

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

1016 - 510 West Hastings Street

Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

ASSESSMENT REPORT

describing

**PROSPECTING, GEOLOGICAL MAPPING, SOIL SAMPLING
AND GEOPHYSICAL SURVEYS**

at the

NIKKI PROPERTY

Nikki 1-26 YC29867-YC29892

27-34 YC29969-YC29976

094527

NTS 115K/02

Latitude 62°03'N; Longitude 140°58'W

in the

Whitehorse Mining District
Southwestern Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

ATAC RESOURCES LTD.

by

W. Douglas Eaton, B.Sc. Geology
January 2005

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 16,150.00

M.B.H.
for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

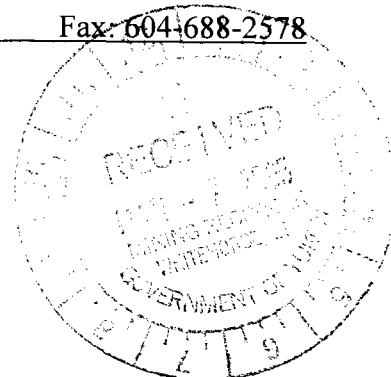
Costs associated with this report have been
approved in the amount of \$ 16,150.00
for assessment credit under Certificate of Work
No. Q1027759
A. S. Sautter
Mining Recorder
Whitehorse Mining District

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

Telephone: 604-688-2568

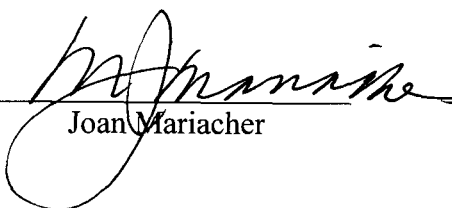
Fax: 604-688-2578

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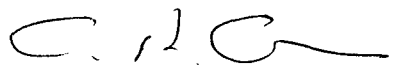
I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the Nikki 1-34
mineral claims on Claim Sheet 115K/2 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

this 21st day of February 2005

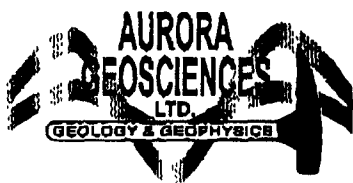

Notary Public, Yukon Territory

094527

Statement of Expenditures
Nikki 1-34 Mineral Claims
February 20, 2005

Contract Geophysical Survey

Aurora Geosciences Ltd.	\$35,903.75
Trans North Helicopters – 3 hours Bell 206B at \$925/hr plus fuel	3,064.40
Fireweed Helicopters – 4.9 hours Bell 206 at \$950/hr plus fuel	<u>5,343.13</u>
	<u>\$44,311.28</u>



Whitehorse Office
Box 31097
Whitehorse, YT Y1A 5P7
Phone: (867) 668-7672
Fax: (867) 393-3577

INVOICE

GST No.: RT886365816
File: ATAC-04-001-YT

Invoice #001
September 28th, 2004

In account with: **Archer Cathro & Associates (1981) Ltd.**
1016 - 510 West Hastings Street
Vancouver, B.C.
V6B 1L8

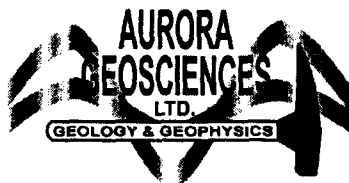
Re: Nikki Property IP Survey

Exploration Services

Mobe/Demobe	
fixed cost as per contract	\$3,500.00
IP Survey (August 25 - September 6)	
13 days @ \$1,985.00/day	<u>\$25,805.00</u>
Subtotal	\$29,305.00
GST	<u>\$2,051.35</u>
Total	\$31,356.35

*Ind 0 at 16, max
#634*

Terms: Net 15 days. Interest charged at 2% per month on overdue accounts



Whitehorse Office
Box 31097
Whitehorse, YT Y1A 5P7
Phone: (867) 668-7672
Fax: (867) 393-3577

INVOICE

GST No.: RT886365816
File: ATAC-04-001-YT

Invoice #002
December 2nd, 2004

In account with: **Archer Cathro & Associates (1981) Ltd.**
1016 - 510 West Hastings Street
Vancouver, B.C.
V6B 1L8

Re: Nikki Property IP Survey Report

Professional Services

Final Report
fixed cost as per contract \$4,250.00

Subtotal \$4,250.00

GST \$297.50

Total \$4,547.50 -

Nikki

Terms: Net 15 days. Interest charged at 2% per month on overdue accounts



TRANS NORTH HELICOPTERS
TRANS NORTH TURBO AIR LTD.

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

ACCOUNT NUMBER	ARCHATA		
INVOICE NUMBER	34056		
INVOICE DATE	31 08 04		
A/C TYPE	206-13	AIRCRAFT REGISTRATION C	6PGH
FLIGHT DATE	24	MONTH	08
	08	YEAR	04
PURCHASE ORDER NO.			

FUEL & OIL-X	TNTA FUEL USED	HRS/LITRES	FROM
☒ TMTA	☒ CUST.	1.315	

FROM	TO	UP/DOWN TIME	HOURS	REMARKS - NO. OF PASS - FREIGHT Kg
TO BULKHEAD	WINTER			
	CAMP MOUNT		1.0	
	"			
	KLOO LC			
	KILLER MOUNT			
$1.5 \text{ hr} - 1431.96 + 100.74 = 1532.70$				
$1.3 \text{ hr} - 7863.92 + 100.48 = 8064.40$				
$1.0 \text{ hr} - 954.64 + 166.85 = 1121.49$				
(5.5)				

Please Remit To:
Trans North Helicopters
PO Box #8
Whitehorse, Yukon
Y1A 5X9

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.

