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ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING AND PROSPECTING

at the

SHAMROCK PROPERTY

SH 1-72 YC93676-YC93747

NTS 1150/04 and 1150/05
Latitude 63°14'N; Longitude 139°38'W

located in the

Dawson Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

ATAC RESOURCES LTD.
and
ARCUS DEVELOPMENT GROUP INC.

by

H. Smith, B.Sc. Geology, GIT
October 2009

TABLE OF CONTENTS

	<u>PAGE</u>
INTRODUCTION	1
PROPERTY LOCATION, CLAIM DATA AND ACCESS	1
HISTORY	1
GEOMORPHOLOGY	2
REGIONAL GEOLOGY	2
PROPERTY GEOLOGY	3
MINERALIZATION AND ROCK GEOCHEMISTRY	3
SOIL GEOCHEMISTRY	4
CONCLUSIONS AND RECOMMENDATIONS	4
REFERENCES	5

APPENDICES

- I STATEMENT OF QUALIFICATIONS
- II ROCK SAMPLE DESCRIPTIONS
- III CERTIFICATES OF ANALYSIS

FIGURES

<u>No.</u>	<u>Description</u>	<u>Follows Page</u>
1	Property Location	1
2	Claim Locations	1
3	Tectonic Setting	2
4	Regional Geology	2
5	Rock Sample Locations	3
6	Soil Sample Locations	4
7	Gold Geochemistry	4
8	Arsenic Geochemistry	4

INTRODUCTION

The Shamrock property is located in western Yukon and is owned 100% by ATAC Resources Ltd. subject to an option agreement with Arcus Development Group Inc. It covers the projected extension of a geological package that hosts a recent gold discovery at the White Gold property, four kilometres to the southeast. The White Gold property is owned by Underworld Resources Ltd.

This report describes an exploration program that was conducted from June 10 to 17, 2009. All work was done by Archer, Cathro & Associates (1981) Limited on behalf of ATAC and Arcus. The program consisted of geochemical sampling and prospecting. The author participated in and directed the program, and her Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Shamrock property comprises 72 contiguous mineral claims located two kilometres north of the confluence of White and Yukon rivers. The claims lie at latitude 63°14'N and longitude 139°38'W on NTS map sheets 1150/04 and 1150/05, as shown on Figure 1. They are registered with the Dawson Mining Recorder in the name of Archer Cathro, which holds them in trust for ATAC. Claim data are listed below while the locations of individual claims are illustrated on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date</u>
SH 1-72	YC93676-YC93747	April 29, 2010*

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

The work program was done from a fly camp situated on a tributary of Shamrock Creek in the western part of the property. Access to the claims was by a Bell 206B helicopter owned by Fireweed Helicopters Ltd. from a year-round base in Dawson City. Mobilization was conducted from a temporary staging area located at kilometre 91 on the South Klondike Road. This road is an extension of the Hunker Creek road system, which leaves the Klondike Highway 20 km east of Dawson City. It is usually suitable for two-wheel drive vehicles during summer and fall.

The same Bell 206B helicopter later moved the crew to the Dan Man property when work at Shamrock was finished. A Hughes 500D helicopter operated by Fireweed from a temporary base at the White Gold property was used for one day to set out the crew at the eastern edge of the property, which was too far from camp to efficiently reach on foot.

HISTORY

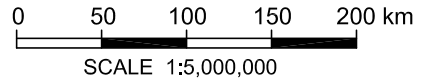
There is no recorded work in the area covered by the Shamrock property. ATAC staked the property in April 2009 and shortly thereafter optioned it to Arcus.

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ATAC RESOURCES LTD.**

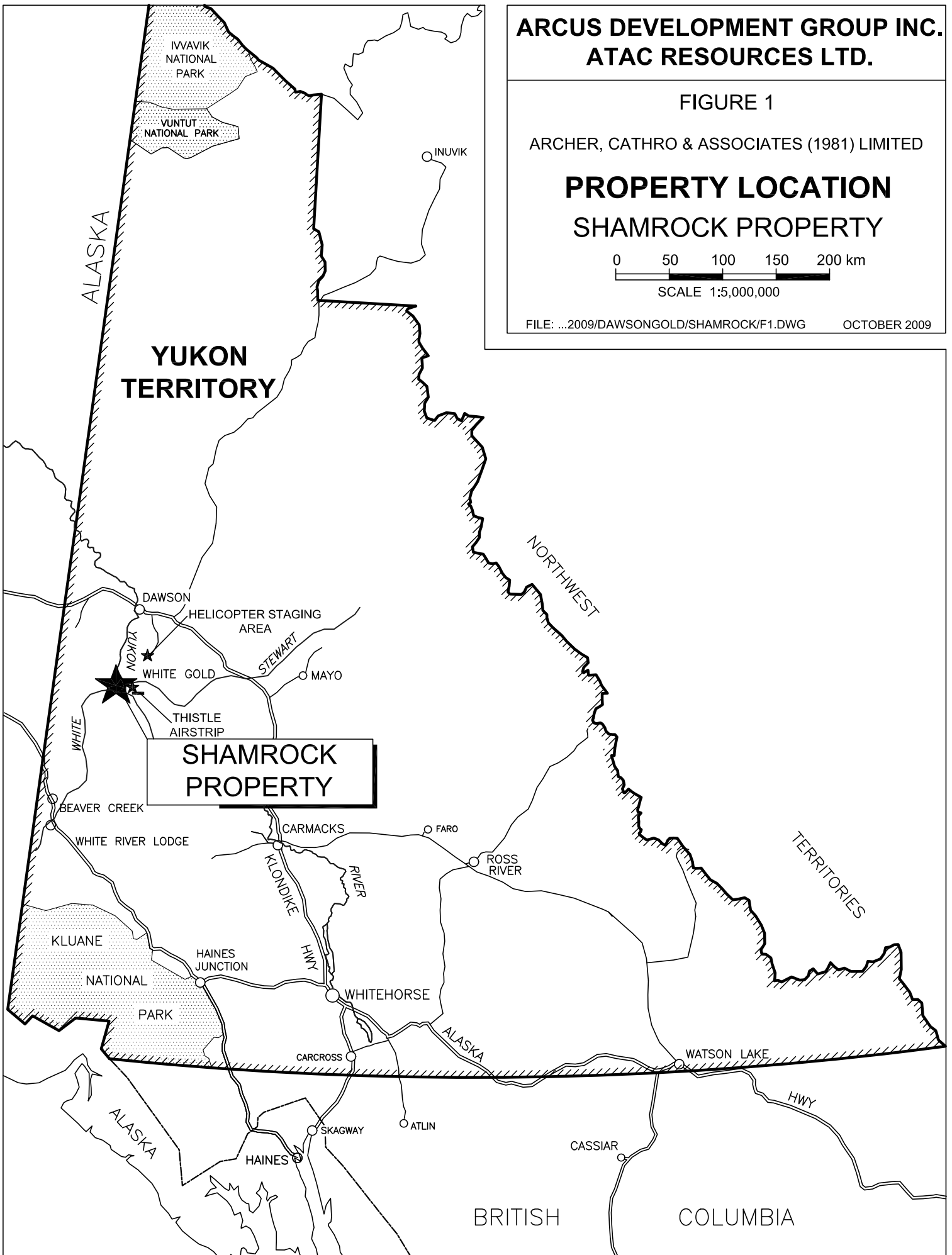
FIGURE 1

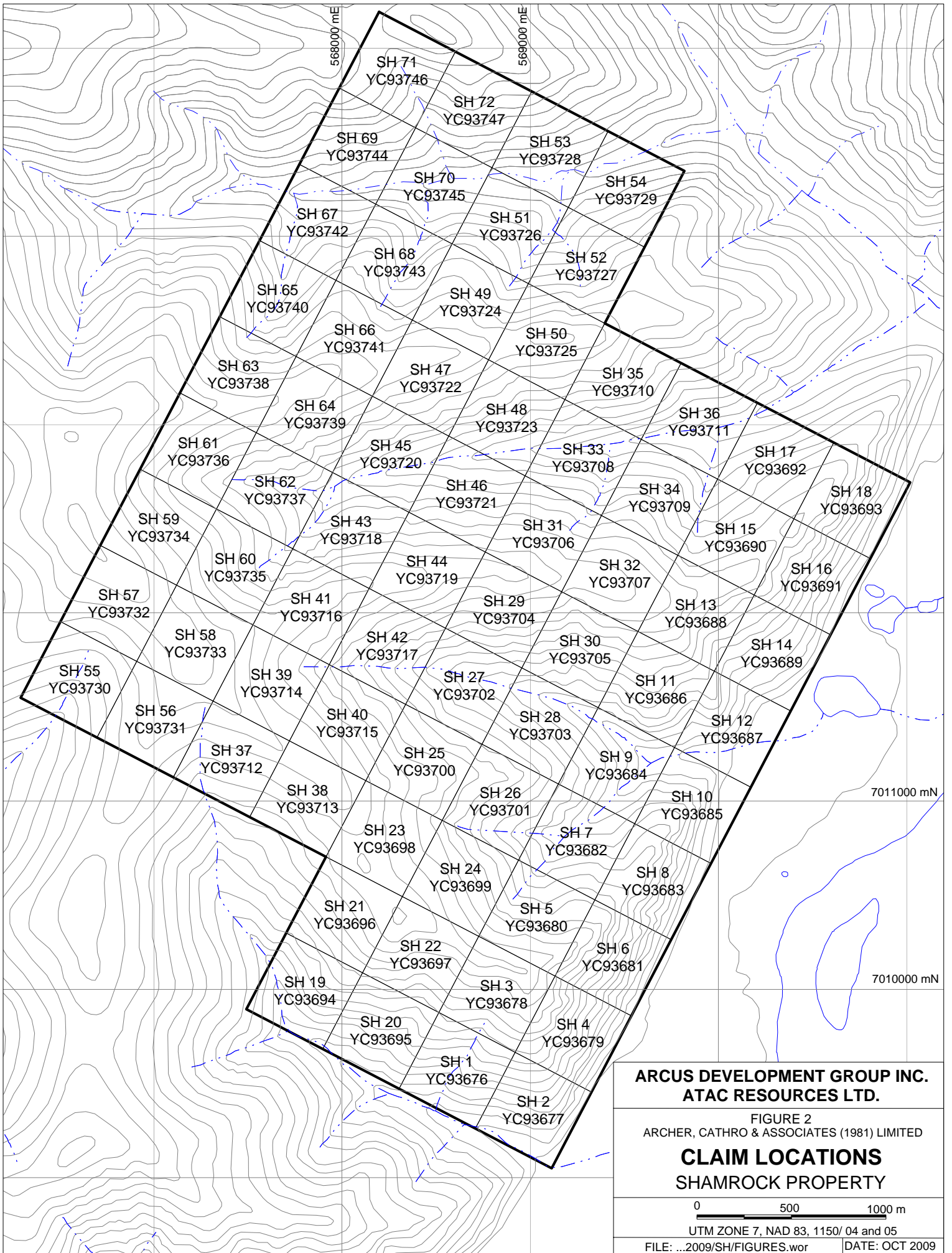
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY LOCATION
SHAMROCK PROPERTY**



FILE: ...2009/DAWSONGOLD/SHAMROCK/F1.DWG OCTOBER 2009





**ARCUS DEVELOPMENT GROUP INC.
ATAC RESOURCES LTD.**

FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**CLAIM LOCATIONS
SHAMROCK PROPERTY**

0 500 1000 m

UTM ZONE 7, NAD 83, 1150/ 04 and 05

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DATE: OCT 2009

GEOMORPHOLOGY

The claims overlie an area of gentle to moderate relief immediately west of Yukon River. Local elevations range from 360 to 1100 m above sea level. The higher parts of the property are vegetated with scattered deciduous and evergreen trees, scrub brush and a thin moss cover. Lower elevations support a mixture of dense deciduous and evergreen forest with thick buckbrush, willows and moss covered slopes. No part of the property is above tree line.

There is little outcrop on the property except in the easternmost part where cliffs form the bank of the Yukon River flood plane. Elsewhere, outcrops are confined to ridge tops and a few steep slopes alongside creeks.

