0.01	39	500	4	0.05	<2	5	25	<20
CC70382		<1	0.24	10	0.99	517	1	0.01	38	780	7	0.05	<2	4	33	<20
CC70383		<1	0.26	10	0.97	511	1	0.02	37	1100	6	0.09	<2	4	39	<20
CC70384		<1	0.40	10	1.13	564	<1	0.01	48	700	7	0.04	<2	6	44	<20
CC70385		<1	0.25	10	1.04	437	1	0.01	36	680	7	0.05	<2	5	34	<20
CC70386		<1	0.30	10	1.17	666	1	0.02	69	970	8	0.08	<2	7	33	<20
CC70387		<1	0.25	10	1.10	456	1	0.02	54	930	8	0.08	<2	6	30	<20
CC70388		<1	0.23	10	1.01	529	1	0.01	47	880	7	0.08	<2	6	25	<20
CC70389		<1	0.29	10	0.97	363	1	0.01	51	880	6	0.06	<2	7	23	<20
CC70390		<1	0.34	10	1.11	549	<1	0.01	69	1070	7	0.04	<2	8	24	<20
CC70391		<1	0.30	10	0.99	441	1	0.01	40	890	5	0.05	<2	7	22	<20
CC70392		<1	0.36	10	1.37	587	1	0.01	57	760	7	0.06	<2	7	24	<20
CC70393		<1	0.25	10	0.88	413	<1	0.01	32	970	5	0.02	<2	6	22	<20
CC70394		<1	0.25	10	0.90	459	<1	0.01	35	900	4	0.03	<2	7	24	<20
CC70395		<1	0.24	10	0.93	556	1	0.01	35	760	5	0.03	<2	7	20	<20
CC70396		<1	0.26	10	0.94	455	1	0.02	38	910	7	0.03	<2	6	22	<20
CC70397		<1	0.21	10	0.88	511	1	0.02	31	990	5	0.06	2	6	23	<20
CC70398		<1	0.32	10	1.18	496	<1	0.02	45	1020	6	0.03	<2	8	24	<20
CC70399		<1	0.26	10	0.95	419	1	0.02	41	840	7	0.02	<2	7	22	<20
CC70400		<1	0.30	10	1.02	403	<1	0.02	38	910	5	0.03	<2	8	24	<20



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CERTIFICATE OF ANALYSIS VA09106140

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti	Ti	U	V	W	Zn	Au
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2	0.001
CC70361		0.07	<10	<10	81	<10	114	0.005
CC70362		0.10	<10	<10	101	<10	102	0.006
CC70363		0.10	<10	<10	101	<10	103	0.007
CC70364		0.08	<10	<10	82	<10	91	0.012
CC70365		0.04	<10	<10	74	<10	83	0.017
CC70366		0.10	<10	<10	91	<10	92	0.005
CC70367		0.13	<10	<10	107	<10	121	0.006
CC70368		0.10	<10	<10	98	<10	110	0.004
CC70369		0.09	<10	<10	82	<10	92	0.004
CC70370		0.12	<10	<10	93	<10	102	0.007
CC70371		0.11	<10	<10	90	<10	99	0.012
CC70372		0.09	<10	<10	92	<10	98	0.005
CC70373		0.09	<10	<10	80	<10	84	0.006
CC70374		0.10	<10	<10	79	<10	84	0.004
CC70375		0.09	<10	<10	79	<10	77	0.004
CC70376		0.05	<10	<10	77	<10	79	0.005
CC70377		0.09	<10	<10	87	<10	93	0.007
CC70378		0.10	<10	<10	89	<10	97	0.016
CC70379		0.13	<10	<10	100	<10	102	0.003
CC70380		0.09	<10	<10	83	<10	74	0.005
CC70381		0.12	<10	<10	84	<10	87	0.004
CC70382		0.08	<10	<10	81	<10	87	0.008
CC70383		0.09	<10	<10	90	<10	81	0.004
CC70384		0.13	<10	<10	95	<10	105	0.004
CC70385		0.11	<10	<10	96	<10	80	0.003
CC70386		0.12	<10	<10	104	<10	78	0.022
CC70387		0.12	<10	<10	101	<10	71	0.005
CC70388		0.11	<10	<10	97	<10	65	0.006
CC70389		0.13	<10	<10	94	<10	47	0.006
CC70390		0.13	<10	<10	97	<10	69	0.007
CC70391		0.15	<10	<10	96	<10	64	0.006
CC70392		0.18	<10	<10	101	<10	78	0.020
CC70393		0.12	<10	<10	85	<10	54	0.009
CC70394		0.12	<10	<10	89	<10	54	0.016
CC70395		0.12	<10	<10	92	<10	55	0.007
CC70396		0.11	<10	<10	89	<10	57	0.005
CC70397		0.11	<10	<10	89	<10	54	0.005
CC70398		0.14	<10	<10	103	<10	86	0.004
CC70399		0.13	<10	<10	90	<10	55	0.024
CC70400		0.14	<10	<10	96	<10	54	0.004