X
CHARTERER'S SIGNATURE
CHARTERER'S NAME (PRINTED)
INITIALS
PILOT'S SIGNATURE
ENGINEER'S NAME

5.5	@	925.00	5087.50
	@		
HOLDING TIME:	@	/ HR.	
FUEL	@	1.10 / LITRE	163.02
FUEL	@	/ LITRE	
MEALS & LODGINGS			
OTHER			
OTHER			
SUB TOTAL			5250.52
GOODS & SERVICES TAX			
REGISTRATION NO. R121483135			367.54

TOTAL \$ 5618.06

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT



FLIGHT TICKET / INVOICE

WHITEHORSE

DAWSON CITY

867-668-5888

867-993-5700

fax: 867-668-7875

fax: 867-993-6839

Box 26, Whitehorse, Yukon Y1A 5X9

GST # 128659828

No 2882

CHARTERER ARCHER CATHER		PILOT GREG RICHARDSON		DATE Sept 7/04	
		SIGNATURE <i>[Signature]</i>		AIRCRAFT EC-12	
		CHEQUE	CASH	CHARGE	TYPE BELL 206
TELEPHONE	POSTAL CODE	PURCHASE ORDER NO.			BASE DAWSON
CUSTOMER FUEL		FLIGHT ITINERARY			PASS TIME
250 LIT FROM WHITE R. LAKE		DEMOM AURORA RESERVE WEN			4.9
LIT FROM		AT BEAVER MTN			
FIREWEED FUEL					
307 LIT FROM DAWSON @ \$7.10					
LIT FROM @ \$					
LIT FROM @ \$					
OTHER CHARGES DESCRIPTION AMOUNT		Nikki			
PILOT EXPENSES DESCRIPTION AMOUNT		RATE PER HOUR WET (DRY) 950.00			TOTAL 4.9
		PASSENGERS (names)	FLIGHT 4655.00	GST 325.85	\$ 4980.85
			FUEL 338.58	GST 23.70	\$ 362.28
			OTHER	GST	\$
AUTHORIZED BY (print)			TOTAL 4993.58	349.55	\$ 5343.13
SIGNATURE X					

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INTRODUCTION

The Nikki property is located within the Kluane Ranges of southwestern Yukon and is owned 100% by ATAC Resources Ltd. It was staked in June 2004 to cover a gold-copper porphyry target marked by an aeromagnetic high and strongly anomalous results from a regional stream sediment geochemical survey.

The 2004 exploration program was managed by Archer, Cathro & Associates (1981) Limited under the author's supervision. Work was completed utilizing two to four person crews in three separate phases. The initial phase entailed grid and contour soil sampling, stream sediment sampling, geological mapping and prospecting conducted between June 26 and July 4. The second phase was conducted from July 27 to August 2 and involved more claim staking, infill grid and contour soil sampling, additional mapping and follow up prospecting. The final phase comprised 15.1 line km of induced polarization surveys done between August 24 and September 7 by Aurora Geosciences Ltd. All three phases were helicopter supported. The Author's Statement of Qualifications appears in Appendix I.

LOCATION, CLAIM STATUS AND ACCESS

The Nikki property consists of 34 contiguous mineral claims located in southwestern Yukon at latitude 62°03' north and longitude 140°58' west on NTS 115 K/02. The general location of the property is shown on Figure 1 while the locations of individual claims are displayed on Figure 2. The claims were staked under the Yukon Quartz Mining Act and are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for ATAC. The claims cover an area of approximately 680 hectares. Mineral claim tenure information is summarized as follows.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Nikki 1-26	YC29867-YC29892	March 17, 2010
27-34	YC29969-YC29976	March 17, 2010

*Expiry dates include 2004 work that has been filed for assessment credit but not yet accepted.

The Nikki property is located immediately east of the Canada-United States border, 18 km west-northwest of the White River Lodge which is located 375 km northwest of Whitehorse via the Alaska Highway.

PREVIOUS WORK

The Nikki property was first staked as a copper target in 1910 and later restaked as the Trudi claims in 1968. In 1971 Quintana Minerals Corp. Ltd. conducted grid soil sampling, geological mapping and 290.17 m of diamond drilling in two holes (Deklerk, 2003). Soil sampling identified an 1830 m long by 610 m wide zone of weakly to moderately intense copper response.

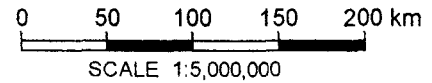
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FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