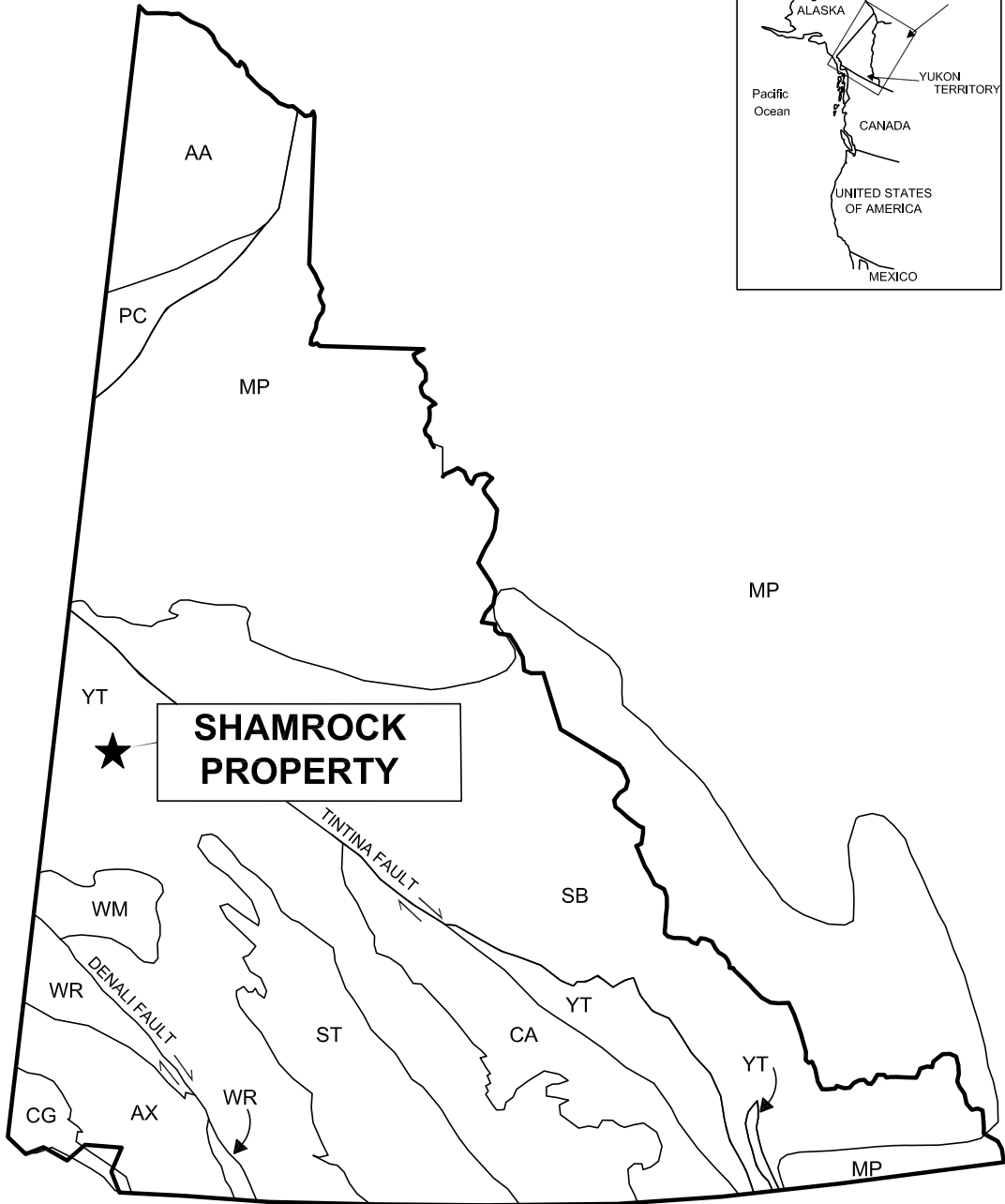
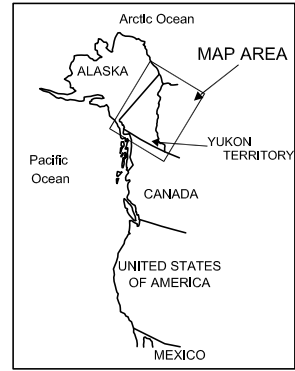
Four streams drain the property, two of which are forks of Shamrock Creek. During the work program only these forks contained flowing water. All four streams drain directly into the Yukon River.

REGIONAL GEOLOGY

The Shamrock property lies within the Yukon Tanana Terrane approximately 100 km southwest of the Tintina Fault (Figure 3). Table I contains a brief summary of the main lithologies in the area. Figure 4 illustrates the distribution of those lithologies.

Table I - Regional Lithologies (After Gordey and Makepeace, 1999)

Unit	Period	Description
ETqN	Early Tertiary	Nisling Range Suite: Series of felsic intrusives ranging in composition from granodiorite to mafic-poor granite.
uKC1	Upper Cretaceous	Carmacks Group (1): Volcanic succession dominantly olivine basalt and breccia; hornblende-feldspar porphyry and andesite and dacite flows with minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks.
uKC3	Upper Cretaceous	Carmacks Group (3): Medium bedded, poorly sorted, coarse- to fine-grained sandstone, pebble conglomerate, shale, tuff and coal; massive to thick bedded locally derived granite or quartzite pebble to boulder conglomerate.
mKgW	Mid-Cretaceous	Whitehorse Suite: Felsic intrusives ranging in composition from quartz monzonite to leucogranite.
EJgA	Early Jurassic	Aishihik Suite: Medium to coarse grained, foliated biotite-hornblende granodiorite; biotite rich gneiss; foliated hornblende diorite to monzodiorite with local potassium-feldspar megacrysts.
EJqL	Early Jurassic	Long Lake Suite: Felsic, massive to weakly foliated, fine to coarse grained biotite, biotite-muscovite and biotite-hornblende quartz monzonite to granite.



ANCESTRAL NORTH AMERICA

- MP Mackenzie Platform
- SB Selwyn Basin

TERRANES
Displaced Continental Margin

- AA Arctic Alaska
- CA Cassiar
- PC Porcupine

Pericratonic Terranes

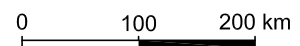
- YT Yukon-Tanana / Slide Mountain

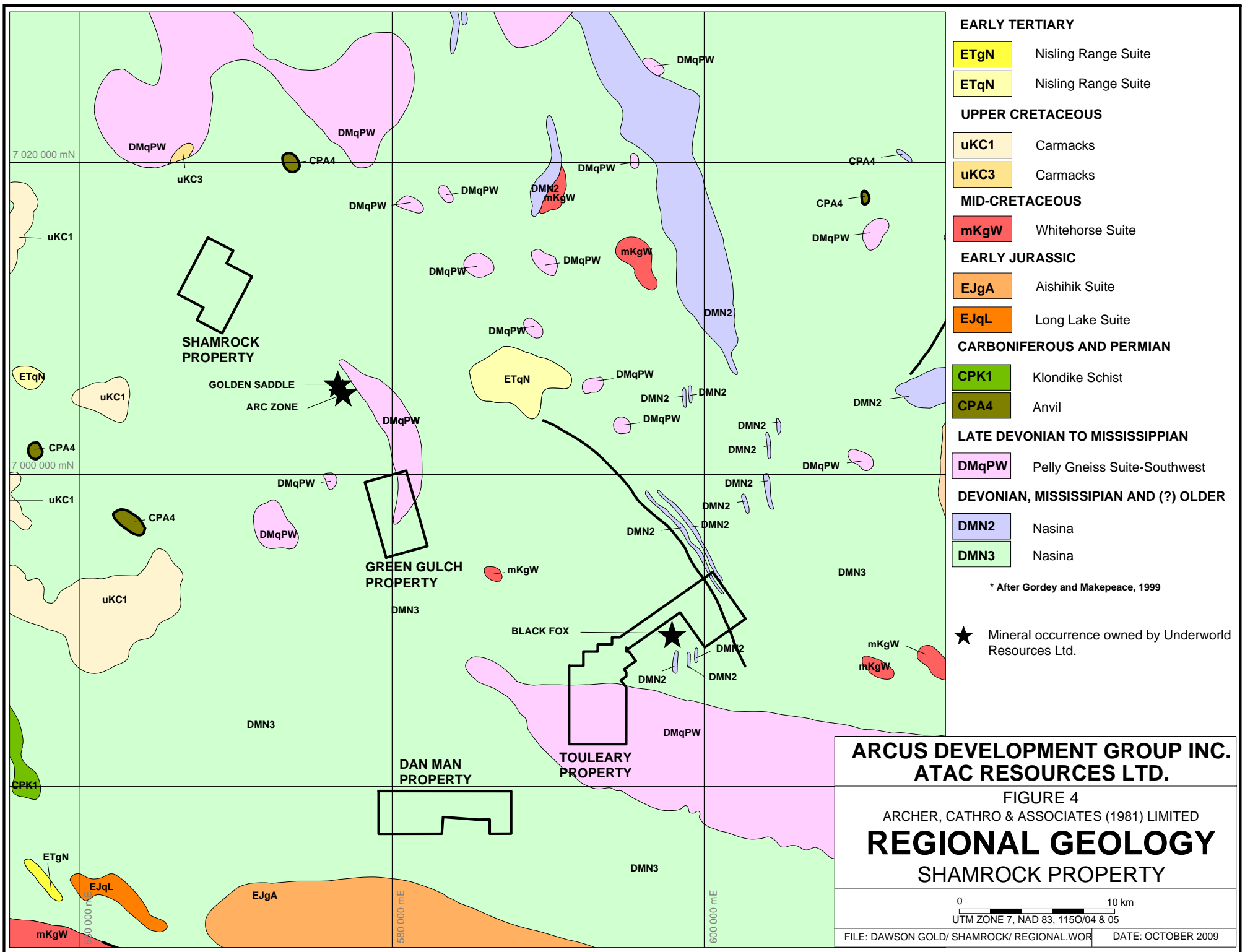
ACCRETED TERRANES

- 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
SHAMROCK PROPERTY**





		Commonly hosts potassium feldspar megacrysts.
CPK1	Carboniferous to Permian	Klondike Schist (1): Tan to rusty and black weathering muscovite and/or chloritic quartzite and quartz-muscovite-chlorite schist; quartz and/or feldspar augen-bearing quartz-muscovite (+/-chlorite) schist; includes augen gneiss and amphibolite.
CPA4	Carboniferous to Permian	Anvil Range Group (4): Dunite, peridotite, gabbro, pyroxenite, harzburgite with minor diorite, hornblendite and diabase; serpentinite, orange weathering quartz-carbonate rock with minor green chromian muscovite, talc-carbonate schist and carbonatized ultramafic rocks.
DMqPW	Late Devonian to Mississippian	Pelly Gneiss Suite: Foliated equigranular, medium grained muscovite quartz monzonite, moderately to strongly foliated K-feldspar augen quartz monzonitic to granitic gneiss.
DMgPW	Late Devonian to Mississippian	Pelly Gneiss Suite: Foliated medium grained, homogenous biotite granite gneiss to biotite or hornblende granodiorite gneiss; includes interfoliated amphibolite, quartz-mica schist and phyllites.
DMN2	Devonian, Mississippian and older (?)	Nasina Assemblage (2): Marble.
DMN3	Devonian, Mississippian and older (?)	Nasina Assemblage (3): Quartzite, micaceous quartzite, quartz-muscovite schist, and minor metaconglomerate and metagrit. May locally include significant Nisling Assemblage.