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CERTIFICATE OF ANALYSIS VA09106140

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
CC70401		0.54	<0.2	2.05	29	<10	100	<0.5	<2	0.38	<0.5	16	55	49	3.71	10
CC70402		0.42	<0.2	2.07	30	<10	110	<0.5	<2	0.37	<0.5	17	53	54	3.78	<10
CC70403		0.46	<0.2	1.91	32	<10	100	<0.5	<2	0.36	<0.5	15	52	45	3.53	10
CC70404		0.46	0.3	2.21	39	<10	150	<0.5	<2	0.37	<0.5	18	59	54	3.80	10
CC70405		0.52	0.2	2.02	36	<10	110	<0.5	<2	0.35	<0.5	21	53	66	3.66	10
CC70406		0.28	<0.2	2.08	39	<10	110	<0.5	<2	0.37	<0.5	17	57	51	3.71	<10
CC70407		0.28	0.2	2.42	46	<10	140	<0.5	<2	0.37	<0.5	20	65	63	4.13	10
CC70408		0.44	0.2	2.51	52	<10	150	<0.5	<2	0.38	<0.5	19	69	59	4.22	10
CC70409		0.38	<0.2	2.14	48	<10	120	<0.5	<2	0.37	<0.5	16	56	45	3.83	10
CC70410		0.40	<0.2	2.55	49	<10	170	<0.5	<2	0.39	<0.5	17	68	55	4.16	10
CC70411		0.32	0.3	2.66	95	<10	150	<0.5	<2	0.41	<0.5	20	80	60	4.40	10
CC70412		0.32	<0.2	2.33	80	<10	60	0.7	<2	0.37	<0.5	19	52	63	4.59	10
CC70413		0.40	0.2	2.81	75	<10	10	1.1	<2	0.27	<0.5	20	43	67	5.96	10
CC70414		0.34	0.2	2.39	113	<10	50	0.7	<2	0.33	<0.5	29	48	68	5.13	10
CC70415		0.26	<0.2	1.88	17	<10	130	<0.5	<2	0.36	<0.5	17	50	38	3.70	10
CC70416		0.32	<0.2	2.09	14	<10	90	<0.5	<2	0.25	<0.5	15	55	41	3.74	<10
CC70417		0.30	<0.2	2.29	18	<10	130	<0.5	<2	0.28	<0.5	20	61	51	4.29	10
CC70418		0.26	<0.2	2.11	25	<10	140	<0.5	<2	0.35	<0.5	17	58	45	3.85	10
CC70419		0.36	<0.2	1.91	47	<10	110	<0.5	<2	0.36	<0.5	20	49	62	3.83	10
CC70420		0.20	0.2	2.18	34	<10	130	<0.5	<2	0.34	<0.5	17	58	55	4.08	10
CC70421		0.38	<0.2	2.10	10	<10	310	<0.5	<2	0.29	<0.5	15	105	26	3.34	10
CC70422		0.34	<0.2	1.94	24	<10	100	<0.5	<2	0.36	<0.5	14	54	43	3.54	10
CC70423		0.50	<0.2	2.09	32	<10	130	<0.5	<2	0.40	<0.5	16	59	51	3.67	10
CC70424		0.32	0.2	2.03	36	<10	130	<0.5	<2	0.39	<0.5	16	57	50	3.51	10
CC70425		0.42	<0.2	2.07	29	<10	140	<0.5	<2	0.35	<0.5	15	59	47	3.57	10
CC70426		0.24	<0.2	1.98	33	<10	120	<0.5	<2	0.39	<0.5	14	58	44	3.54	10
CC70427		0.26	<0.2	1.89	37	<10	110	<0.5	<2	0.36	<0.5	15	54	47	3.42	10



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CERTIFICATE OF ANALYSIS VA09106140