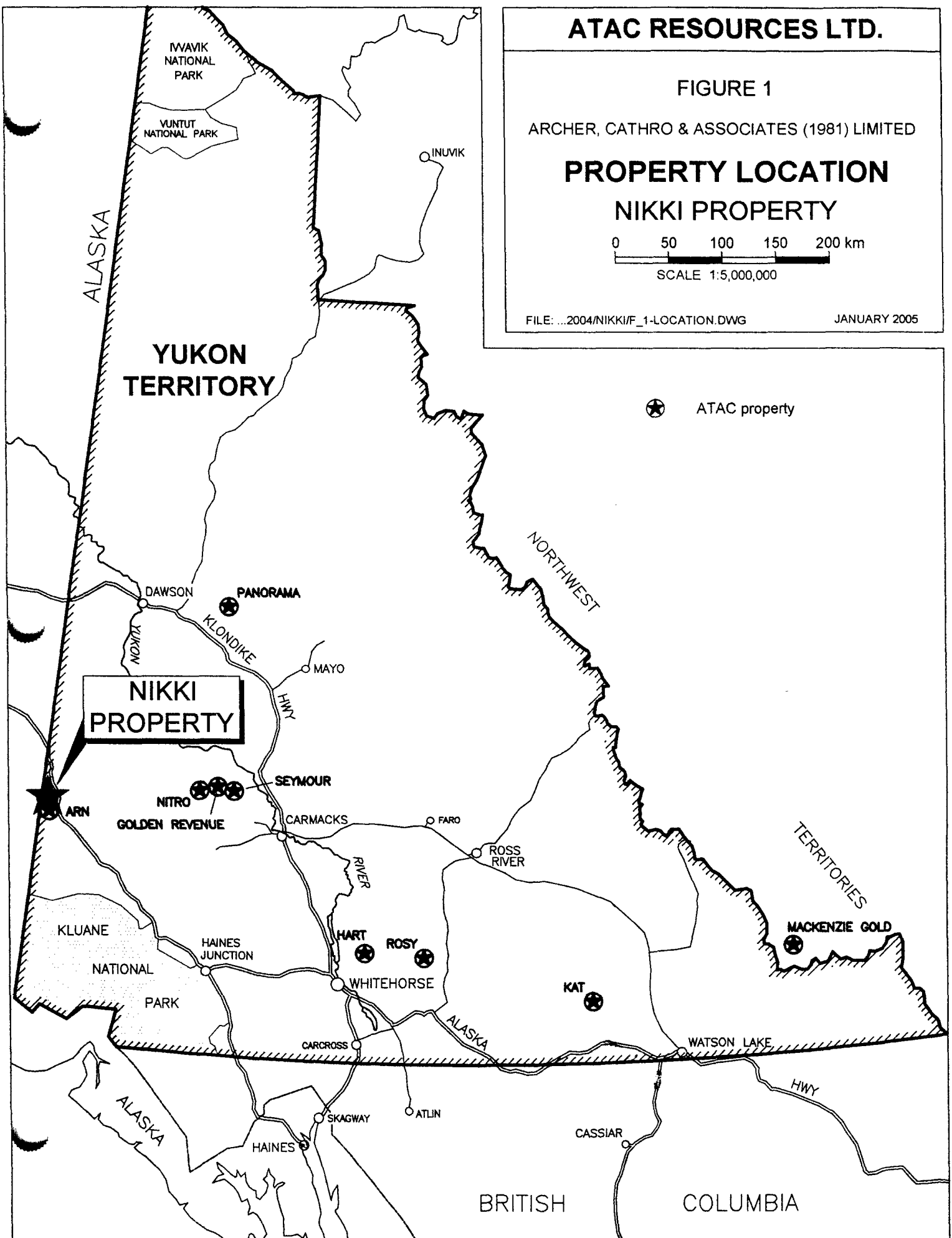
PROPERTY LOCATION

NIKKI PROPERTY

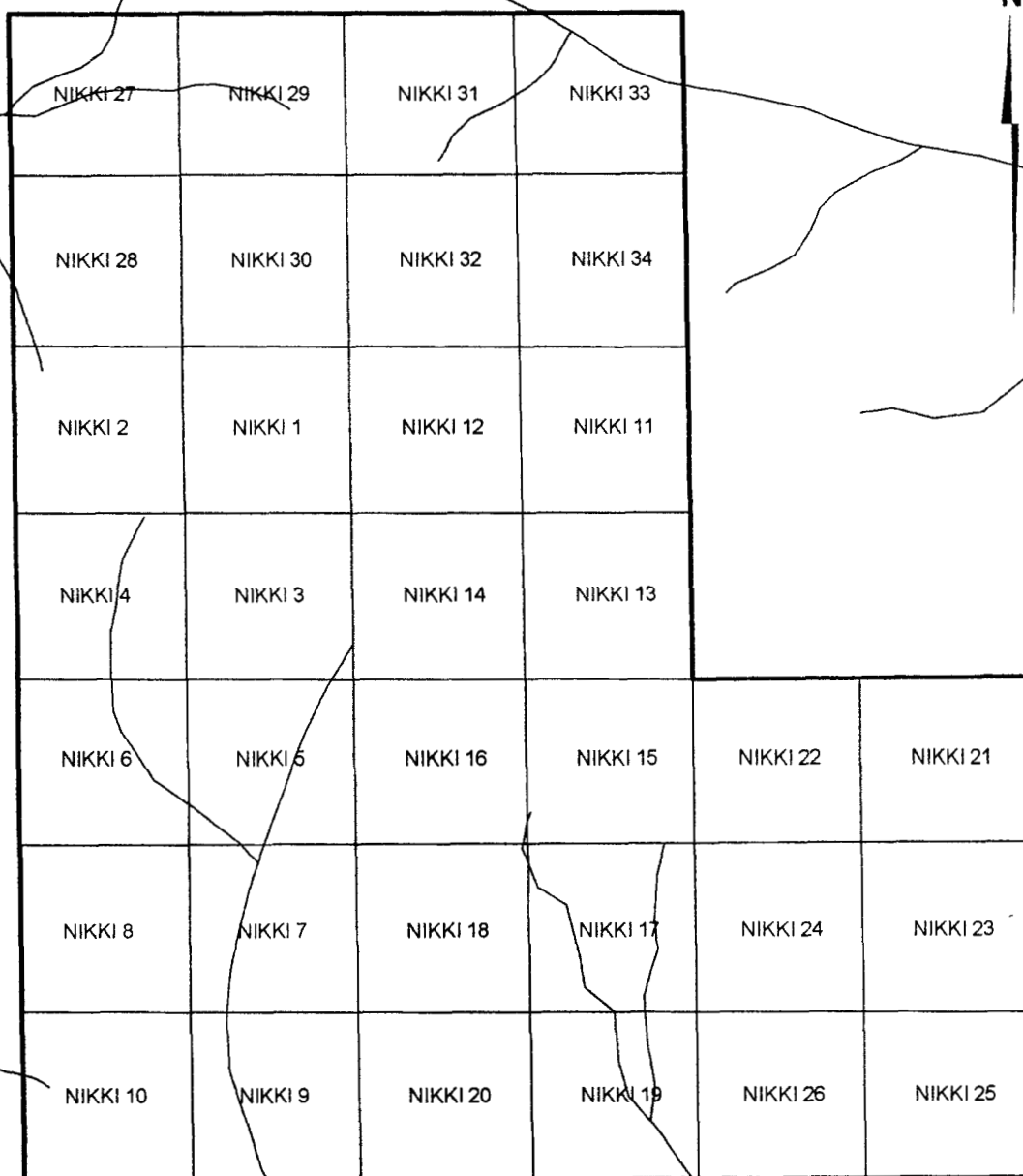


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JANUARY 2005



UNITED STATES
CANADA



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FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM LOCATION
NIKKI PROPERTY

0 500 1000 m
UTM ZONE 7, NAD83

DRAWN / REVISED BY: MRD

PROJECT: NIKKI

FILE: ...2004/NIKKI/F_2-CLAIMS.DWG

DATE: JANUARY 2005

One diamond drill hole (DDH 1) reportedly returned an average grade of 0.12% Cu with 0.007% MoS₂ across 140.21 m and the other (DDH 2) 0.15% Cu with 0.003% MoS₂ across 149.96 m. No drill logs or individual assays are available. No assays were reported for gold from core or soil samples.