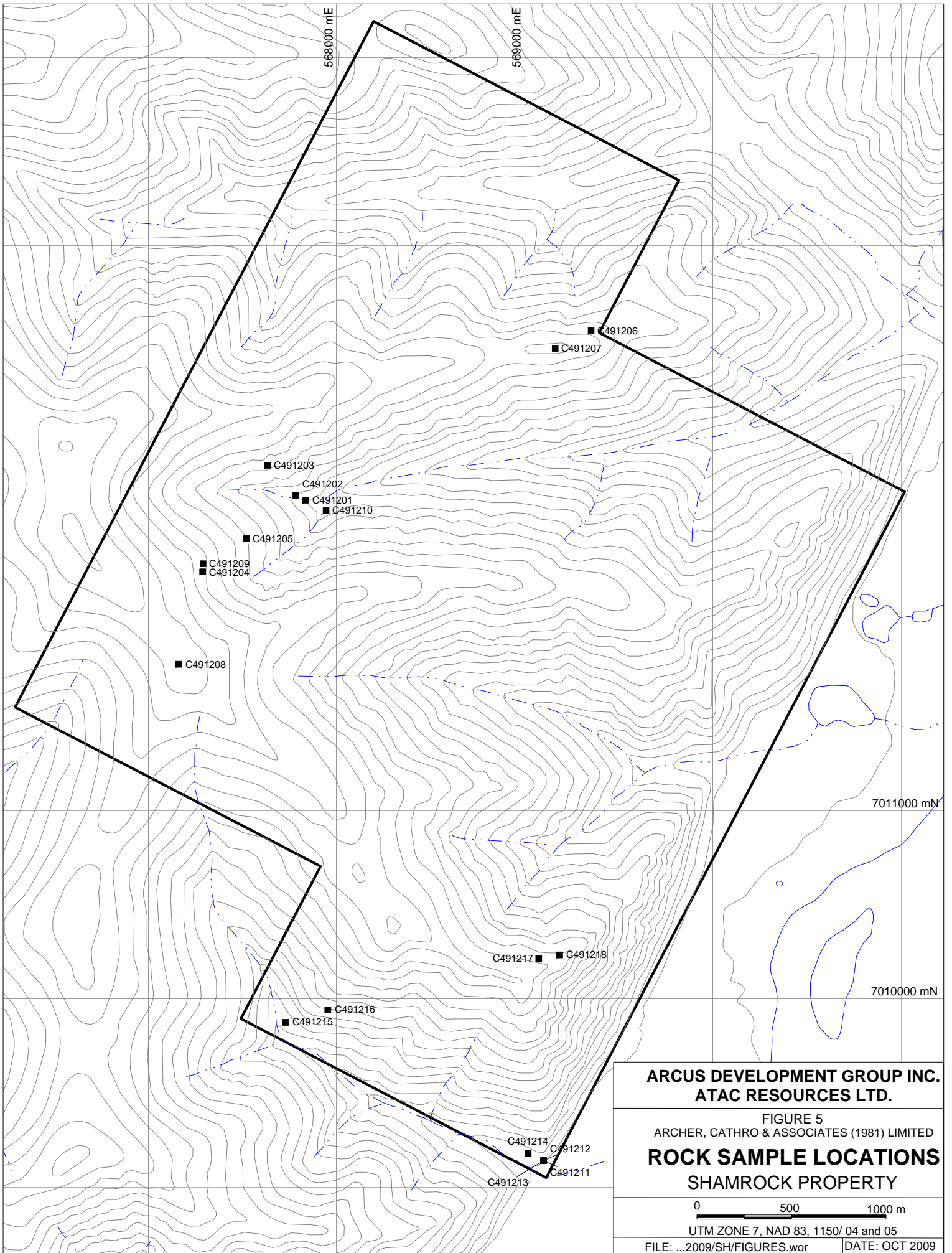
PROPERTY GEOLOGY

Due to time constraints and lack of exposure on the claims, no detail mapping was completed during the 2009 work program. Bedrock on the property belongs to the highly strained Nasina Assemblage. All exposures comprise quartzite, micaceous quartzite and quartz-muscovite schist (DMN3).

MINERALIZATION AND ROCK GEOCHEMISTRY

There are no historic mineral occurrences on the property and no showings were discovered in 2009.

Eighteen rock samples were taken during the 2009 program (Figure 5). Individual sample descriptions are located in Appendix II. Multi-element determinations (Au-ICP21 and ME-ICP41) for rock samples were carried out at ALS Chemex in North Vancouver, B.C. Each sample was dried, fine crushed to better than 70% passing -2 mm and then a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then analyzed for gold using fire assay followed by atomic absorption (AA) finish and for 34 other elements using a



nitric acid-aqua regia digestion and ICP analysis. Certificates of Analysis are provided in Appendix III.

All rock samples returned low values for gold and its pathfinder elements including arsenic and antimony.

SOIL GEOCHEMISTRY

A total of 141 soil samples were collected at 50 to 100 m spacing along lines positioned 900 m apart. In some areas, no samples were taken due to permafrost. All soil sample sites were located by means of compass and hip chain surveys with frequent checks using handheld GPS units. Sample locations were marked with half-metre wooden pickets affixed with aluminum tags on which the corresponding sample numbers were inscribed. The top of each picket was wrapped with orange flagging tape. Soil samples were taken from the bottoms of 25 to 60 cm deep holes that were dug using hand held augers. Sample material was then placed into individual pre-numbered kraft paper bags. A pebble sized rock fragment was also collected from the bottom of each soil auger hole. These fragments were placed in coin envelopes labelled with the appropriate sample numbers. They may be examined at a later date to determine local lithologies. Soil sample locations are illustrated on Figure 6.

Multi-element determinations (Au-ICP21 and ME-ICP41) for soil samples were carried out at ALS Chemex in North Vancouver, B.C. Soil samples were dried and sieved to -80 mesh. The fine fraction was then analyzed for gold and 34 other elements by the same techniques used for rock samples. Certificates of Analysis are provided in Appendix III while thematic values for gold and arsenic are shown on Figures 7 and 8.

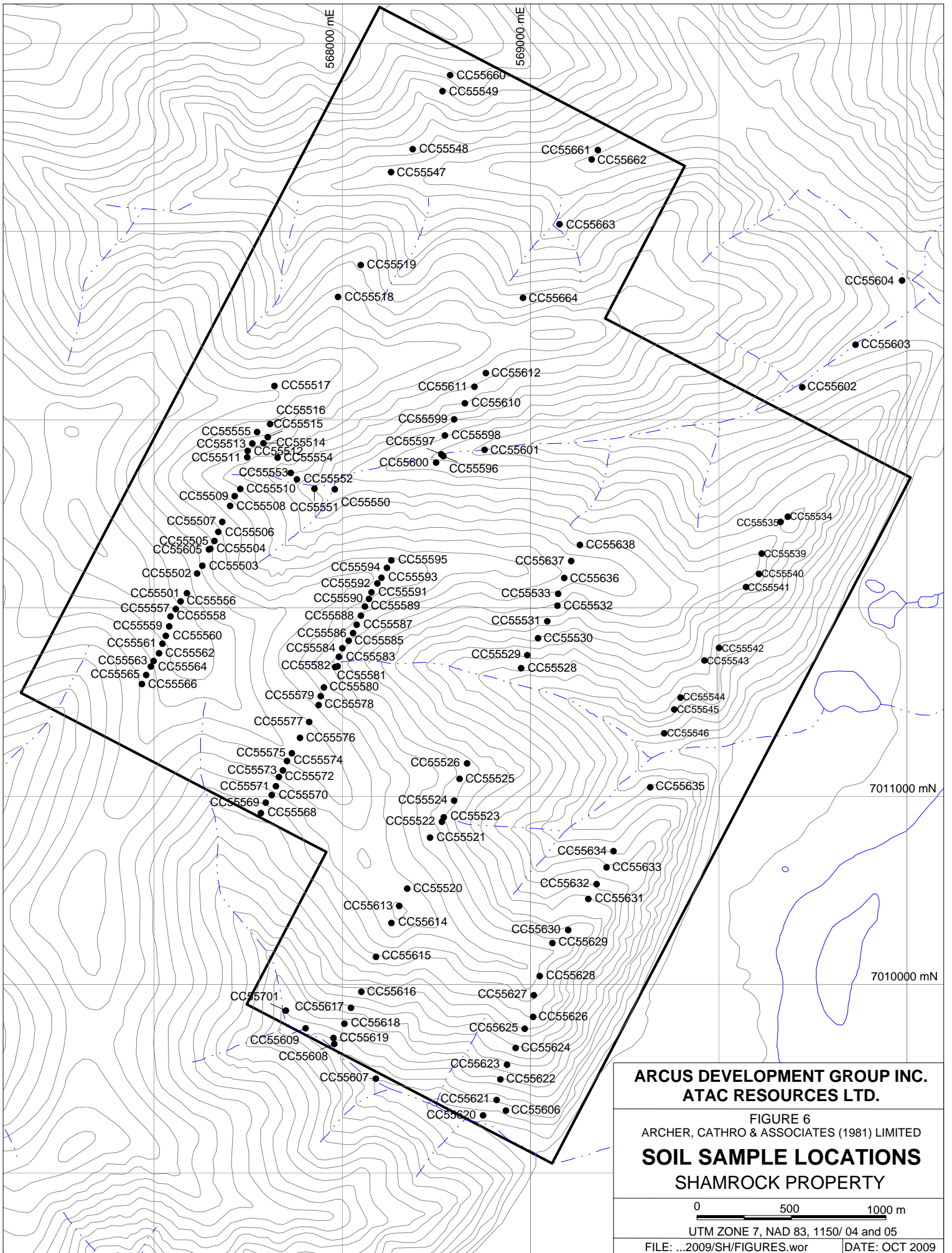
Results from soil geochemistry were generally low; however, considering the deep weathering regime in the region and the low sample density, the reconnaissance-scale sampling done during this program did yield some encouraging results. Peak values for gold and arsenic were 32 ppb and 242 ppm, respectively. No rock samples were taken in the vicinity of the anomalous soil samples.

CONCLUSIONS AND RECOMMENDATIONS

The Shamrock property is favourably situated within the same lithological package as the nearby White Gold occurrences.

Due to the short length of the 2009 program and sampling problems caused by frozen ground, only reconnaissance-level data is available. In spite of the limited coverage, the work did identify some anomalous soil sample values, and additional work is recommended. The proposed work should commence in late summer to ensure that frozen ground does not seriously hinder soil sample collection.

The next phase of work should include three types of soil sampling. The first type should fill-in sampling along the 2009 sample lines at 50 m intervals. The second type should consist of new



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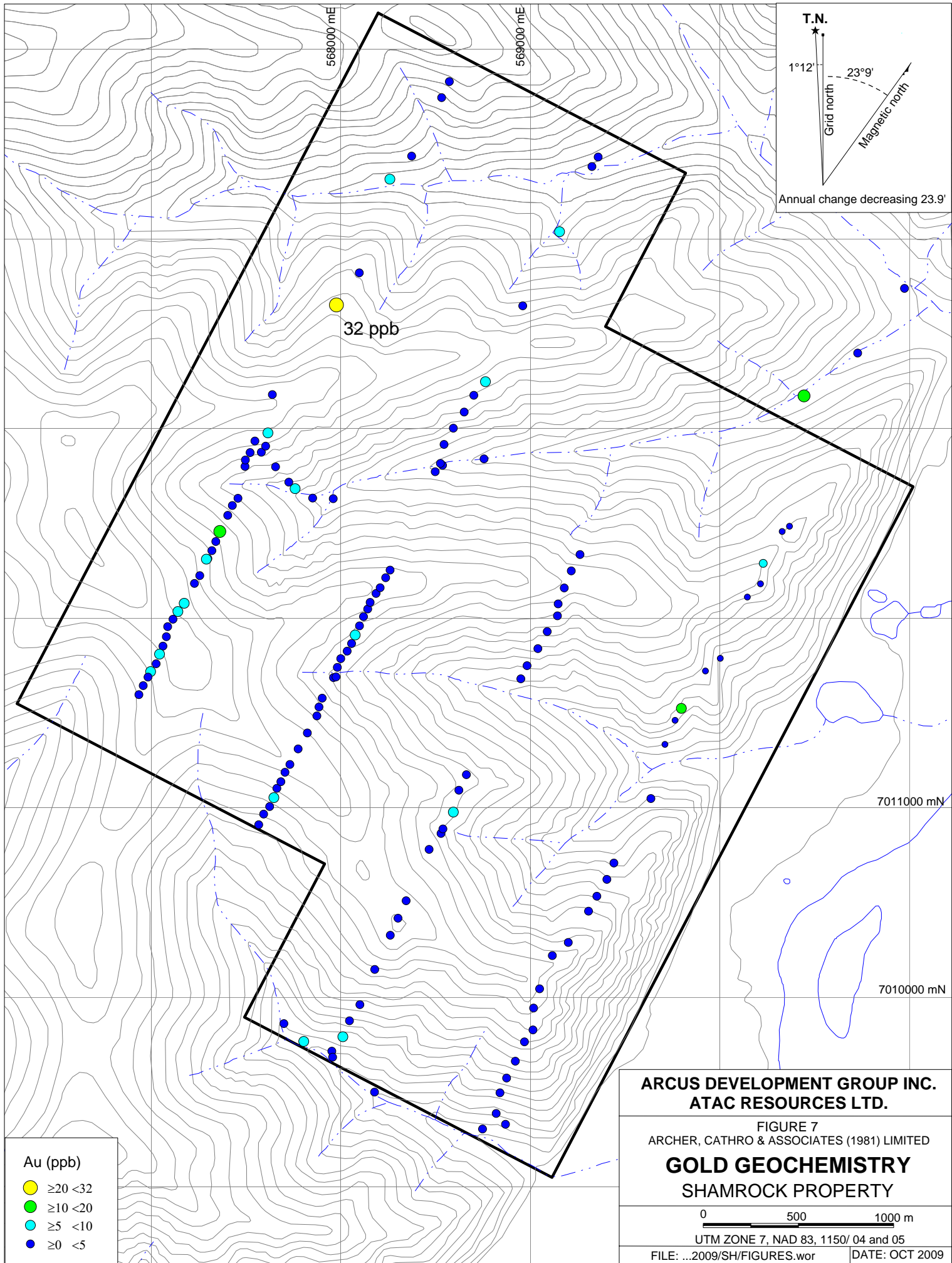
FIGURE 6
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SOIL SAMPLE LOCATIONS
 SHAMROCK PROPERTY