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
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
CC70401		<1	0.27	10	1.03	486	1	0.02	43	1180	4	0.04	<2	5	28	<20
CC70402		<1	0.29	10	1.01	502	1	0.02	49	1140	6	0.04	<2	5	30	<20
CC70403		<1	0.27	10	0.96	450	<1	0.02	40	1200	5	0.03	<2	4	26	<20
CC70404		<1	0.28	10	1.02	573	<1	0.02	45	1020	8	0.04	<2	5	35	<20
CC70405		<1	0.32	10	0.94	402	<1	0.02	56	1090	5	0.02	<2	5	25	<20
CC70406		<1	0.30	10	1.02	492	<1	0.02	44	1220	5	0.03	2	5	29	<20
CC70407		<1	0.28	10	1.16	633	<1	0.02	51	1010	7	0.05	<2	6	30	<20
CC70408		<1	0.31	10	1.23	582	<1	0.02	53	980	7	0.05	<2	6	30	<20
CC70409		<1	0.38	10	1.08	464	<1	0.02	42	1080	7	0.02	<2	5	26	<20
CC70410		<1	0.32	10	1.24	549	<1	0.02	46	1040	7	0.06	<2	5	33	<20
CC70411		<1	0.38	10	1.39	551	1	0.02	53	1070	6	0.07	2	6	32	<20
CC70412		<1	0.16	10	1.13	853	1	0.02	51	1050	11	0.02	<2	6	25	<20
CC70413		<1	0.09	20	1.36	1265	<1	0.01	65	690	14	<0.01	<2	6	15	<20
CC70414		<1	0.10	10	1.06	1155	1	0.02	92	1060	14	0.02	<2	5	22	<20
CC70415		<1	0.12	10	0.84	608	1	0.02	34	960	8	0.08	<2	4	29	<20
CC70416		<1	0.20	10	0.93	531	1	0.02	35	840	7	0.05	<2	4	22	<20
CC70417		<1	0.28	10	1.05	632	1	0.02	53	730	7	0.04	<2	5	23	<20
CC70418		<1	0.24	10	0.98	524	<1	0.02	42	880	6	0.05	<2	6	28	<20
CC70419		<1	0.31	10	0.89	504	<1	0.02	54	1160	5	0.05	<2	5	34	<20
CC70420		<1	0.21	10	0.99	508	1	0.02	43	1090	8	0.07	<2	5	29	<20
CC70421		<1	0.59	10	1.44	441	<1	0.02	34	830	2	0.02	<2	6	20	<20
CC70422		<1	0.32	10	1.01	430	1	0.02	38	1130	5	0.03	<2	5	23	<20
CC70423		<1	0.30	10	1.02	467	<1	0.02	45	1250	4	0.03	<2	6	27	<20
CC70424		<1	0.29	10	0.99	482	<1	0.02	44	1220	4	0.03	<2	6	27	<20
CC70425		<1	0.33	10	1.03	573	<1	0.02	44	1120	4	0.02	<2	6	24	<20
CC70426		<1	0.30	10	0.98	435	<1	0.02	43	1390	3	0.02	<2	6	25	<20
CC70427		<1	0.26	10	0.93	406	<1	0.02	43	1090	4	0.02	<2	6	23	<20



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CERTIFICATE OF ANALYSIS VA09106140

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti	Ti	U	V	W	Zn	Au
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2	0.001
CC70401		0.10	<10	<10	76	<10	97	0.008
CC70402		0.11	<10	<10	75	<10	105	0.005
CC70403		0.09	<10	<10	71	<10	90	0.070
CC70404		0.10	<10	<10	83	<10	101	0.006
CC70405		0.11	<10	<10	76	<10	99	0.006
CC70406		0.11	<10	<10	78	<10	95	0.004
CC70407		0.11	<10	<10	89	<10	115	0.006
CC70408		0.12	<10	<10	93	<10	111	0.007
CC70409		0.11	<10	<10	78	<10	90	0.011
CC70410		0.11	<10	<10	94	<10	102	0.013
CC70411		0.13	<10	<10	97	<10	113	0.011
CC70412		0.05	<10	<10	71	<10	123	0.015
CC70413		<0.01	<10	<10	51	<10	151	0.038
CC70414		0.02	<10	<10	61	<10	173	0.023
CC70415		0.09	<10	<10	79	<10	79	0.003
CC70416		0.11	<10	<10	86	<10	88	0.004
CC70417		0.13	<10	<10	96	<10	109	0.007
CC70418		0.13	<10	<10	91	<10	94	0.206
CC70419		0.13	<10	<10	83	<10	97	0.160
CC70420		0.11	<10	<10	92	<10	101	0.007
CC70421		0.16	<10	<10	99	<10	76	0.001
CC70422		0.10	<10	<10	72	<10	87	0.003
CC70423		0.11	<10	<10	82	<10	79	0.016
CC70424		0.11	<10	<10	79	<10	76	0.006
CC70425		0.11	<10	<10	80	<10	77	0.007
CC70426		0.10	<10	<10	76	<10	74	0.005
CC70427		0.10	<10	<10	76	<10	72	0.006



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CERTIFICATE OF ANALYSIS VA09106140

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

APPENDIX IV
ROCK DESCRIPTIONS

Rock Sample DescriptionsProject: JPRProperty: JPR

Sample Number: H886335 Grid East: 345226 E Grid North: 6783958 N Type: specimen Dimension:
UTM: 345226 E UTM: 6783958 N Sample Width: Abundance:
Elevation: m

Comments: 1.5 cm wide qtz vein float with minor limonite stain. Coarse grained with minor K-spar and ~3% musc.