Government funded, regional stream sediment sampling later returned elevated gold and copper values from a creek draining the property. Both gold and copper values returned results in the 98 percentile range, 134 ppb and 124 ppm, respectively (Hornbrook, et al., 1986). Government regional aeromagnetic surveys had earlier identified a magnetic high in the headwaters of the geochemically anomalous creek on what is now the Nikki property.

ATAC briefly prospected and soil sampled in the vicinity of the old drill holes in 2002. This work confirmed the target but it was not staked until 2004.

GEOMORPHOLOGY AND VEGETATION

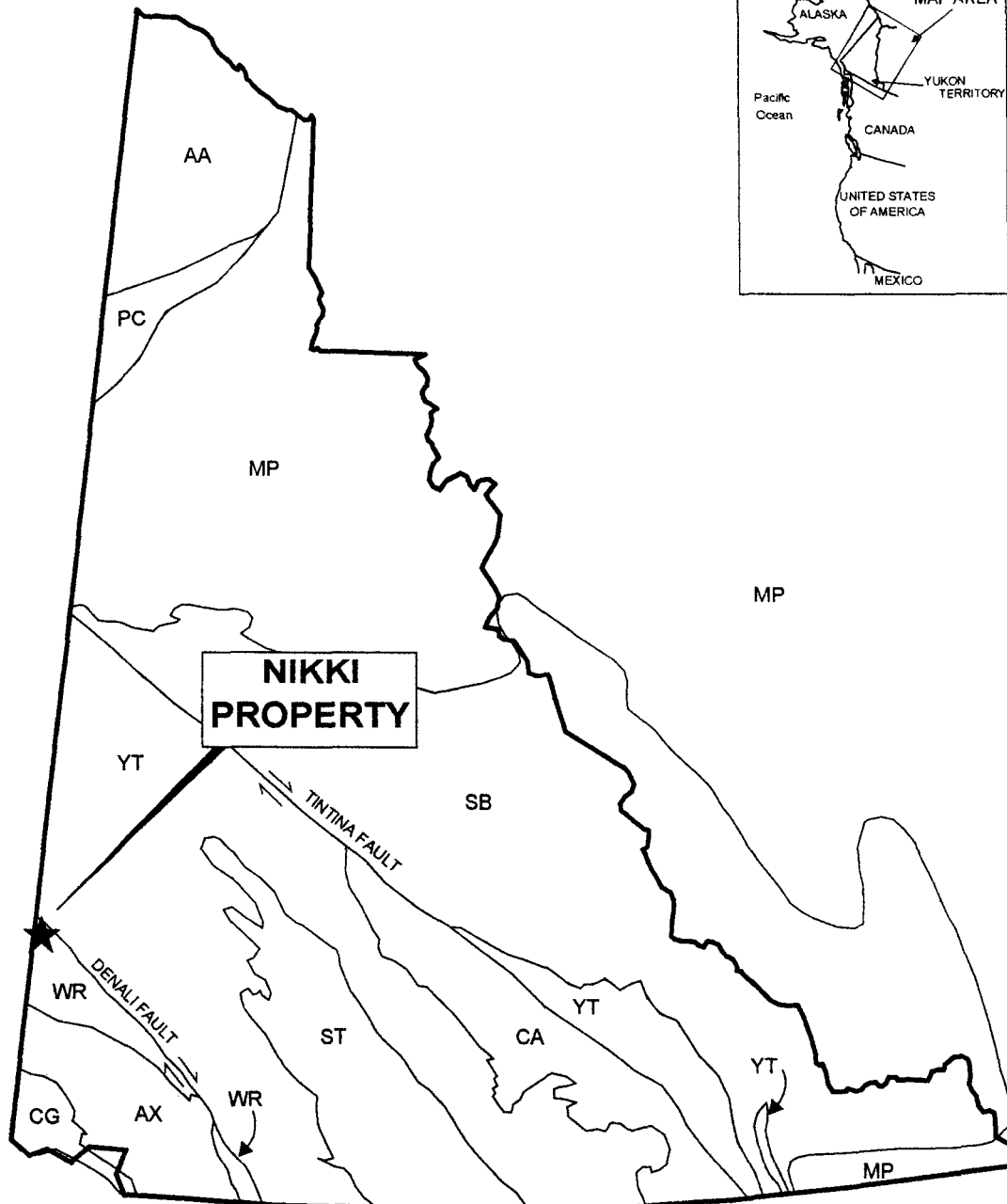
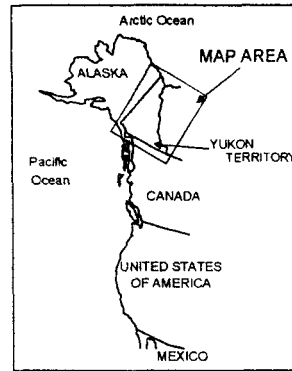
The Nikki property lies in an alpine setting and is centred on a major ridge running east-west with series of spurs radiating from it. Local elevations range about 1950 m atop the central ridge to 1160 m along a creek in the southeast corner of the property. Valley glaciation is marked by lateral moraines, the tops of which are at about 1250 m. Outcrop occurs mostly near ridge crests and along actively eroding creeks. Upper slopes are predominantly talus covered and average about 30°. Gentler slopes in the southern part of the property are typically soil or till covered. The lower areas are vegetated with grass, buckbrush, stunted spruce and dwarf birch.