0 500 1000 m

UTM ZONE 7, NAD 83, 1150/ 04 and 05

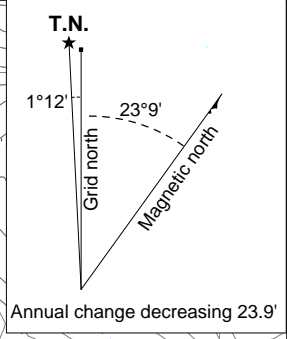
FILE: ...2009/SH/FIGURES.wor

DATE: OCT 2009



569000 mE

569000 mE



32 ppb

7011000 mN

7010000 mN

Au (ppb)	
●	≥20 <32
●	≥10 <20
●	≥5 <10
●	≥0 <5

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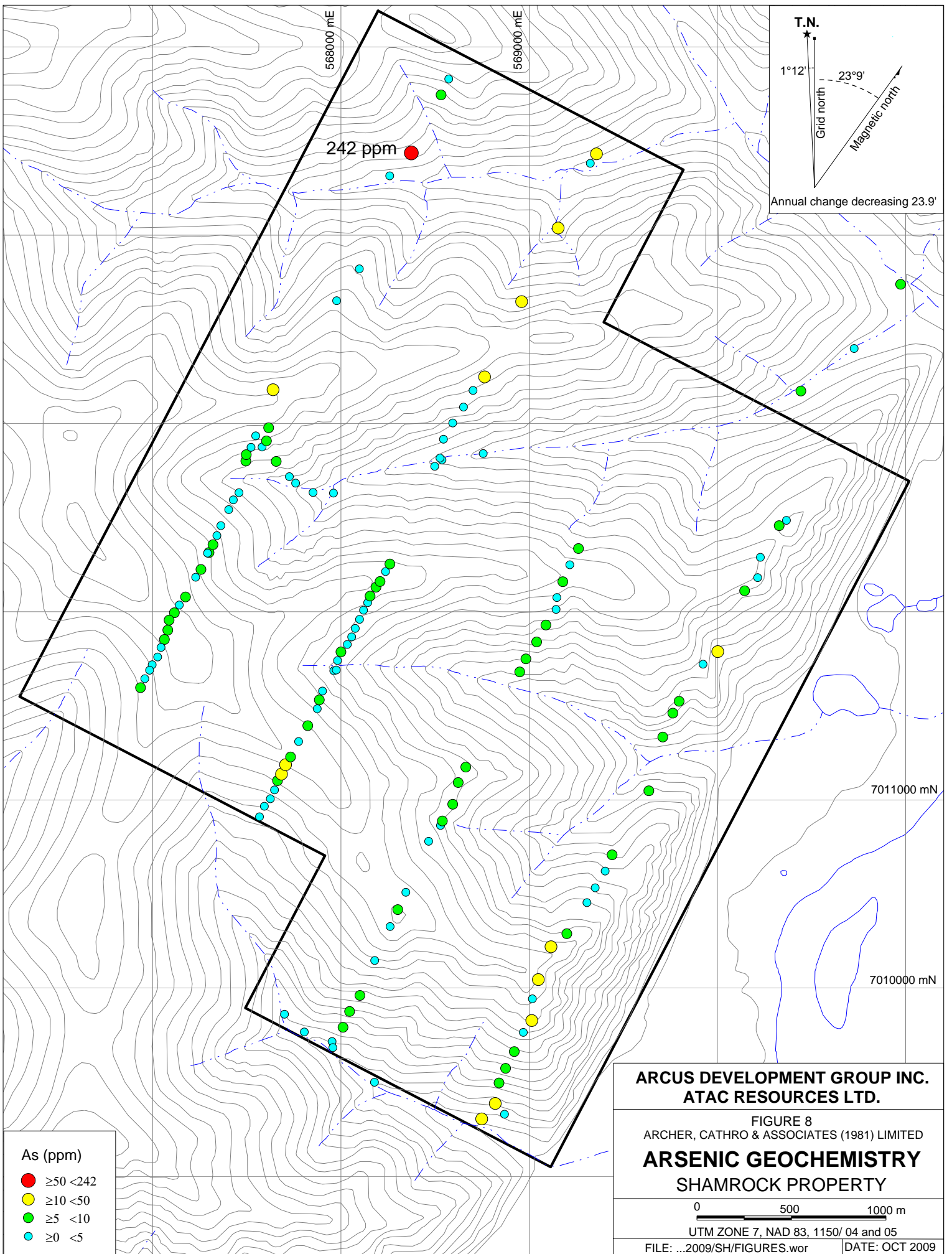
FIGURE 7
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**GOLD GEOCHEMISTRY
 SHAMROCK PROPERTY**

0 500 1000 m

UTM ZONE 7, NAD 83, 1150/ 04 and 05

FILE: ...2009/SH/FIGURES.wor DATE: OCT 2009



lines spaced 450 m apart between the existing soil lines. The final type should be done at 50 m by 50 m intervals on a grid positioned in the northwest corner of the property in the vicinity of the anomalous gold and arsenic soil sample sites.

Pending positive results from the above soil sampling program, tightly spaced grid soil sampling should also be done in other anomalous areas and deep hand pits should be dug at the most anomalous sites so that, if possible, bedrock samples can be collected.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Heather Smith B.Sc. Geology, GIT

REFERENCES

Gordey, S.P. and Makepeace, A.J. (comp.).

1999 Yukon digital geology, Geological Survey of Canada Open File D3826 and
Exploration and Geological Services Division, Yukon Region, Indian and
Northern Affairs Canada

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Heather Smith, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address at #604-175 West 1 Street, North Vancouver, British Columbia, V7M 3N9 do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B. Sc in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 150000).
4. I have personally participated in the fieldwork reported herein and have interpreted all data resulting from this work.

Heather Smith, B.Sc. Geology, GIT

APPENDIX II
ROCK SAMPLE DESCRIPTIONS

Rock Sample DescriptionsProject: DGProperty: SHAMROCK

Sample Number: C491201 Grid East: 567837 E Grid North: 7012649 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Well foliated chlorite gneiss with rusty, oxidized pyrite pits.

Sample Number: C491202 Grid East: 567783 E Grid North: 7012673 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Gneiss with chlorite and minor garnet.

Sample Number: C491203 Grid East: 567635 E Grid North: 7012834 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Biotite-chlorite gneiss with minor quartz and secondary biotite.

Sample Number: C491204 Grid East: 567289 E Grid North: 7012268 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Brown to pink, muscovite-quartz-garnet schist.

Sample Number: C491205 Grid East: 567523 E Grid North: 7012444 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Quartzite.

Sample Number: C491206 Grid East: 569353 E Grid North: 7013550 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Laminated siliceous horizon. Grey to dark grey and white bands. Minor orange and yellow surface weathering.

Rock Sample DescriptionsProject: DGProperty: SHAMROCK

Sample Number: C491207 Grid East: 569162 E Grid North: 7013454 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Siliceous horizon with weak folding. Minor brecciation on surfaces. One centimetre limonitic pits.

Sample Number: C491208 Grid East: 567162 E Grid North: 7011777 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Quartzite with minor scheelite and feldspar. Adjacent to well foliated biotite gneiss.

Sample Number: C491209 Grid East: 567291 E Grid North: 7012311 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Deep maroon coloured muscovite schist.

Sample Number: C491210 Grid East: 567945 E Grid North: 7012594 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Dark green biotite gneiss with minor epidote and chlorite. Minor rusty limonitic areas and pyrite.

Sample Number: C491211 Grid East: 569101 E Grid North: 7009140 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Biotite-chlorite-epidote schist. Fine grained with minor pyrite and limonite pits.

Sample Number: C491212 Grid East: 569101 E Grid North: 7009141 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Banded muscovite-quartz schists and biotite-chlorite schist. Pyrite as oval lenses in the mafic schist.

Rock Sample DescriptionsProject: DGProperty: SHAMROCK

Sample Number: C491213 Grid East: 569101 E Grid North: 7009141 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Quartz with minor breccia. Specular and earthy hematite. Rusty appearance.

Sample Number: C491214 Grid East: 569019 E Grid North: 7009178 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Chlorite schist with very fine silvery sulphide (pyrrhotite, specular hematite?).

Sample Number: C491215 Grid East: 567729 E Grid North: 7009875 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Chlorite schist with large quartz veins and pinkish mineral (calcite?).

Sample Number: C491216 Grid East: 567954 E Grid North: 7009941 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Pegmatitic chlorite gneiss with well formed hornblende laths.

Sample Number: C491217 Grid East: 569075 E Grid North: 7010215 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Pink, rusty micaceous quartzite.

Sample Number: C491218 Grid East: 569186 E Grid North: 7010233 N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Dirty, micaceous quartzite.

APPENDIX III
CERTIFICATES OF ANALYSIS



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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

To: ATAC RESOURCES LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981)

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VANCOUVER BC V6B 1L8

Page: 1

Finalized Date: 29-JUN-2009

Account: RCM

CERTIFICATE VA09060901

Project: DG-SH PROPERTY

P.O. No.:

This report is for 18 Rock samples submitted to our lab in Vancouver, BC, Canada on 22-JUN-2009.

The following have access to data associated with this certificate:

AL ARCHER
BILL WENGZYNOWSKI

DOUG EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

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

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

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Chemex

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Project: DG-SH PROPERTY

Page: 2 - A

Total # pages: 2 (A - C)

Finalized Date: 29-JUN-2009

Account: RCM

CERTIFICATE OF ANALYSIS VA09060901

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
C491201		0.88	0.001	<0.2	0.52	4	<10	140	<0.5	<2	0.54	<0.5	14	31	9	1.52
C491202		0.16	0.003	<0.2	1.35	5	<10	480	<0.5	<2	0.59	<0.5	6	6	7	1.73
C491203		0.16	0.001	<0.2	2.24	2	<10	1960	0.6	<2	0.64	<0.5	14	88	8	2.77
C491204		0.34	0.002	<0.2	0.84	5	<10	80	<0.5	<2	0.05	<0.5	7	11	29	2.27
C491205		0.20	0.002	<0.2	0.44	8	<10	60	0.8	<2	0.04	<0.5	1	4	3	1.00
C491206		0.32	0.004	<0.2	0.25	6	<10	30	<0.5	<2	0.05	<0.5	2	8	6	0.53
C491207		0.30	0.002	0.3	0.40	12	<10	140	<0.5	<2	0.07	<0.5	2	21	29	1.02
C491208		0.42	0.002	<0.2	0.19	3	<10	50	<0.5	2	0.02	<0.5	1	4	9	0.55
C491209		0.56	0.001	<0.2	1.37	2	<10	100	<0.5	2	0.26	<0.5	8	18	20	2.70
C491210		0.78	0.001	<0.2	1.31	4	<10	50	<0.5	<2	1.25	<0.5	24	153	4	2.08
C491211		0.40	0.001	<0.2	1.55	5	<10	50	<0.5	<2	1.11	<0.5	17	75	29	2.49
C491212		0.20	0.002	<0.2	0.76	6	<10	330	<0.5	2	0.26	<0.5	3	17	59	1.73
C491213		0.48	0.001	<0.2	0.35	60	<10	3440	<0.5	<2	0.04	<0.5	1	6	30	0.95
C491214		0.54	0.001	<0.2	0.41	3	<10	40	<0.5	<2	1.26	<0.5	1	11	3	0.30
C491215		0.26	0.001	<0.2	0.14	2	<10	200	<0.5	<2	0.23	<0.5	<1	9	5	0.36
C491216		0.38	0.001	<0.2	1.13	2	<10	310	<0.5	<2	0.89	<0.5	10	22	15	1.58
C491217		0.40	0.001	0.2	0.39	2	<10	120	<0.5	2	0.06	<0.5	4	11	55	1.27
C491218		0.36	0.002	<0.2	1.02	2	<10	100	<0.5	<2	0.08	<0.5	6	26	6	1.91