WP703

D. Gregory

Sample Number: H886336 Grid East: 341581 E Grid North: 6784459 N Type: specimen Dimension:
UTM: 341581 E UTM: 6784459 N Sample Width: Abundance:
Elevation: m

Comments: Coarse grained slightly glassy vein with minor limonite stain and ~2% lenticular void space and 2x1 cm across dark grey triangular cross-section crystal

WP711 (tourmaline?)

D. Gregory

Sample Number: H886337 Grid East: 345276 E Grid North: 6785611 N Type: specimen Dimension:
UTM: 345276 E UTM: 6785611 N Sample Width: Abundance:
Elevation: m

Comments: Qtz vein ~2cm wide, somewhat lassy moderately limonite stained cross-cutting foliation.

WP713

D. Gregory

Sample Number: H886338 Grid East: 345282 E Grid North: 6786012 N Type: specimen Dimension:
UTM: 345282 E UTM: 6786012 N Sample Width: Abundance:
Elevation: m

Comments: Qtz vein float with 1 cm diameter glassy qtz pods amid more opaque qtz material ~3% dark grey fine grained mineral in veinlets ~parallel to the vein.

WP721 Rare pods of pink/purple qtz? Rare sulphide casts. Minor to weak limonite stain. Slickenslides evident on the side of the vein, due to a fault.

D. Gregory

Sample Number: H886339 Grid East: 342324 E Grid North: 6783864 N Type: specimen Dimension:
UTM: 342324 E UTM: 6783864 N Sample Width: Abundance:
Elevation: m

Comments: Milky qtz vein taken along linear.

WP488

D. Gregory

Sample Number: H886342 Grid East: 345618 E Grid North: 6785827 N Type: specimen Dimension:
UTM: 345618 E UTM: 6785827 N Sample Width: Abundance:
Elevation: m

Comments: 4 cm wide qtz vein subcrop? with weak comb texture ~40% glassy-subrounded clear colourless qtz by a white milky qtz matrix. Weak to moderate limonite stain.

WP756

D. Gregory

Rock Sample DescriptionsProject: JPRProperty: JPR

Sample Number: H886343 Grid East: E Grid North: N Type: specimen Dimension:
UTM: 346948 E UTM: 6786028 N Sample Width: Abundance:
Elevation: m

Comments: Very white slightly limonite stained qtz, only vein material in area so sampled.

WP766

D. Gregory

Sample Number: H886344 Grid East: E Grid North: N Type: specimen Dimension:
UTM: 346860 E UTM: 6785290 N Sample Width: Abundance:
Elevation: m

Comments: 5 cm wide piece of qtz vein found to cut foliation. Glassy med grained aggregate of 1 cm dia qtz with minor pink mineral on vein margins.

WP770

D. Gregory

Sample Number: H886345 Grid East: E Grid North: N Type: specimen Dimension:
UTM: 347116 E UTM: 6784851 N Sample Width: Abundance:
Elevation: m

Comments: 5 cm wide piece of qtz vein found to cut foliation. Glassy med grained aggregate of 1 cm dia qtz with minor pink mineral on vein margins.

WP773

D. Gregory

Sample Number: H886347 Grid East: E Grid North: N Type: specimen Dimension:
UTM: 347662 E UTM: 6784238 N Sample Width: Abundance:
Elevation: m

Comments: Milky fine grained moderately limonite stained qtz vein with ~4% void space. Heavy. Bio and Chl form rims around voids. At least 4 cm wide.

WP778

D. Gregory

Sample Number: H886346 Grid East: E Grid North: N Type: specimen Dimension:
UTM: 347522 E UTM: 6784116 N Sample Width: Abundance:
Elevation: m

Comments: Abundant vein material. White sucrosic, occassionally glassy with 3% pits up to 3x6 mm diameter. 20% of time these pits are filled with limonite.