Creeks draining the property contain enough water to support diamond drilling if necessary, but long waterlines will be required to reach some areas. Streams draining the southern and eastern parts of the property flow into Beaver Creek, a tributary of White River.

REGIONAL GEOLOGY

The Nikki property is located within Wrangellia, a Paleozoic to Early Mesozoic volcanic arc complex that was accreted to North America in Mid-Jurassic times (Figure 3). The property lies between two major, high angle faults: the Denali Fault about 10 km to the northeast; and, a smaller unnamed fault directly south of the property, which is one of a series of secondary structures that approximately parallel the Denali Fault. Movement on the Denali Fault involves hundreds of kilometres of dextral strike-slip. Sense of motion on the smaller fault is uncertain.

The regional stratigraphic section consists of: Pennsylvanian to Lower Permian Skolai Group volcanic and sedimentary rocks; Upper Triassic Nikolai Formation basalt and andesite flows; Upper Triassic Chitistone Formation limestone; and, Lower Cretaceous Dezadeash Formation fine grained clastic sediments (Gordey and Makepeace, 1999). The Skolai Group contains: tuff breccia, argillite, agglomerate and basaltic to andesitic flows belonging to the Station Creek Formation; and, thin-bedded argillite, siltstone, minor greywacke and conglomerate, and local thin basaltic flows, breccia and tuff of the overlying Hasen Creek Formation.



ANCESTRAL NORTH AMERICA

MP	Mackenzie Platform
SB	Selwyn Basin

TERRANES

AA	Arctic Alaska
CA	Cassiar

PERICRATONIC TERRANES

PC	Porcupine
YT	Yukon-Tanana / Slide Mountain

ACCRETED TERRANES

ST	Stikinia / Cache Creek
AX	Alexander
WR	Wrangellia
CG	Chugach

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY NIKKI PROPERTY

0 100 200 km

DRAWN/REVISED BY: TCBMRD

FILE: ...2004/NIKKI/F_3-REGIONAL.DWG

DATE: JANUARY 2005

The stratified units are intruded by Lower Cretaceous medium to coarse grained stocks and dykes of predominantly granodiorite to diorite composition and Oligocene plugs and dykes of intermediate to felsic composition.

The unnamed fault immediately south of the property separates predominantly Skolai Group rocks to the north from younger stratigraphy to the south.