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Page: 2 - B

Total # Pages: 2 (A - C)

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CERTIFICATE OF ANALYSIS VA09060901

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
C491201		<10	<1	0.19	<10	0.47	184	<1	0.07	7	480	2	0.24	<2	3	25
C491202		10	<1	0.73	<10	1.03	697	1	0.04	11	280	<2	0.02	<2	2	17
C491203		10	<1	1.62	10	2.15	259	<1	0.09	25	1560	3	<0.01	<2	4	19
C491204		<10	<1	0.29	30	0.24	412	1	0.01	18	160	67	<0.01	<2	1	6
C491205		<10	<1	0.16	60	0.06	69	1	0.05	3	110	22	<0.01	<2	1	5
C491206		<10	<1	0.07	<10	0.16	170	<1	<0.01	6	140	4	<0.01	<2	1	3
C491207		<10	<1	0.13	10	0.22	178	1	0.01	13	290	14	0.08	<2	2	41
C491208		<10	<1	0.06	<10	0.01	86	<1	0.06	1	60	10	0.05	<2	<1	8
C491209		10	<1	0.36	10	0.53	194	<1	0.02	12	490	4	<0.01	<2	3	8
C491210		<10	<1	0.08	<10	1.14	392	<1	0.10	63	610	<2	0.04	<2	3	34
C491211		<10	<1	0.06	<10	1.24	393	<1	0.10	52	740	<2	0.01	<2	6	13
C491212		<10	<1	0.37	10	0.26	113	1	0.02	16	1060	3	0.05	<2	2	19
C491213		<10	<1	0.22	<10	0.01	43	1	0.04	6	170	9	0.02	<2	<1	150
C491214		<10	<1	0.01	<10	0.13	60	<1	0.01	8	1040	2	0.01	<2	1	59
C491215		<10	<1	0.14	<10	0.01	148	<1	0.01	1	60	<2	0.01	<2	<1	12
C491216		<10	<1	0.29	<10	0.84	229	<1	0.11	26	750	<2	0.01	<2	4	21
C491217		<10	<1	0.08	10	0.19	166	<1	<0.01	9	300	<2	<0.01	<2	1	3
C491218		<10	<1	0.57	10	0.40	204	<1	0.04	17	260	5	<0.01	<2	2	6



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Page: 2 - C

Total # Pages: 2 (A - C)

Finalized Date: 29-JUN-2009

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CERTIFICATE OF ANALYSIS VA09060901

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
C491201		<20	0.14	<10	<10	25	<10	26
C491202		<20	0.09	<10	<10	26	<10	55
C491203		<20	0.25	<10	<10	89	<10	45
C491204		20	0.01	<10	<10	8	<10	26
C491205		30	0.01	<10	<10	6	<10	32
C491206		<20	0.01	<10	<10	4	<10	26
C491207		<20	0.02	<10	<10	27	<10	68
C491208		<20	<0.01	<10	<10	1	<10	4
C491209		<20	0.15	<10	<10	39	<10	66
C491210		<20	0.17	<10	<10	45	<10	30
C491211		<20	0.25	<10	<10	55	<10	38
C491212		<20	0.03	<10	<10	26	<10	43
C491213		<20	<0.01	<10	<10	4	<10	5
C491214		<20	0.10	<10	<10	12	<10	8
C491215		<20	<0.01	<10	<10	<1	<10	2
C491216		<20	0.14	<10	<10	54	<10	29
C491217		<20	0.01	<10	<10	8	<10	15
C491218		<20	0.10	<10	<10	21	<10	36



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Finalized Date: 29-JUN-2009
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CERTIFICATE VA09060900

Project: DG-SH PROPERTY

P.O. No.:

This report is for 141 Soil samples submitted to our lab in Vancouver, BC, Canada on 22-JUN-2009.

The following have access to data associated with this certificate:

AL ARCHER
BILL WENGZYNOWSKI

DOUG EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
EXTRA-01	Extra Sample received in Shipment
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

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

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 5 (A - C)
Finalized Date: 29-JUN-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	
	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	
CC55501	0.20	0.005	<0.2	1.84	5	<10	220	<0.5	<2	0.27	<0.5	8	34	33	3.00	
CC55502	0.24	0.004	<0.2	2.11	3	<10	270	<0.5	2	0.24	<0.5	12	49	30	3.50	
CC55503	0.24	0.004	<0.2	1.81	6	<10	160	<0.5	2	0.26	<0.5	10	38	24	3.11	
CC55504	0.20	0.003	<0.2	2.22	5	<10	120	<0.5	<2	0.19	<0.5	12	54	23	3.37	
CC55505	0.24	0.002	<0.2	1.78	6	<10	130	<0.5	<2	0.28	<0.5	10	37	22	3.08	
CC55506	0.14	0.002	<0.2	1.99	4	<10	260	0.5	<2	0.33	<0.5	16	57	39	3.38	
CC55507	0.22	0.010	<0.2	1.97	4	<10	200	<0.5	2	0.26	<0.5	15	51	31	3.16	
CC55508	0.46	0.001	0.2	2.26	<2	<10	350	<0.5	<2	0.37	<0.5	16	111	53	3.49	
CC55509	0.26	0.002	<0.2	2.64	4	<10	590	0.5	<2	0.47	<0.5	18	110	34	3.82	
CC55510	0.26	0.002	<0.2	2.21	4	<10	460	<0.5	<2	0.39	<0.5	15	91	36	3.42	
CC55511	0.36	0.002	<0.2	2.50	5	<10	740	<0.5	2	0.57	<0.5	14	82	36	3.59	
CC55512	0.24	0.004	0.2	1.83	7	<10	490	<0.5	<2	0.54	<0.5	13	56	47	3.08	
CC55513	0.30	0.002	<0.2	1.96	3	<10	380	<0.5	<2	0.50	<0.5	13	76	36	3.08	
CC55514	0.20	0.002	<0.2	2.11	<2	<10	550	0.5	<2	0.39	0.7	19	75	76	3.93	
CC55515	0.26	0.003	<0.2	2.00	9	<10	360	0.5	<2	0.45	<0.5	12	49	23	3.20	
CC55516	0.20	0.007	<0.2	1.76	8	<10	310	0.5	<2	0.50	<0.5	12	77	44	2.95	
CC55517	0.30	0.003	0.3	2.34	10	<10	190	0.5	2	0.22	<0.5	10	40	23	3.37	
CC55518	0.16	0.032	<0.2	1.90	4	<10	160	0.6	2	0.31	<0.5	13	38	18	2.66	
CC55519	0.20	0.003	<0.2	2.89	<2	<10	310	0.7	<2	0.65	<0.5	17	79	27	3.70	
CC55520	0.22	0.001	<0.2	3.76	<2	<10	1070	0.9	2	0.52	<0.5	30	349	84	4.35	
CC55521	0.20	0.002	<0.2	2.17	3	<10	460	<0.5	<2	0.41	<0.5	11	63	31	2.92	
CC55522	0.30	0.003	<0.2	1.95	3	<10	350	<0.5	<2	0.42	<0.5	11	59	15	3.00	
CC55523	0.12	0.002	<0.2	1.83	6	<10	320	<0.5	<2	0.49	<0.5	15	53	26	3.07	
CC55524	0.20	0.007	<0.2	1.63	6	<10	420	0.5	<2	0.49	<0.5	11	35	21	2.70	
CC55525	0.30	0.003	<0.2	1.63	7	<10	340	<0.5	<2	0.39	<0.5	10	34	18	2.73	
CC55526	0.32	0.004	<0.2	2.52	8	<10	280	0.5	<2	0.24	<0.5	12	40	18	3.40	
CC55527	0.34	0.003	<0.2	1.80	<2	<10	270	0.5	<2	0.49	<0.5	16	56	32	3.09	
CC55528	0.24	0.002	<0.2	1.77	6	<10	230	0.5	<2	0.38	<0.5	25	121	32	3.16	
CC55529	0.20	0.003	<0.2	1.68	7	<10	240	0.5	<2	0.46	<0.5	11	42	25	2.99	
CC55530	0.20	0.001	0.5	2.17	7	<10	740	0.6	<2	0.52	1.0	13	43	31	3.23	
CC55531	0.16	0.002	0.4	2.18	6	<10	570	0.7	<2	0.65	1.2	20	40	66	3.55	
CC55532	0.20	0.001	<0.2	2.48	2	<10	390	0.6	<2	0.56	<0.5	18	182	36	3.21	
CC55533	0.22	0.003	<0.2	2.48	2	<10	420	<0.5	<2	0.59	<0.5	15	104	38	3.28	
CC55534	0.18	0.004	<0.2	1.05	<2	<10	220	<0.5	<2	0.25	<0.5	5	22	10	1.78	
CC55535	0.30	0.002	<0.2	1.77	9	<10	280	<0.5	<2	0.34	<0.5	9	33	14	2.87	
CC55539	0.20	0.006	<0.2	2.18	<2	<10	480	<0.5	<2	0.34	<0.5	14	44	23	3.35	
CC55540	0.14	0.001	<0.2	2.57	<2	<10	620	0.7	<2	0.84	<0.5	16	53	40	3.93	
CC55541	0.16	0.002	<0.2	1.92	5	<10	450	0.5	<2	0.63	<0.5	12	38	31	3.08	
CC55542	0.14	0.002	<0.2	1.76	17	<10	330	0.6	<2	0.75	<0.5	13	26	24	2.65	
CC55543	0.18	0.004	<0.2	2.39	3	<10	280	0.8	<2	0.60	<0.5	14	54	19	3.42	



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Page: 2 - B

Total # Pages: 5 (A - C)

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CERTIFICATE OF ANALYSIS VA09060900

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC55501		10	<1	0.08	20	0.60	241	1	0.01	18	530	5	<0.01	<2	3	21
CC55502		10	<1	0.19	20	0.87	291	2	0.01	33	570	5	0.03	<2	4	22
CC55503		10	<1	0.14	20	0.70	300	1	0.01	27	570	5	<0.01	<2	4	21
CC55504		10	<1	0.30	20	0.87	283	1	0.01	32	400	4	<0.01	<2	4	17
CC55505		10	<1	0.12	20	0.62	284	1	0.01	24	490	8	<0.01	<2	4	21
CC55506		10	<1	0.43	30	0.86	581	1	0.01	52	970	8	0.04	<2	4	28
CC55507		10	<1	0.26	20	0.79	460	1	0.01	39	670	8	0.03	<2	4	24
CC55508		10	<1	0.42	20	1.44	457	2	0.01	78	690	7	0.03	<2	5	26
CC55509		10	<1	0.62	20	1.75	645	2	0.01	65	930	7	0.02	<2	5	30
CC55510		10	1	0.32	10	1.25	530	2	0.01	55	710	8	0.02	<2	4	27
CC55511		10	<1	0.65	20	1.51	426	1	0.02	51	730	6	<0.01	<2	6	32
CC55512		10	1	0.18	20	0.96	414	2	0.02	50	690	8	<0.01	<2	6	30
CC55513		10	1	0.24	10	1.11	501	2	0.01	59	650	5	0.01	<2	5	33
CC55514		10	<1	0.63	20	1.62	749	8	0.01	113	970	14	0.05	<2	6	22
CC55515		10	<1	0.25	20	0.75	306	2	0.02	30	420	7	<0.01	<2	6	28
CC55516		10	<1	0.10	20	0.83	381	1	0.02	85	430	5	<0.01	<2	6	29
CC55517		10	<1	0.05	10	0.50	225	2	0.01	24	240	6	<0.01	<2	5	24
CC55518		10	<1	0.32	20	1.11	519	1	0.01	29	860	8	<0.01	<2	3	18
CC55519		10	<1	0.67	10	2.13	576	1	0.02	52	810	3	<0.01	<2	4	32
CC55520		10	<1	0.93	10	3.65	557	<1	0.02	140	1400	4	<0.01	<2	7	31
CC55521		10	<1	0.23	20	0.84	453	1	0.02	30	620	8	<0.01	<2	4	26
CC55522		10	<1	0.30	10	0.98	363	1	0.01	26	660	6	<0.01	<2	4	24
CC55523		10	<1	0.28	10	0.93	561	2	0.02	24	740	8	<0.01	<2	4	23
CC55524		<10	<1	0.09	10	0.47	695	1	0.02	25	260	4	<0.01	<2	5	30
CC55525		10	<1	0.09	10	0.50	443	1	0.02	20	230	6	<0.01	<2	4	26
CC55526		10	<1	0.06	10	0.51	295	1	0.01	28	190	7	<0.01	<2	4	21
CC55527		10	<1	0.30	10	0.72	490	1	0.02	59	280	7	<0.01	<2	6	32
CC55528		10	<1	0.25	10	0.96	377	1	0.02	135	240	6	<0.01	<2	7	24
CC55529		10	<1	0.31	10	0.58	538	1	0.02	35	410	8	<0.01	<2	6	32
CC55530		10	<1	0.15	20	0.50	590	3	0.01	31	580	18	0.01	<2	7	39
CC55531		10	1	0.31	20	0.66	1110	2	0.02	50	770	23	0.02	<2	7	47
CC55532		10	<1	0.37	20	1.56	892	2	0.02	142	350	14	<0.01	<2	6	26
CC55533		10	1	0.79	10	1.43	793	<1	0.02	52	440	18	0.02	<2	6	23
CC55534		<10	<1	0.06	10	0.29	212	<1	0.02	11	150	8	<0.01	<2	2	19
CC55535		10	<1	0.09	10	0.48	221	<1	0.01	20	220	7	<0.01	<2	3	24
CC55539		10	<1	0.55	40	0.85	1100	<1	0.02	33	740	9	<0.01	<2	4	22
CC55540		10	<1	0.85	20	1.08	1050	<1	0.02	20	1200	5	<0.01	<2	9	42
CC55541		<10	<1	0.47	20	0.81	725	<1	0.02	28	660	9	<0.01	<2	6	37
CC55542		<10	<1	0.20	30	0.55	686	<1	0.02	22	460	27	0.01	2	4	46
CC55543		10	<1	0.21	20	0.83	453	2	0.02	31	310	9	<0.01	<2	7	37