WP780

D. Gregory

Sample Number: H886368 Grid East: E Grid North: N Type: specimen Dimension: 10x8x8 cm
UTM: 345077 E UTM: 6785432 N Sample Width: Abundance:
Elevation: m

Comments: Quartz float cobble in talus. Minor light limonite stain on fracture surfaces

M. Kammerer

Rock Sample DescriptionsProject: JPRProperty: JPR

Sample Number: H886369 Grid East: E Grid North: N Type: specimen Dimension: 1.5x0.5 m
UTM: 345217 E UTM: 6784988 N Sample Width: Abundance:
Elevation: m

Comments: Schist boulder with cross cutting quartz vein and strong metamorphic texture. Pervasive limonite alteration.
M. Kammerer

Sample Number: H886370 Grid East: E Grid North: N Type: specimen Dimension: 20x15x10 cm
UTM: 344477 E UTM: 6786244 N Sample Width: Abundance:
Elevation: m

Comments: Limonitic schist float within a recessive zone.
M. Kammerer

Sample Number: H886320 Grid East: E Grid North: N Type: specimen Dimension: 25x15x10 cm
UTM: 345030 E UTM: 6783297 N Sample Width: Abundance:
Elevation: m

Comments: Large float boulder with minor pyrite and arsenopyrite hosted in quartz
M. Turner

Sample Number: H886321 Grid East: E Grid North: N Type: specimen Dimension:
UTM: 345087 E UTM: 6783365 N Sample Width: Abundance:
Elevation: m

Comments: Limonitic vein boulder with brown vein material with minor pyrite.
M. Turner

Sample Number: H886322 Grid East: E Grid North: N Type: specimen Dimension:
UTM: 345247 E UTM: 6783739 N Sample Width: Abundance:
Elevation: m

Comments: Limonite stained granodiorite float with minor pyrite.
M. Turner

Sample Number: H886323 Grid East: E Grid North: N Type: specimen Dimension:
UTM: 343902 E UTM: 6784754 N Sample Width: Abundance:
Elevation: m

Comments: Green, pyrite bearing quartz vein, angular and very close to source.
M. Turner

Rock Sample DescriptionsProject: JPRProperty: JPR

Sample Number: H886333 Grid East: 343598 E Grid North: 6785241 N Type: specimen Dimension:
UTM: 343598 E UTM: 6785241 N Sample Width: Abundance:
Elevation: m

Comments: Grab of sulphide rich siliceous dyke
M. Turner

Sample Number: H886334 Grid East: 343547 E Grid North: 6785192 N Type: chip Dimension:
UTM: 343547 E UTM: 6785192 N Sample Width: 1.5 m Abundance:
Elevation: m

Comments:
M. Turner

Sample Number: H886329 Grid East: 344038 E Grid North: 6784963 N Type: specimen Dimension:
UTM: 344038 E UTM: 6784963 N Sample Width: Abundance:
Elevation: m

Comments: White quartz float boulder. Similar texture to quartz sweats.
M. Turner

Sample Number: H886330 Grid East: 343125 E Grid North: 6784532 N Type: specimen Dimension:
UTM: 343125 E UTM: 6784532 N Sample Width: Abundance:
Elevation: m

Comments: White, medium to fine grained aplite dyke float.
M. Turner

Sample Number: H886331 Grid East: 342697 E Grid North: 6784605 N Type: specimen Dimension:
UTM: 342697 E UTM: 6784605 N Sample Width: Abundance:
Elevation: m

Comments: White, medium to fine grained aplite dyke float.
M. Turner

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 West Hastings Street
Vancouver, B.C. V6B 1L8

095180

Telephone: 604-688-2568

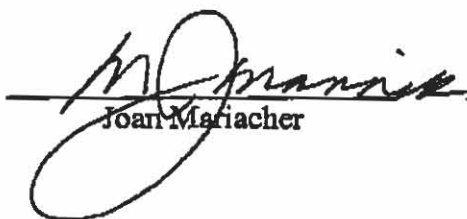
Fax: 604-688-2578

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 JPR 1-80 mineral claims
on Claim Sheet 115H/4 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.
this 18th day of March 2010.


Barrister & Solicitor

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

Statement of Expenditures
JPR 1-80 Mineral Claims
March 18, 2010

Labour

D. Eaton (geologist) Sep. 2009 – 8 hrs @ \$100/hr	\$ 840.00
M. Turner (geologist) Aug. 29 to Sep. 3, 2009 – 6 days @ \$560/day	3,528.00
Jan. to Feb. 2010 – 25 hrs @ \$75/hr	1,968.75
D. Gregory (geologist) Aug. 29 to Sep. 3, 2009 – 6 day @ \$520/day	3,276.00
Jan. to Feb. 2010 – 38 hrs @ \$65/hr	2,593.50
M. Kammerer (field assistant) Aug. 29 to Sep. 3, 2009 – 6 days @ \$440/day	2,772.00
D. Huston (expeditor) Aug. to Sep. 2009 – 9 hrs @ \$62/hr	585.90
L. Corbett (expeditor) Aug. to Sep. 2009 – 10 hrs @ \$60/hr	<u>630.00</u>
	16,194.15