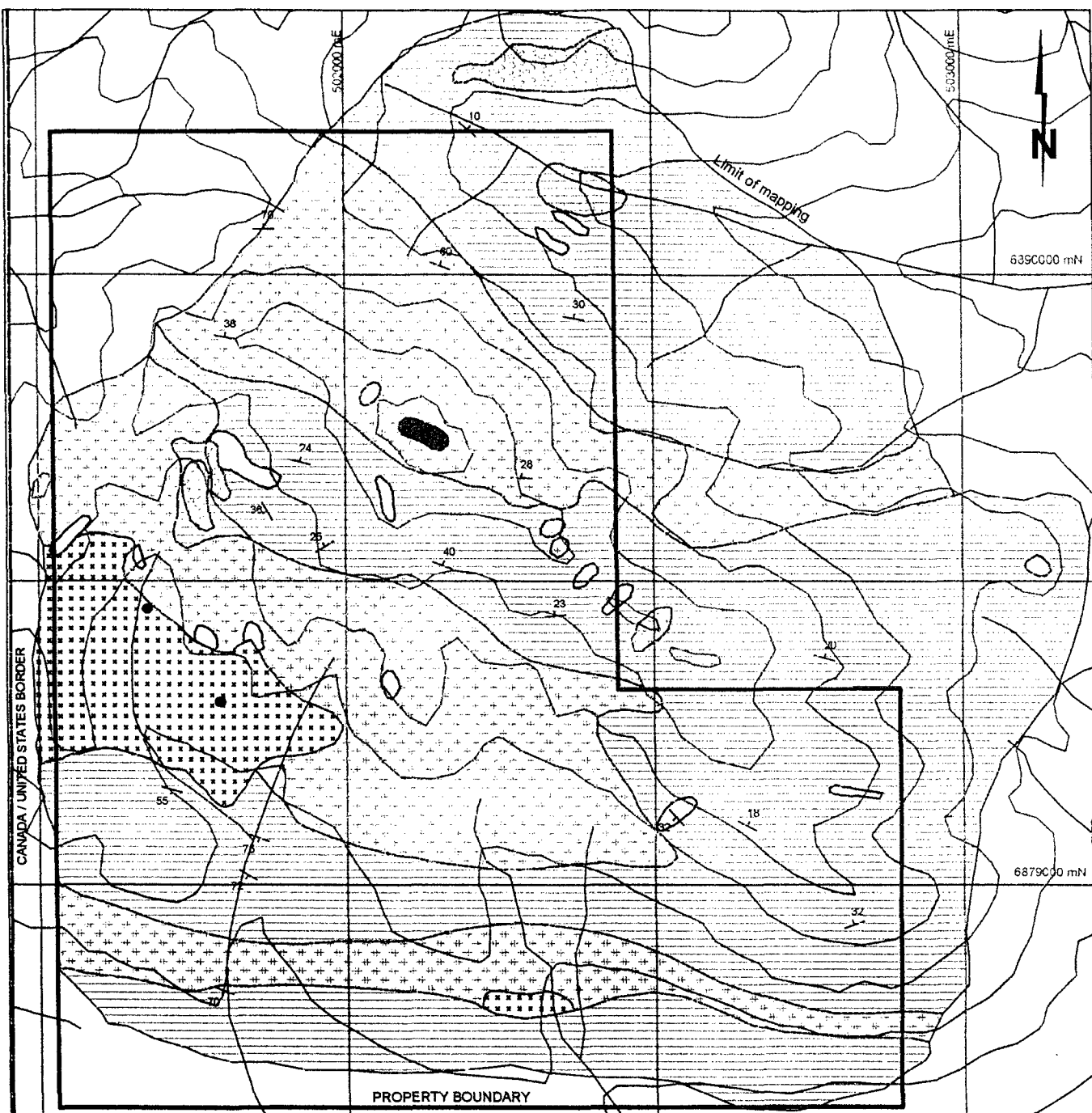
PROPERTY GEOLOGY

The Nikki property is underlain by a sedimentary sequence assigned to the Hasen Creek Formation of the Skolai Group, which is cut by a variety of intrusive rocks belonging to the Kluane Range Plutonic Suite and possibly the Oligocene Suite (Figure 4). No age dating has been done. The dominant unit within the Hasen Creek Formation is a siliceous argillite containing beds of mudstone. A 275 by 150 m lens of limestone outcrops in the northern part of the property. Rusty hornfels alteration is extensive and extends well beyond intrusive contacts. A medium to coarse grained epidote-chlorite-tremolite skarn is exposed within a 150 by 50 m zone atop the high point on the ridge in the centre of the property.

The main intrusive unit on the property is medium grained diorite containing 10 to 40% hornblende and 55 to 88% plagioclase. This unit forms three main dykes. The largest dyke is approximately 500 m wide. It begins near the centre of the western property boundary and continues about 3 km to the east-southeast. A second dyke begins in the northern part of the property, where it is approximately 800 m wide, and extends easterly across the property pinching to approximately 150 m in width. The final dyke is an east-west trending, 100 to 200 m wide intrusion running along the southern edge of the property. The diorite characteristically exhibits moderate to strong propylitic alteration.

A high level granodiorite (?) plug extends eastward from the western property boundary cutting both the diorite and argillite. This plug is approximately 850 m wide by 1000 m long. It is strongly porphyritic and contains: 20 to 40% subhedral, 1.5 to 3 mm plagioclase phenocrysts; up to 5%, 3 mm diameter quartz phenocrysts; and, about 3%, 2 mm hornblende phenocrysts, all in fine pale grey-green matrix. Rounded, up to 1 cm diameter fragments of bleached and strongly pyritic diorite (?) comprise up to 5% of the rock on sawn faces but are difficult to recognize on weathered surfaces or broken faces. The granodiorite is often clay altered along fractures and weathers to a yellow-orange colour. Calcite-pyrite veinlets are abundant, ranging from 1 to 8 mm wide. A second, smaller exposure of the granodiorite is located near the southern property boundary along the diorite-argillite contact.

Dark green to black, fine to medium grained gabbro dykes are mapped mostly in the northern half of the property. The largest gabbro dyke is approximately 100 m wide by 250 m long and is located 400 m north of the granodiorite plug. Quartz-feldspar porphyry dykes have also been mapped. The largest of these dykes is approximately 140 m wide by 540 m long and lies immediately north of the property. Both the gabbro and quartz-feldspar porphyry appear to be younger than the diorite and granodiorite.



-  Epidote - chlorite - tremolite skarn
-  Limestone
-  Gabbro
-  Quartz-feldspar porphyry
-  Granodiorite
-  Diorite
-  Argillite and mudstone
-  Bedding
-  1971 diamond drill hole location

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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY NIKKI PROPERTY

0 1000 m
UTM ZONE 7, NAD83

DRAWN / REVISED BY: MRD
FILE: ...2005/NIKKI/F_4-GEO.DWG

PROJECT: NIKKI
DATE: JANUARY 2005

Bedding within the northern half of the property dips shallowly to the north while bedding in the southern half dips moderately to the south. This suggests an anticline with its fold axis trending northeast-southwest diagonally across the property. The granodiorite plug is located near the fold axis and is slightly elongated parallel to it. No faults have been mapped on the property.

GEOCHEMISTRY AND MINERALIZATION

A total of 399 soil, 49 rock and 22 stream sediment samples were collected in 2004. The samples were sent to ALS Chemex in North Vancouver. Soils and stream sediments were dried and screened to -180 microns while rocks were crushed to better than 70% - 2mm then a 250 g split was pulverized to better than 85% passing 75 microns. Splits were then analyzed for gold using fire assay and inductively coupled plasma-atomic emission spectroscopy and for 34 other elements by aqua regia digestion followed by inductively coupled plasma-atomic emission spectroscopy. Sample locations are shown in Figure 5 while gold, copper, lead and zinc results are shown in Figures 6 to 9, respectively. Certificates of Analysis are contained in Appendix II and rock sample descriptions appear in Appendix III.

Stream sediments were collected at several locations along drainages while soil sampling was done on two grids and along contour lines. The main soil grid is located in the centre and western portions of the property, while a smaller grid lies near the northern boundary. Grid samples were collected at 100 m intervals on lines spaced 100 m apart. Contour sampling was conducted at 100 m intervals along lines flanking the ridge in the centre of the property.

Most stream sediment samples produced anomalous gold and copper values and clearly target the area of anomalous soil response. Soil sampling returned gold values ranging from less than the detection limit to 905 ppb with twenty-seven samples yielding greater than 100 ppb. Copper values range from 8 to 3060 ppm with seven samples exceeding 1000 ppm.

In 1971, Quintana identified a 1830 m by 610 m zone of anomalous copper-in-soil values. Soil sampling over a wider area in 2004 outlined a zone of anomalous copper values (greater than 200 ppm) approximately 2000 m long by 900 m wide that largely coincides with the zone identified by Quintana. Values exceeding 1000 ppm were mostly confined to this zone and are from an area underlain by granodiorite and diorite. A dry creek located in the northern part of this zone contained a conspicuous white precipitate (iron sulphate?) averaging 0.5 cm thick over a 15 m length. A sample of this material returned 8120 ppm copper, while a rock sample collected 100 m to the west returned 2590 ppm copper. Typical gold values from soil within the core of the copper anomaly are between 50 and 100 ppb.

A parallel zone 700 m long by 150 m wide of strongly anomalous gold values (greater than 100 ppb to a maximum of 950 ppb), lies along the upper, northeastern side of the main copper zone. Typical copper values in gold zone are between 200 and 350 ppm. This zone also contained anomalous lead (between 50 ppm and 225 ppm), and zinc (between 200 ppm and 2080 ppm).