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Page: 2 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 29-JUN-2009
 Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC55501		<20	0.11	<10	<10	63	<10	58
CC55502		<20	0.18	<10	<10	76	<10	71
CC55503		<20	0.13	<10	<10	67	<10	65
CC55504		<20	0.17	<10	<10	62	<10	70
CC55505		<20	0.13	<10	<10	66	<10	63
CC55506		<20	0.13	<10	<10	65	<10	107
CC55507		<20	0.13	<10	<10	67	<10	84
CC55508		<20	0.17	<10	<10	85	<10	100
CC55509		<20	0.22	<10	<10	91	<10	103
CC55510		<20	0.17	<10	<10	87	<10	91
CC55511		<20	0.20	<10	<10	88	<10	73
CC55512		<20	0.13	<10	<10	73	<10	80
CC55513		<20	0.14	<10	<10	74	<10	73
CC55514		<20	0.12	<10	<10	95	<10	172
CC55515		<20	0.14	<10	<10	73	<10	62
CC55516		<20	0.12	<10	<10	73	<10	54
CC55517		<20	0.11	<10	<10	84	<10	48
CC55518		<20	0.14	<10	<10	45	<10	54
CC55519		<20	0.23	<10	<10	74	<10	77
CC55520		<20	0.25	<10	<10	125	<10	62
CC55521		<20	0.14	<10	<10	70	<10	67
CC55522		<20	0.15	<10	<10	68	<10	61
CC55523		<20	0.13	<10	<10	72	<10	66
CC55524		<20	0.10	<10	<10	62	<10	43
CC55525		<20	0.11	<10	<10	66	<10	43
CC55526		<20	0.10	<10	<10	74	<10	42
CC55527		<20	0.13	<10	<10	67	<10	61
CC55528		<20	0.12	<10	<10	67	<10	58
CC55529		<20	0.12	<10	<10	67	<10	73
CC55530		<20	0.08	<10	<10	82	<10	179
CC55531		<20	0.06	<10	<10	69	<10	268
CC55532		<20	0.14	<10	<10	74	<10	188
CC55533		<20	0.18	<10	<10	76	<10	72
CC55534		<20	0.09	<10	<10	52	<10	27
CC55535		<20	0.10	<10	<10	65	<10	43
CC55539		<20	0.13	<10	<10	48	<10	261
CC55540		<20	0.13	<10	<10	72	<10	102
CC55541		<20	0.11	<10	<10	61	<10	80
CC55542		<20	0.04	<10	<10	39	<10	57
CC55543		<20	0.12	<10	<10	67	<10	77



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Page: 3 - A

Total # Pages: 5 (A - C)

Finalized Date: 29-JUN-2009

Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	
Method Analyte Units LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	
CC55544	0.16	0.017	<0.2	1.86	6	<10	320	0.5	<2	0.54	<0.5	12	41	22	3.08	
CC55545	0.18	0.003	<0.2	1.88	9	<10	300	0.5	<2	0.61	<0.5	15	41	31	3.25	
CC55546	0.12	0.003	<0.2	1.95	6	<10	430	<0.5	<2	0.64	<0.5	15	50	32	3.32	
CC55547	0.10	0.006	0.3	1.80	<2	<10	320	0.5	<2	1.15	0.5	16	63	49	2.78	
CC55548	0.16	0.002	<0.2	2.27	242	<10	270	0.7	<2	0.46	0.5	18	58	53	3.76	
CC55549	0.12	0.003	<0.2	2.49	6	<10	600	0.8	<2	0.55	<0.5	18	152	33	3.61	
CC55550	0.16	0.002	<0.2	1.48	<2	<10	360	<0.5	<2	0.61	<0.5	14	62	25	2.35	
CC55551	0.22	0.003	0.2	1.54	<2	<10	370	<0.5	<2	0.59	<0.5	14	64	26	2.39	
CC55552	0.26	0.007	0.3	1.62	2	<10	340	<0.5	<2	1.08	<0.5	12	52	33	2.96	
CC55553	0.24	0.003	<0.2	1.71	<2	<10	300	<0.5	<2	0.31	<0.5	10	87	18	3.21	
CC55554	0.24	0.002	<0.2	2.45	5	<10	760	0.5	<2	0.62	<0.5	18	154	49	3.35	
CC55555	0.28	0.003	<0.2	1.56	<2	<10	220	<0.5	<2	0.37	<0.5	12	88	51	2.35	
CC55556	0.28	0.005	<0.2	2.25	2	<10	290	<0.5	<2	0.30	<0.5	13	42	27	3.54	
CC55557	0.22	0.003	<0.2	2.32	6	<10	440	<0.5	<2	0.36	<0.5	17	39	37	3.46	
CC55558	0.22	0.003	<0.2	2.60	7	<10	210	0.5	<2	0.20	<0.5	11	41	13	3.68	
CC55559	0.18	0.003	<0.2	2.19	6	<10	190	<0.5	<2	0.22	<0.5	9	35	18	3.21	
CC55560	0.24	0.002	<0.2	2.42	6	<10	220	0.5	<2	0.21	<0.5	12	38	22	3.26	
CC55561	0.26	0.006	<0.2	2.36	4	<10	230	0.6	<2	0.33	<0.5	11	40	47	3.33	
CC55562	0.24	0.002	<0.2	2.00	<2	<10	220	<0.5	<2	0.21	<0.5	10	25	31	3.04	
CC55563	0.28	0.009	<0.2	2.43	4	<10	200	<0.5	<2	0.18	<0.5	10	36	29	3.28	
CC55564	0.24	0.002	<0.2	2.06	<2	<10	240	<0.5	<2	0.29	<0.5	10	29	30	3.15	
CC55565	0.18	0.002	<0.2	1.44	<2	<10	200	<0.5	<2	0.17	<0.5	11	25	23	2.63	
CC55566	0.30	0.004	<0.2	2.52	6	<10	220	0.5	<2	0.27	<0.5	12	35	33	3.71	
CC55567	0.30	0.003	<0.2	2.52	3	<10	250	0.5	<2	0.19	<0.5	13	40	27	3.59	
CC55568	0.28	0.003	<0.2	2.27	2	<10	210	<0.5	<2	0.18	<0.5	11	43	26	3.32	
CC55569	0.28	0.003	<0.2	1.95	2	<10	250	0.5	<2	0.29	<0.5	11	44	25	3.03	
CC55570	0.22	0.003	<0.2	2.40	2	<10	240	<0.5	<2	0.29	<0.5	15	75	36	3.68	
CC55571	0.30	0.005	<0.2	2.28	2	<10	170	0.5	<2	0.34	<0.5	14	58	45	3.65	
CC55572	0.24	0.003	<0.2	1.77	9	<10	180	0.5	<2	0.28	<0.5	9	41	14	2.99	
CC55573	0.28	0.004	<0.2	2.15	11	<10	140	0.5	<2	0.24	<0.5	12	45	31	3.46	
CC55574	0.28	0.003	<0.2	2.48	11	<10	220	0.5	<2	0.19	<0.5	14	47	26	3.73	
CC55575	0.28	0.002	<0.2	3.28	8	<10	190	0.6	<2	0.40	<0.5	16	77	52	4.75	
CC55576	0.26	0.003	<0.2	1.32	<2	<10	120	<0.5	<2	0.14	<0.5	6	28	17	1.97	
CC55577	0.28	0.003	0.2	2.18	5	<10	230	<0.5	<2	0.27	<0.5	11	40	29	3.40	
CC55578	0.26	0.002	<0.2	2.22	<2	<10	200	<0.5	<2	0.35	<0.5	15	55	28	3.66	
CC55579	0.24	0.002	<0.2	1.83	6	<10	150	<0.5	<2	0.23	<0.5	15	43	24	3.23	
CC55580	0.18	0.003	<0.2	1.83	3	<10	150	<0.5	<2	0.23	<0.5	11	48	26	3.15	
CC55581	0.18	0.003	0.2	1.61	<2	<10	300	<0.5	<2	0.67	<0.5	13	73	31	2.54	
CC55582	0.16	0.003	<0.2	1.71	<2	<10	270	<0.5	<2	0.51	<0.5	12	60	27	2.71	
CC55583	0.22	0.003	<0.2	1.94	<2	<10	590	<0.5	<2	0.56	<0.5	13	103	28	2.86	



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Page: 3 - B

Total # Pages: 5 (A - C)