Expenses (including management fee)

Field room and board – 19 days @ \$125/day	2,683.75
Trans North Helicopters – 29.9 hrs Bell 206B plus fuel	3,697.68
ALS Chemex	7,212.61
Norcan Leasing	<u>360.85</u>
	13,954.89

Total	<u>\$30,149.04</u>
-------	--------------------



REMIT PAYMENT TO:
TRANS NORTH HELICOPTERS
 TRANS NORTH HELICOPTERS AIR LTD.
 P.O. Box 8, 115 Range Rd.
 Whitehorse, Yukon Canada Y1A 8X9
 Tel: (867) 666-9177 - Fax: (867) 666-9420

Archer Cathro & Associates
 1016-510 W. Hastings Street
 Vancouver, B.C.
 V6B 1L8

ACCOUNT NUMBER	ARCHER/CAC		
INVOICE NUMBER	45508		
INVOICE DATE	29/08/09		
A/C TYPE	GPHH		
FLIGHT DATE	DAY	MONTH	YEAR
	29	08	09
PURCHASE ORDER NO.			

FUEL & OILS	TNTA FUEL USED	HRS./LITRES	FROM
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	H.S. 230.6 L.	

HOOK INSURANCE	DECLINED <input type="checkbox"/>	INT <input type="checkbox"/>	TNTA'S TARIFF LIMITS THAT TNTA'S LIABILITY FOR LOSS OR DAMAGE TO GOODS CARRIED IS 50¢ PER LB.
VALUE	ACCEPTED <input type="checkbox"/>		

FROM	TO	UP	DOWN	HOURS	REMARKS	NO. OF PASS
H.S.	Ruby CK	0949	1044	0.9		
	Gladstone	1144	018			
	Ruby / Gladstone	1319	112		customer fuel	
	H.S.				1/2 drum	

Richard Phillips *APC*
JPR

TERMS: PAYABLE UPON RECEIPT OF INVOICE. 2% INTEREST PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL OUTSTANDING AMOUNTS OVER 30 DAYS. IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.	KG TRANSPORTED	2.9	1025.-	2972	50
	HOLDING TIME:	0	/ HR.		
	FUEL	230.6	123 / LITRE	288	25
	FUEL	0	/ LITRE		
	MEALS & LODGINGS				
	OTHER				
	OTHER				
	SUB TOTAL			3260	75
	GOODS & SERVICES TAX			163	03
	REGISTRATION NO. R121488135				
	TOTAL			\$ 3423	78

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
 TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.
THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ROCKHAVEN RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

INVOICE NUMBER 1972013

BILLING INFORMATION	
Certificate:	VA09106140
Sample Type:	Soil
Account:	ROCKHA
Date:	7-OCT-2009
Project:	JPR
P.O. No.:	
Quote:	ALSC-CW09-032-F-R1
Terms:	Due on Receipt
Comments:	C1

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
147	PREP-41	Dry, Sieve (180 um) Soil	0.96	141.12
48.04	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.80	86.47
147	ME-ICP41	35 Element Aqua Regia ICP-AES	4.72	693.84
145	Au-ICP21	Au 30g FA ICP-AES Finish	10.61	1,538.45
147	GEO-AR01	Aqua regia digestion	2.35	345.45

Ruby Long
NAYD

SUBTOTAL (CAD) \$ 2,805.33
R100938885 GST \$ 140.27
TOTAL PAYABLE (CAD) \$ 2,945.60

To: ROCKHAVEN RESOURCES LTD.
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.
Bank: Royal Bank of Canada
SWIFT: ROYCCAT2
Address: Vancouver, BC, CAN
Account: 003-00010-1001098

Please Remit Payments To :

ALS Chemex

2103 Dollarton Hwy
North Vancouver BC V7H 0A7



ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
 ALS Canada Ltd
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ROCKHAVEN RESOURCES LTD.
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
 1016 - 510 W HASTINGS STREET
 VANCOUVER BC V6B 1L8

INVOICE NUMBER 1974559

BILLING INFORMATION	
Certificate:	VA09106141
Sample Type:	Soil
Account:	ROCKHA
Date:	13-OCT-2009
Project:	JPR
P.O. No.:	
Quote:	ALSC-CW09-032-F-R1
Terms:	Due on Receipt C1
Comments:	