The highest single copper value from the 2004 soil sampling (3060 ppm copper with 536 ppb gold) is from a site located within diorite immediately west of the highest point on the central

ridge. Lead, zinc and silver values were also strongly anomalous in this sample, (366, 1260 and 34.5 ppm, respectively). A chip sample of a propylitically altered diorite with minor disseminated chalcopyrite and pyrite collected along the ridge 120 m north of this soil returned 1.215 g/t gold over 2 m. This was the only sample taken from a 50 m diameter outcrop. A specimen of carbonate vein material with chalcopyrite blebs and malachite staining, which was collected approximately 500 m to the east, returned 0.94% copper.

Soil sampling also identified another cluster of high gold and copper values about 500 m east of the main anomalous trend (up to 323 ppb gold with 2860 ppm copper). A rock sample taken from this area returned 1.030 g/t gold and is described as a propylitically altered diorite with pyrite and boxwork limonite. Lead and zinc values within this area were also strongly anomalous with maximum values of 602 and 720 ppm, respectively.

A fourth zone of anomalous gold (100 to 456 ppb) and copper (200 to 669 ppm) response was identified on the eastern edge of the soil grid. Several of these samples also returned moderately anomalous zinc values, up to 507 ppm. Lead values were weak to a maximum of 42 ppm.

The size and intensity of the copper soil geochemical anomaly at the Nikki property compares very favourably with the anomaly at the Casino deposit, 120 km to the northeast (Figure 10). Casino is estimated to contain 178.2 million tonnes grading 0.303% copper and 0.376 g/t gold (Deklerk, 2003).

GEOPHYSICS

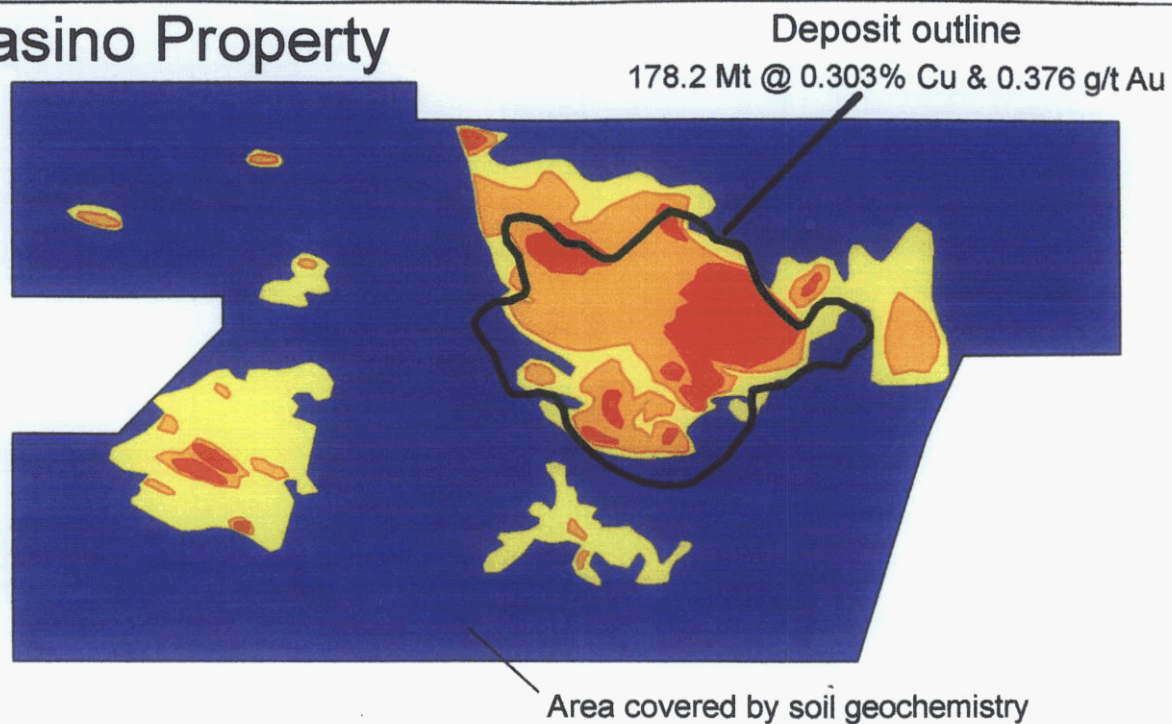
High level aeromagnetic surveys conducted over the Kluane Ranges on behalf of the Geological Survey of Canada identified a 3 km diameter area of high magnetic susceptibility, centred directly on the Nikki property (Figure 11). This anomaly shows sharp contrast with the relatively uniform low susceptibility associated with the surrounding sediments. The positive magnetic response is likely due to disseminated magnetite, which comprises up to 5% of some diorite specimens. The highest magnetic response coincides closely with the core of the gold-in-soil geochemical anomaly.

Induced polarization and resistivity surveys were completed over a total of 15.1 line km between August 24 and September 7, 2004. The report describing those geophysical surveys is copied in its entirety with maps and sections as Appendix IV. The following paragraphs summarize results.