Finalized Date: 29-JUN-2009

Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	Method	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
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units LOR	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC55544		<10	<1	0.44	20	0.69	668	<1	0.02	28	420	9	<0.01	<2	6
CC55545		<10	<1	0.54	20	0.81	687	<1	0.02	35	630	10	<0.01	<2	6
CC55546		10	<1	0.66	20	0.95	765	<1	0.03	42	830	7	<0.01	<2	6
CC55547		<10	<1	0.19	20	0.97	542	<1	0.04	44	830	14	0.06	<2	4
CC55548		10	1	0.58	20	1.20	652	3	0.02	52	1130	33	<0.01	<2	5
CC55549		10	<1	0.69	10	2.00	412	<1	0.02	50	620	6	<0.01	<2	9
CC55550		<10	<1	0.18	20	0.80	494	<1	0.02	34	760	6	0.02	<2	3
CC55551		<10	1	0.18	20	0.80	569	<1	0.02	35	710	7	0.01	<2	3
CC55552		10	<1	0.35	40	0.86	502	<1	0.03	27	750	12	<0.01	<2	6
CC55553		10	<1	0.39	20	0.86	201	1	0.05	42	210	14	0.23	<2	4
CC55554		10	<1	0.49	10	1.54	343	<1	0.02	64	1150	7	<0.01	<2	4
CC55555		<10	<1	0.30	10	1.08	309	<1	0.02	61	350	5	<0.01	<2	5
CC55556		10	<1	0.33	10	0.96	384	<1	0.02	23	540	6	<0.01	<2	4
CC55557		10	<1	0.37	10	1.05	428	<1	0.02	23	700	5	<0.01	<2	4
CC55558		10	1	0.05	10	0.51	295	<1	0.02	20	400	10	<0.01	<2	5
CC55559		10	<1	0.04	10	0.47	225	<1	0.01	17	360	9	<0.01	<2	4
CC55560		10	<1	0.11	10	0.71	366	<1	0.02	21	400	8	<0.01	<2	5
CC55561		10	<1	0.06	20	0.78	421	<1	0.02	23	500	7	<0.01	<2	7
CC55562		10	<1	0.21	20	0.83	363	<1	0.01	17	490	3	<0.01	<2	5
CC55563		10	1	0.07	10	0.70	299	<1	0.02	21	250	6	<0.01	<2	5
CC55564		10	<1	0.14	20	0.86	332	<1	0.02	19	440	5	<0.01	<2	6
CC55565		10	1	0.18	10	0.67	604	<1	0.01	12	520	6	<0.01	<2	4
CC55566		10	1	0.10	10	0.80	346	<1	0.02	21	560	8	<0.01	<2	5
CC55567		10	<1	0.20	10	0.84	259	<1	0.02	22	300	7	<0.01	<2	5
CC55568		<10	1	0.41	20	0.84	281	<1	0.01	31	250	7	<0.01	<2	4
CC55569		<10	<1	0.11	20	0.70	242	<1	0.02	29	190	7	<0.01	<2	5
CC55570		10	1	0.73	10	1.20	383	<1	0.01	48	370	7	<0.01	<2	4
CC55571		10	<1	0.40	20	1.09	407	1	0.02	49	440	10	<0.01	<2	5
CC55572		10	<1	0.11	10	0.60	429	1	<0.01	23	190	10	0.02	<2	5
CC55573		10	<1	0.21	20	0.75	263	1	<0.01	34	290	7	0.03	<2	5
CC55574		10	<1	0.15	10	0.80	325	2	<0.01	34	240	7	0.04	2	4
CC55575		10	<1	0.45	10	1.92	859	2	<0.01	60	430	9	0.03	<2	4
CC55576		10	<1	0.19	10	0.50	169	1	<0.01	16	240	6	0.02	<2	3
CC55577		10	1	0.24	40	0.74	235	1	<0.01	29	530	7	0.03	<2	4
CC55578		10	<1	0.46	30	1.12	381	1	<0.01	45	880	7	0.07	2	3
CC55579		10	<1	0.30	20	0.85	430	1	<0.01	35	550	6	0.06	2	3
CC55580		10	<1	0.28	20	0.86	300	2	<0.01	35	530	6	0.06	2	3
CC55581		<10	<1	0.22	20	0.90	700	<1	0.02	64	840	7	0.04	<2	4
CC55582		<10	<1	0.31	20	0.91	356	<1	0.02	46	770	7	0.01	<2	4
CC55583		10	<1	0.32	10	1.20	363	<1	0.03	45	650	6	<0.01	<2	3



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Project: DG-SH PROPERTY

Page: 3 - C

Total # Pages: 5 (A - C)

Finalized Date: 29-JUN-2009

Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC55544	<20	0.12	<10	<10	57	<10	70	
CC55545	<20	0.11	<10	<10	61	<10	77	
CC55546	<20	0.14	<10	<10	58	<10	92	
CC55547	<20	0.12	<10	<10	59	<10	96	
CC55548	<20	0.11	<10	<10	70	<10	139	
CC55549	<20	0.16	<10	<10	103	<10	51	
CC55550	<20	0.11	<10	<10	50	<10	69	
CC55551	<20	0.11	<10	<10	50	<10	72	
CC55552	<20	0.14	<10	<10	64	<10	88	
CC55553	<20	0.10	<10	<10	48	<10	63	
CC55554	<20	0.20	<10	<10	83	<10	58	
CC55555	<20	0.15	<10	<10	51	<10	44	
CC55556	<20	0.18	<10	<10	69	<10	75	
CC55557	<20	0.18	<10	<10	75	<10	76	
CC55558	<20	0.11	<10	<10	72	<10	46	
CC55559	<20	0.10	<10	<10	74	<10	45	
CC55560	<20	0.11	<10	<10	69	<10	82	
CC55561	<20	0.14	<10	<10	72	<10	76	
CC55562	<20	0.15	<10	<10	50	<10	71	
CC55563	<20	0.13	<10	<10	70	<10	70	
CC55564	<20	0.15	<10	<10	61	<10	72	
CC55565	<20	0.15	<10	<10	58	<10	64	
CC55566	<20	0.12	<10	<10	76	<10	72	
CC55567	<20	0.15	<10	<10	79	<10	69	
CC55568	<20	0.16	<10	<10	58	<10	58	
CC55569	<20	0.13	<10	<10	60	<10	51	
CC55570	<20	0.20	<10	<10	53	<10	74	
CC55571	<20	0.15	<10	<10	69	<10	88	
CC55572	<20	0.11	<10	<10	65	<10	48	
CC55573	<20	0.14	<10	<10	71	<10	54	
CC55574	<20	0.14	<10	<10	81	<10	68	
CC55575	<20	0.24	<10	<10	132	<10	100	
CC55576	<20	0.13	<10	<10	46	<10	38	
CC55577	<20	0.15	<10	<10	58	<10	69	
CC55578	<20	0.18	<10	<10	62	<10	79	
CC55579	<20	0.16	<10	<10	56	<10	66	
CC55580	<20	0.15	<10	<10	60	<10	68	
CC55581	<20	0.11	<10	<10	47	<10	61	
CC55582	<20	0.12	<10	<10	50	<10	66	
CC55583	<20	0.16	<10	<10	70	<10	52	



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Project: DG-SH PROPERTY

Page: 4 - A

Total # Pages: 5 (A - C)

Finalized Date: 29-JUN-2009

Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	
	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	
CC55584	0.24	0.003	0.2	1.78	5	<10	730	<0.5	<2	0.72	<0.5	13	98	40	2.69	
CC55585	0.22	0.002	0.3	2.25	2	<10	880	<0.5	<2	0.75	<0.5	16	173	45	3.00	
CC55586	0.26	0.002	<0.2	2.12	4	<10	640	0.5	<2	0.45	<0.5	15	109	36	3.05	
CC55587	0.28	0.006	<0.2	1.69	3	<10	570	<0.5	<2	0.83	<0.5	12	74	39	2.86	
CC55588	0.24	0.002	<0.2	2.32	<2	<10	460	<0.5	<2	0.56	<0.5	16	146	30	3.26	
CC55589	0.26	0.004	<0.2	2.86	<2	<10	440	0.9	<2	0.57	<0.5	22	98	63	4.82	
CC55590	0.24	0.002	0.2	2.22	<2	<10	570	<0.5	<2	0.63	<0.5	15	125	44	3.15	
CC55591	0.28	0.001	<0.2	2.32	7	<10	510	<0.5	<2	0.47	<0.5	14	65	28	3.51	
CC55592	0.24	0.001	0.5	2.11	5	<10	340	<0.5	<2	0.18	<0.5	10	43	20	3.23	
CC55593	0.20	0.003	0.3	2.37	6	<10	210	<0.5	<2	0.17	<0.5	11	41	37	3.37	
CC55594	0.16	0.002	0.2	0.80	<2	<10	90	<0.5	2	0.13	<0.5	8	90	36	1.12	
CC55595	0.30	0.004	0.5	2.20	7	<10	300	<0.5	<2	0.34	<0.5	12	75	34	2.87	
CC55596	0.22	0.004	0.2	1.66	3	<10	330	<0.5	<2	0.72	<0.5	15	70	31	2.51	
CC55597	0.22	0.002	<0.2	1.80	2	<10	370	0.5	<2	0.72	<0.5	13	37	35	3.02	
CC55598	0.22	0.002	0.3	1.95	2	<10	230	0.6	<2	0.46	<0.5	15	39	68	3.26	
CC55599	0.24	0.004	0.3	1.93	<2	<10	310	0.5	<2	0.39	<0.5	15	38	68	3.32	
CC55600	0.16	0.004	0.2	1.58	2	<10	310	<0.5	<2	0.60	<0.5	15	76	24	2.51	
CC55601	0.20	0.004	0.2	1.66	<2	<10	300	<0.5	<2	0.78	<0.5	14	64	33	2.64	
CC55602	0.22	0.010	<0.2	1.43	8	<10	210	<0.5	<2	0.79	<0.5	12	50	22	2.61	
CC55603	0.26	0.002	<0.2	1.29	4	<10	210	<0.5	<2	0.62	<0.5	11	45	19	2.45	
CC55604	0.20	0.004	<0.2	1.39	5	<10	270	<0.5	<2	0.67	<0.5	12	49	23	2.51	
CC55605	0.22	0.008	0.2	1.59	3	<10	350	<0.5	<2	0.53	<0.5	15	78	27	2.56	
CC55606	0.20	0.003	<0.2	1.48	2	<10	270	<0.5	<2	0.89	<0.5	12	47	29	2.55	
CC55607	0.20	0.003	<0.2	1.63	<2	<10	450	<0.5	<2	1.23	<0.5	12	46	39	2.61	
CC55608	0.24	0.003	<0.2	1.49	<2	<10	260	<0.5	<2	1.02	<0.5	11	42	32	2.42	
CC55609	0.20	0.005	<0.2	1.41	<2	<10	220	<0.5	<2	0.71	<0.5	11	45	25	2.35	
CC55610	0.22	0.002	<0.2	2.52	2	<10	340	0.6	<2	0.49	<0.5	17	163	29	3.67	
CC55611	0.24	0.003	<0.2	2.00	2	<10	340	0.5	<2	0.48	<0.5	14	55	26	3.20	
CC55612	0.28	0.005	<0.2	2.05	15	<10	230	0.6	<2	0.42	<0.5	13	68	31	3.35	
CC55613	0.26	0.003	<0.2	2.64	8	<10	290	<0.5	<2	0.20	<0.5	14	131	26	3.80	
CC55614	0.28	0.002	<0.2	2.48	3	<10	590	0.5	<2	0.41	<0.5	16	156	49	3.19	
CC55615	0.22	0.004	<0.2	1.91	4	<10	400	0.5	<2	0.46	<0.5	12	41	18	3.01	
CC55616	0.26	0.003	0.2	1.79	8	<10	330	0.5	<2	0.53	<0.5	12	48	25	2.91	
CC55617	0.22	0.003	0.2	2.17	6	<10	310	0.5	<2	0.54	<0.5	14	71	37	3.24	
CC55618	0.26	0.005	<0.2	1.88	7	<10	240	0.5	<2	0.46	<0.5	13	47	26	3.15	
CC55619	0.20	0.002	<0.2	2.18	<2	<10	520	0.6	<2	0.57	<0.5	16	49	32	3.49	
CC55620	0.24	0.003	<0.2	1.96	10	<10	270	0.5	<2	2.02	<0.5	13	43	38	3.28	
CC55621	0.24	0.003	<0.2	1.91	11	<10	310	0.6	<2	0.85	<0.5	14	39	35	3.17	
CC55622	0.20	0.002	<0.2	1.84	5	<10	240	0.5	<2	0.45	<0.5	13	42	24	3.14	
CC55623	0.22	0.004	<0.2	1.92	6	<10	210	0.5	<2	0.63	<0.5	12	39	33	3.27	



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Page: 4 - B

Total # Pages: 5 (A - C)