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
148	PREP-41	Dry, Sieve (180 um) Soil	0.96	142.08
43.18	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.80	77.72
148	ME-ICP41	35 Element Aqua Regia ICP-AES	4.72	698.56
147	Au-ICP21	Au 30g FA ICP-AES Finish	10.61	1,558.87
148	GEO-AR01	Aqua regia digestion	2.35	347.80

Ruby King
NAVO

To: ROCKHAVEN RESOURCES LTD.
 ATTN: JOAN MARIACHER
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
 1016 - 510 W HASTINGS STREET
 VANCOUVER BC V6B 1L8

SUBTOTAL (CAD) \$ 2,825.83
 R100938885 GST \$ 141.29
TOTAL PAYABLE (CAD) \$ 2,967.12

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.
 Bank: Royal Bank of Canada
 SWIFT: ROYCCAT2
 Address: Vancouver, BC, CAN
 Account: 003-00010-1001098

Please Remit Payments To :
ALS Chemex
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7

19 Mar 2010 2:30PM ARCHER, CATHRO 6046882578 P.7



ALS Chemex
 EXCELLENCE IN ANALYTICAL CHEMISTRY
 ALS Canada Ltd
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ROCKHAVEN RESOURCES LTD.
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
 1016 - 510 W HASTINGS STREET
 VANCOUVER BC V6B 1L8

INVOICE NUMBER 1968731

BILLING INFORMATION	
Certificate:	VA09105681
Sample Type:	Rock
Account:	ROCKHA
Date:	9-OCT-2009
Project:	JPR <i>A</i>
P.O. No.:	
Quote:	ALSC-CW09-032-F-R1
Terms:	Due on Receipt C1
Comments:	

ANALYSED FOR			UNIT PRICE	TOTAL
QUANTITY	CODE	DESCRIPTION		
31	PREP-31A	Crush, Split, Pulverize	5.04	156.24
21.54	PREP-31A	Weight Charge (kg) - Crush, Split, Pulverize	0.52	11.20
31	LOG-21d	Sample logging - ClientBarcode Dup	0.44	13.64
31	ME-ICP41	35 Element Aqua Regia ICP-AES	4.72	146.32
31	Au-ICP21	Au 30g FA ICP-AES Finish	10.61	328.91
31	GEO-AR01	Aqua regia digestion	2.35	72.85

Rockhaven

SUBTOTAL (CAD) \$ 729.16

R100938885 GST \$ 36.46

TOTAL PAYABLE (CAD) \$ 765.62

To: ROCKHAVEN RESOURCES LTD.
 ATTN: JOAN MARIACHER
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
 1016 - 510 W HASTINGS STREET
 VANCOUVER BC V6B 1L8

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.
 Bank: Royal Bank of Canada
 SWIFT: ROYCCAT2
 Address: Vancouver, BC, CAN
 Account: 003-00010-1001098

Please Remit Payments To :
ALS Chemex
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7

19 Mar 2010 2:30PM ARCHER, CATHRO

6046882578

P.B



Office Use Only
HWO7067

QUARTZ MINING ACT FORM 12 SECTION 55

APPLICATION TO GROUP MINERAL CLAIMS

WHITEHORSE MINING DISTRICT

Office Date Stamp

I, (We) the undersigned owners or agent(s) of the owners of following mineral claims.

(Additional sheets or an appendix may be used) (Claim names and grant numbers to be listed in sequence eg. TOM 1-40, YC10001 - YC10040)

GRANT NUMBER	CLAIM NAME	MAP SHEET
	SEE ATTACHED LIST	115H/4
	ARC 1-74, DELOR 1-129,	
	MALOU 1-52, SHUTS, WASPI-58	
	+ JPR 1-84 - 398 CLAIMS	

Give notice of intention to group the said claims for the performance of work and do hereby apply under the provisions of section 55 of the Quartz Mining Act for a certificate in form 6.

I (We) hereby certify that the above claims are adjoining as shown on the attached sketch

Dated at VANCOUVER, B.C.