Finalized Date: 29-JUN-2009

Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC55584		<10	<1	0.22	10	1.00	416	<1	0.03	51	840	5	<0.01	<2	5	37
CC55585		10	<1	0.51	10	1.53	430	<1	0.03	77	890	5	<0.01	<2	4	34
CC55586		10	1	0.42	10	1.07	474	<1	0.03	55	510	6	<0.01	<2	6	26
CC55587		<10	<1	0.19	10	0.95	418	<1	0.04	42	1010	5	<0.01	<2	5	43
CC55588		10	<1	0.53	10	1.65	336	<1	0.02	68	800	5	<0.01	<2	5	29
CC55589		10	1	0.31	30	2.19	840	2	0.03	72	680	10	0.02	<2	11	32
CC55590		10	<1	0.45	10	1.49	387	<1	0.03	66	880	6	<0.01	<2	4	32
CC55591		10	<1	0.47	10	1.31	306	<1	0.03	40	700	7	<0.01	<2	4	28
CC55592		10	<1	0.13	10	0.67	299	<1	0.02	31	390	8	<0.01	<2	4	16
CC55593		<10	<1	0.09	10	0.80	348	<1	0.02	36	280	10	<0.01	<2	5	16
CC55594		10	<1	0.03	10	0.37	92	<1	0.02	104	220	7	<0.01	<2	1	13
CC55595		10	1	0.15	10	1.05	436	<1	0.02	51	540	9	0.02	<2	5	26
CC55596		<10	<1	0.16	20	0.88	616	<1	0.02	40	720	6	0.03	<2	3	39
CC55597		10	<1	0.38	10	0.75	762	1	0.03	29	380	8	0.01	<2	5	46
CC55598		10	<1	0.34	10	1.13	995	1	0.02	43	600	16	0.05	<2	7	37
CC55599		10	<1	0.47	10	1.08	807	1	0.02	31	480	19	0.15	<2	6	37
CC55600		10	<1	0.17	20	0.95	557	<1	0.02	41	650	7	0.02	<2	3	32
CC55601		10	<1	0.15	20	0.87	628	<1	0.03	39	700	8	0.04	<2	4	42
CC55602		<10	<1	0.20	20	0.79	499	<1	0.02	34	820	8	0.02	<2	4	41
CC55603		<10	<1	0.19	20	0.73	425	<1	0.02	31	900	7	0.01	<2	3	33
CC55604		10	1	0.20	10	0.90	596	<1	0.02	28	810	9	0.02	<2	4	53
CC55605		10	<1	0.13	20	0.89	546	<1	0.02	47	740	7	0.02	<2	4	32
CC55606		<10	<1	0.26	20	0.82	482	<1	0.02	33	730	6	0.03	<2	4	44
CC55607		<10	<1	0.26	20	0.93	560	<1	0.03	31	710	7	0.07	<2	4	66
CC55608		<10	<1	0.25	20	0.83	419	<1	0.03	30	730	7	0.02	<2	4	53
CC55609		<10	<1	0.23	20	0.76	338	<1	0.03	29	770	5	0.01	<2	4	39
CC55610		10	<1	0.74	10	1.74	671	<1	0.02	94	530	9	<0.01	<2	8	21
CC55611		10	<1	0.43	10	0.79	1050	<1	0.03	34	380	9	<0.01	<2	6	25
CC55612		10	<1	0.38	20	0.74	346	1	0.02	47	310	9	<0.01	<2	8	26
CC55613		10	1	0.41	10	1.42	453	<1	0.02	48	440	9	<0.01	<2	4	16
CC55614		10	<1	0.45	10	1.51	276	<1	0.02	69	710	6	<0.01	<2	4	24
CC55615		<10	<1	0.25	20	0.54	529	<1	0.02	24	260	8	<0.01	2	7	28
CC55616		10	<1	0.24	10	0.68	460	<1	0.03	28	270	7	<0.01	<2	7	31
CC55617		<10	<1	0.24	20	1.06	515	<1	0.03	49	420	13	<0.01	<2	7	31
CC55618		<10	1	0.20	20	0.64	419	<1	0.03	33	390	9	<0.01	<2	8	30
CC55619		10	1	0.57	20	0.92	887	<1	0.03	41	470	7	<0.01	<2	6	33
CC55620		10	<1	0.25	20	0.88	481	<1	0.04	37	720	11	<0.01	<2	6	59
CC55621		10	1	0.23	20	0.77	543	<1	0.03	36	640	8	<0.01	<2	6	41
CC55622		<10	1	0.30	20	0.64	505	<1	0.03	30	330	8	<0.01	<2	7	30
CC55623		10	<1	0.32	30	0.71	488	<1	0.03	33	470	18	<0.01	<2	6	35



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Page: 4 - C

Total # Pages: 5 (A - C)

Finalized Date: 29-JUN-2009

Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC55584		<20	0.13	<10	<10	60	<10	50
CC55585		<20	0.17	<10	<10	67	<10	55
CC55586		<20	0.16	<10	<10	68	<10	47
CC55587		<20	0.13	<10	<10	65	<10	56
CC55588		<20	0.19	<10	<10	78	<10	62
CC55589		<20	0.18	<10	<10	109	<10	109
CC55590		<20	0.18	<10	<10	74	<10	62
CC55591		<20	0.18	<10	<10	82	<10	61
CC55592		<20	0.11	<10	<10	80	<10	94
CC55593		<20	0.09	<10	<10	71	<10	86
CC55594		<20	0.07	<10	<10	39	<10	18
CC55595		<20	0.09	<10	<10	75	<10	77
CC55596		<20	0.11	<10	<10	54	<10	81
CC55597		<20	0.12	<10	<10	61	<10	62
CC55598		<20	0.11	<10	<10	72	<10	149
CC55599		<20	0.11	<10	<10	76	<10	129
CC55600		<20	0.12	<10	<10	56	<10	69
CC55601		<20	0.11	<10	<10	58	<10	85
CC55602		<20	0.10	<10	<10	47	<10	76
CC55603		<20	0.09	<10	<10	44	<10	70
CC55604		<20	0.11	<10	<10	51	<10	69
CC55605		<20	0.11	<10	<10	59	<10	60
CC55606		<20	0.11	<10	<10	50	<10	69
CC55607		<20	0.12	<10	<10	58	<10	72
CC55608		<20	0.12	<10	<10	54	<10	70
CC55609		<20	0.12	<10	<10	51	<10	57
CC55610		<20	0.21	<10	<10	82	<10	87
CC55611		<20	0.14	<10	<10	67	<10	57
CC55612		<20	0.15	<10	<10	75	<10	54
CC55613		<20	0.18	<10	<10	85	<10	62
CC55614		<20	0.19	<10	<10	78	<10	54
CC55615		<20	0.11	<10	<10	66	<10	56
CC55616		<20	0.12	<10	<10	68	<10	50
CC55617		<20	0.14	<10	<10	77	<10	78
CC55618		<20	0.13	<10	<10	71	<10	61
CC55619		<20	0.16	<10	<10	73	<10	84
CC55620		<20	0.12	<10	<10	63	<10	80
CC55621		<20	0.12	<10	<10	65	<10	75
CC55622		<20	0.12	<10	<10	61	<10	63
CC55623		<20	0.13	<10	<10	58	<10	67



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Page: 5 - A
Total # Pages: 5 (A - C)
Finalized Date: 29-JUN-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC55624		0.22	0.003	<0.2	1.89	5	<10	250	0.5	<2	0.48	<0.5	12	37	31	3.14
CC55625		0.26	0.002	<0.2	1.97	2	<10	180	<0.5	<2	0.50	<0.5	13	33	26	3.57
CC55626		0.24	0.003	<0.2	1.41	13	<10	200	1.0	<2	0.45	<0.5	12	24	24	3.50
CC55627		0.18	0.001	0.2	2.56	2	<10	670	0.7	<2	0.53	1.1	21	74	44	4.13
CC55628		0.20	0.004	0.3	2.14	13	<10	480	0.7	<2	1.81	<0.5	22	75	64	4.25
CC55629		0.24	0.003	<0.2	1.93	19	<10	340	<0.5	<2	0.18	<0.5	8	40	32	3.10
CC55630		0.24	0.003	<0.2	2.01	6	<10	200	<0.5	<2	0.61	<0.5	12	35	23	3.32
CC55631		0.26	0.003	<0.2	1.91	4	<10	160	<0.5	<2	0.47	<0.5	14	41	28	3.45
CC55632		0.26	0.004	<0.2	1.76	4	<10	230	<0.5	<2	0.49	<0.5	11	33	23	3.08
CC55633		0.26	0.004	<0.2	2.06	4	<10	180	<0.5	<2	0.48	<0.5	14	48	25	3.58
CC55634		0.20	0.004	<0.2	2.13	6	<10	210	0.5	2	0.60	1.1	14	40	39	3.59
CC55635		0.16	0.003	<0.2	1.39	6	<10	200	<0.5	<2	0.41	<0.5	7	36	16	2.67
CC55636		0.28	0.002	<0.2	2.01	6	<10	240	0.5	<2	0.53	<0.5	10	48	20	3.27
CC55637		0.28	0.001	<0.2	2.66	4	<10	570	0.5	<2	0.54	<0.5	15	83	44	3.71
CC55638		0.34	0.004	0.2	2.09	8	<10	370	0.5	<2	0.44	<0.5	15	75	38	3.20
CC55660		0.14	0.001	<0.2	1.67	4	<10	270	0.5	<2	0.53	<0.5	11	42	16	2.91
CC55661		0.24	0.002	0.2	1.90	10	<10	460	0.6	<2	0.51	<0.5	13	42	33	3.34
CC55662		0.10	0.004	0.2	1.51	4	<10	270	<0.5	<2	0.95	0.9	14	44	40	2.55
CC55663		0.06	0.006	0.2	1.45	22	<10	230	0.5	<2	0.97	1.2	16	31	42	2.84
CC55664		0.10	0.003	1.5	2.61	27	<10	210	0.8	<2	0.38	1.1	18	61	91	4.77
CC55701		0.20	0.003	<0.2	1.48	3	<10	300	<0.5	<2	0.67	<0.5	10	48	30	2.36



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Page: 5 - B

Total # Pages: 5 (A - C)

Finalized Date: 29-JUN-2009

Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC55624		10	1	0.49	20	0.71	447	<1	0.02	30	430	10	<0.01	<2	5	29
CC55625		10	<1	0.80	40	0.75	476	<1	0.02	30	660	14	<0.01	<2	5	26
CC55626		<10	<1	0.35	40	0.38	1090	<1	0.02	27	950	20	<0.01	<2	5	25
CC55627		10	<1	0.31	20	1.08	800	<1	0.03	69	1310	12	<0.01	<2	8	37
CC55628		10	<1	0.25	20	1.10	1060	<1	0.03	84	1620	12	<0.01	<2	10	43
CC55629		10	1	0.08	20	0.45	267	1	0.02	38	460	10	<0.01	<2	4	18
CC55630		<10	<1	0.24	40	0.58	367	<1	0.02	28	320	15	<0.01	<2	5	27
CC55631		10	<1	0.39	30	0.85	340	<1	0.03	39	790	10	<0.01	<2	5	27
CC55632		<10	<1	0.26	30	0.66	370	<1	0.02	25	640	12	<0.01	<2	5	28
CC55633		10	<1	0.59	30	1.00	424	<1	0.02	35	840	12	<0.01	<2	5	25
CC55634		<10	1	0.41	50	0.93	356	<1	0.02	42	870	14	<0.01	<2	5	46
CC55635		10	<1	0.40	20	0.69	287	<1	0.02	23	490	7	<0.01	<2	4	23
CC55636		<10	<1	0.36	10	0.83	279	<1	0.02	33	830	7	<0.01	<2	5	29
CC55637		10	<1	0.72	10	1.95	554	<1	0.02	49	760	7	<0.01	<2	4	19
CC55638		10	1	0.16	20	1.06	765	<1	0.02	48	640	14	<0.01	<2	5	26
CC55660		10	<1	0.27	10	0.54	616	<1	0.03	23	180	9	<0.01	<2	6	33
CC55661		10	1	0.33	20	0.69	425	1	0.02	31	330	19	<0.01	<2	7	50
CC55662		<10	<1	0.16	20	0.79	1490	<1	0.04	36	880	11	0.04	<2	4	55
CC55663		<10	<1	0.17	20	0.70	934	1	0.04	40	870	22	0.07	<2	4	52
CC55664		10	1	0.41	20	1.60	1190	4	0.02	58	1120	53	0.10	2	5	41
CC55701		10	<1	0.22	20	0.70	392	<1	0.02	36	740	7	0.04	<2	4	34



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Page: 5 - C

Total # Pages: 5 (A - C)

Finalized Date: 29-JUN-2009

Account: RCM

CERTIFICATE OF ANALYSIS VA09060900

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC55624		<20	0.12	<10	<10	50	<10	68
CC55625		<20	0.16	<10	<10	45	<10	81
CC55626		20	0.05	<10	<10	35	<10	74
CC55627		<20	0.11	<10	<10	83	<10	244
CC55628		<20	0.09	<10	<10	72	<10	110
CC55629		<20	0.06	<10	<10	66	<10	90
CC55630		<20	0.11	<10	<10	57	<10	59
CC55631		<20	0.14	<10	<10	55	<10	79
CC55632		<20	0.13	<10	<10	51	<10	60
CC55633		<20	0.15	<10	<10	53	<10	85
CC55634		<20	0.12	<10	<10	47	<10	288
CC55635		<20	0.12	<10	<10	52	<10	56
CC55636		<20	0.14	<10	<10	67	<10	61
CC55637		<20	0.18	<10	<10	75	<10	78
CC55638		<20	0.12	<10	<10	71	<10	113
CC55660		<20	0.12	<10	<10	63	<10	46
CC55661		<20	0.11	<10	<10	69	<10	85
CC55662		<20	0.10	<10	<10	54	<10	105
CC55663		<20	0.09	<10	<10	53	<10	150
CC55664		<20	0.18	<10	<10	119	<10	452
CC55701		<20	0.10	<10	<10	47	<10	59