ARCHER, CATHRO + ASSOCIATES (NRI) LIMITED

This 10TH day of MARCH 2010

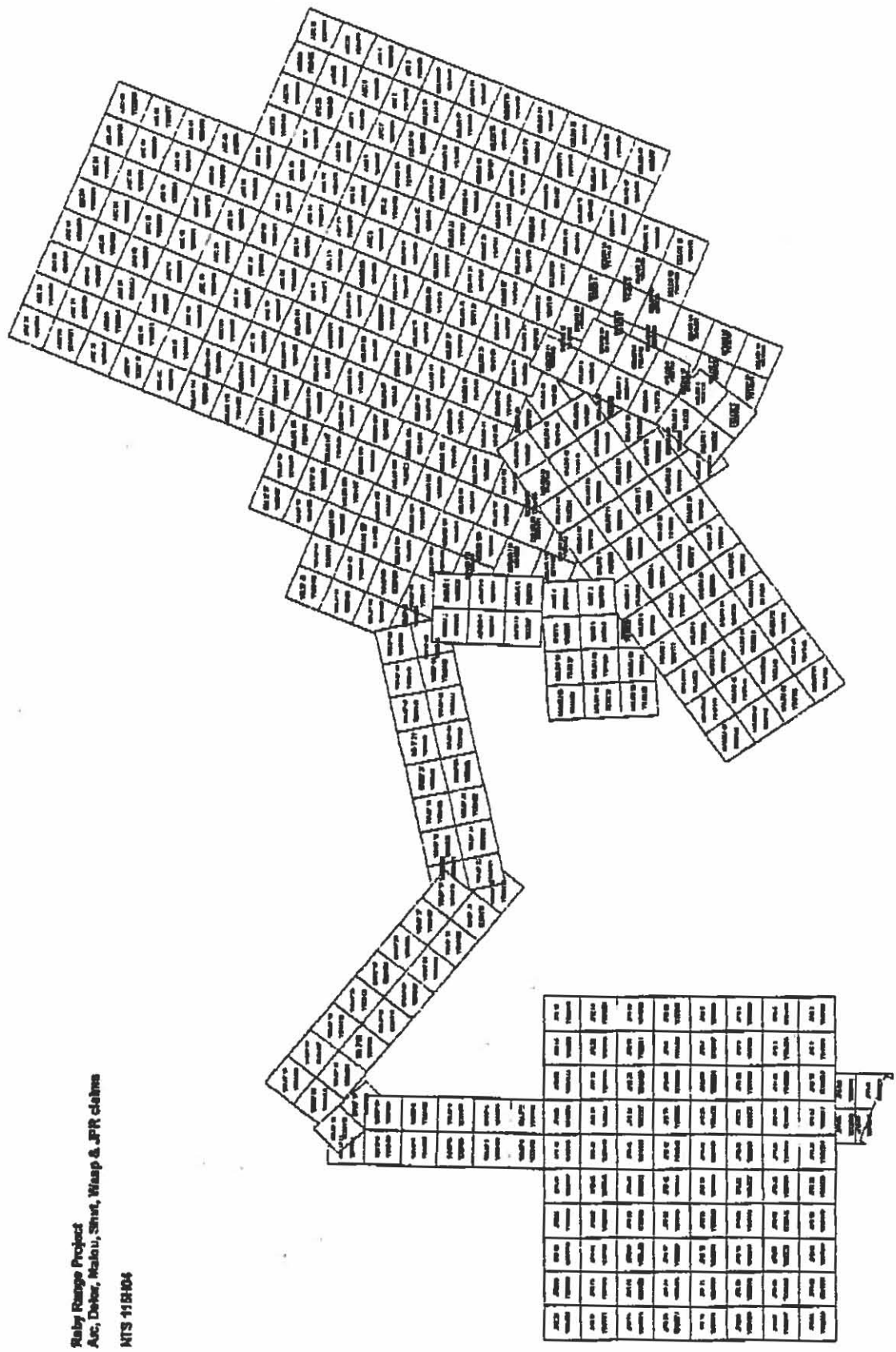
[Signature]
Applicant(s)

Access to Information and Protection of Privacy Act

The personal information requested on this form is collected under the authority of and used for the purpose of administering the Quartz Mining Act. Questions about the collection and use of this information can be directed to the Mining Records Office, Mineral Resources, Department of Energy, Mines and Resources, Yukon Government, Box 2703, Whitehorse, Yukon Territory, Y1A 2C6 (867) 667-9190

**GROUPING FOR RUBY RANGE PROJECT
ARC, DELOR, MALOU, SHUT, WASP & JPR CLAIMS**

GRANT NUMBER	CLAIM NAME
YD09459-YD09532	Arc 1-74
YB37735-YB37744	Delor 1-10
YB38302-YB38315	11-24
YB47116-YB47139	25-48
YB54418-YB54498	49-129
YB35901-YB35906	Malou 1-6
YB37727-YB37734	7-14
YB38136-YB38141	15-20
YB38218-YB38223	21-26
YB38316-YB38329	27-40
YB47140-YB47151	41-52
YB38330	Shut 5
YD09401-YD09458	Wasp 1-58
YD05501-YD05580	JPR 1-80
YD09533-YD09536	81-84



Ruby Range Project
Arc, Dohr, Malou, Smit, Wasp & JPR claims
NTS 11B104