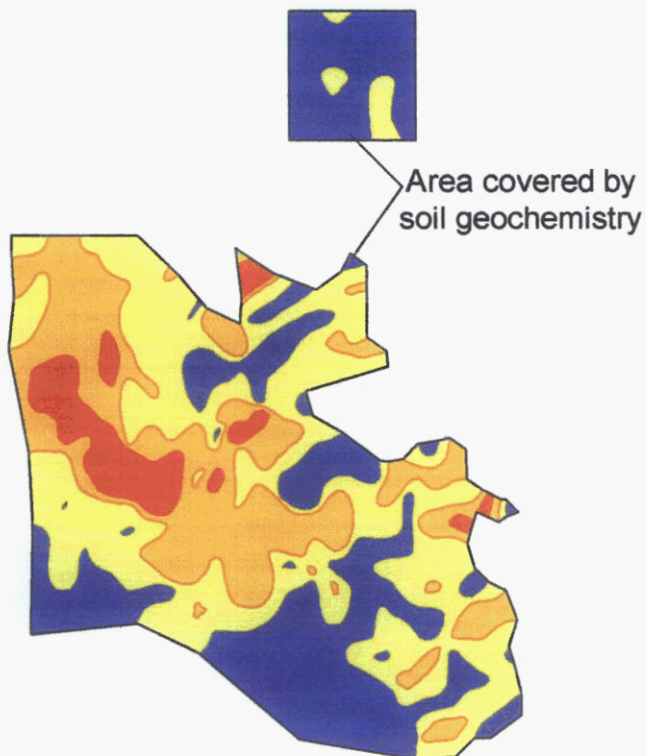
A band of low resistivity approximately coincides with the granodiorite. This band is approximately 400 to 500 m wide near the western property boundary and pinches to approximately 100 m wide toward the east. A chargeability high follows the northeastern boundary of the low in the west and passes under it in the east.

The axis of main gold geochemical anomaly lies on the southwestern (downhill) edge of the main chargeability high. The core of that copper anomaly is displaced slightly downhill into the resistivity low where Quintana's drill holes are located.

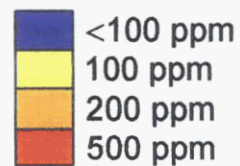
Casino Property



Nikki Property



Copper



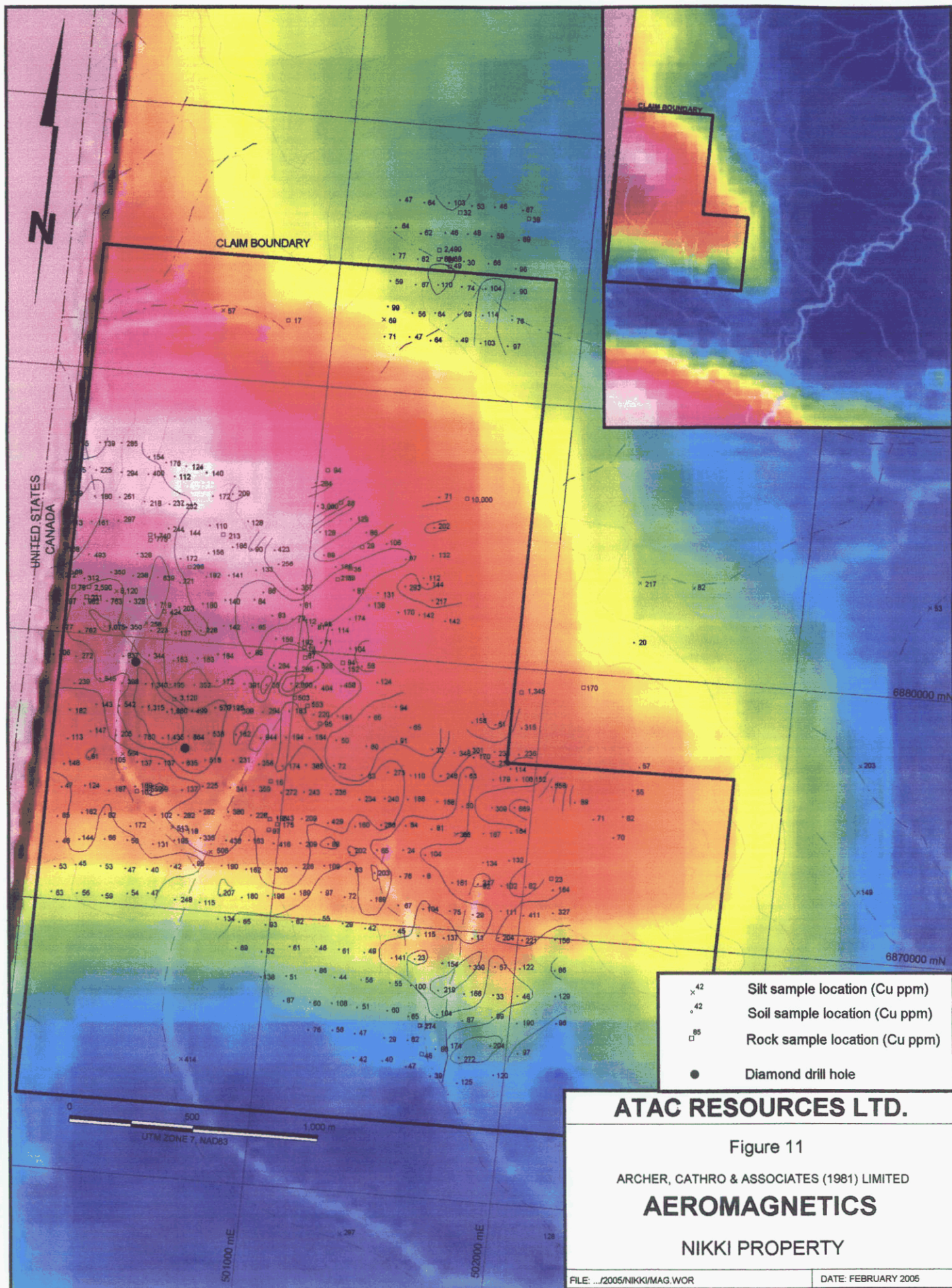
ATAC RESOURCES LTD.

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER GEOCHEMISTRY
NIKKI PROPERTY VS CASINO PROPERTY





A lobe of the chargeability high appears to extend northeasterly towards the soil sample that returned the highest copper value in 2004; however, the geophysical grid stopped approximately 300 m west of that site. Soil sampling returned only weakly to moderately anomalous values directly over that lobe.

Another chargeability high coincides with the gold-copper anomaly developed in the diorite near the centre of the property. The geophysical grid did not extend to the geochemical anomaly identified along the eastern side of the soil grid.

CONCLUSION AND RECOMENDATIONS

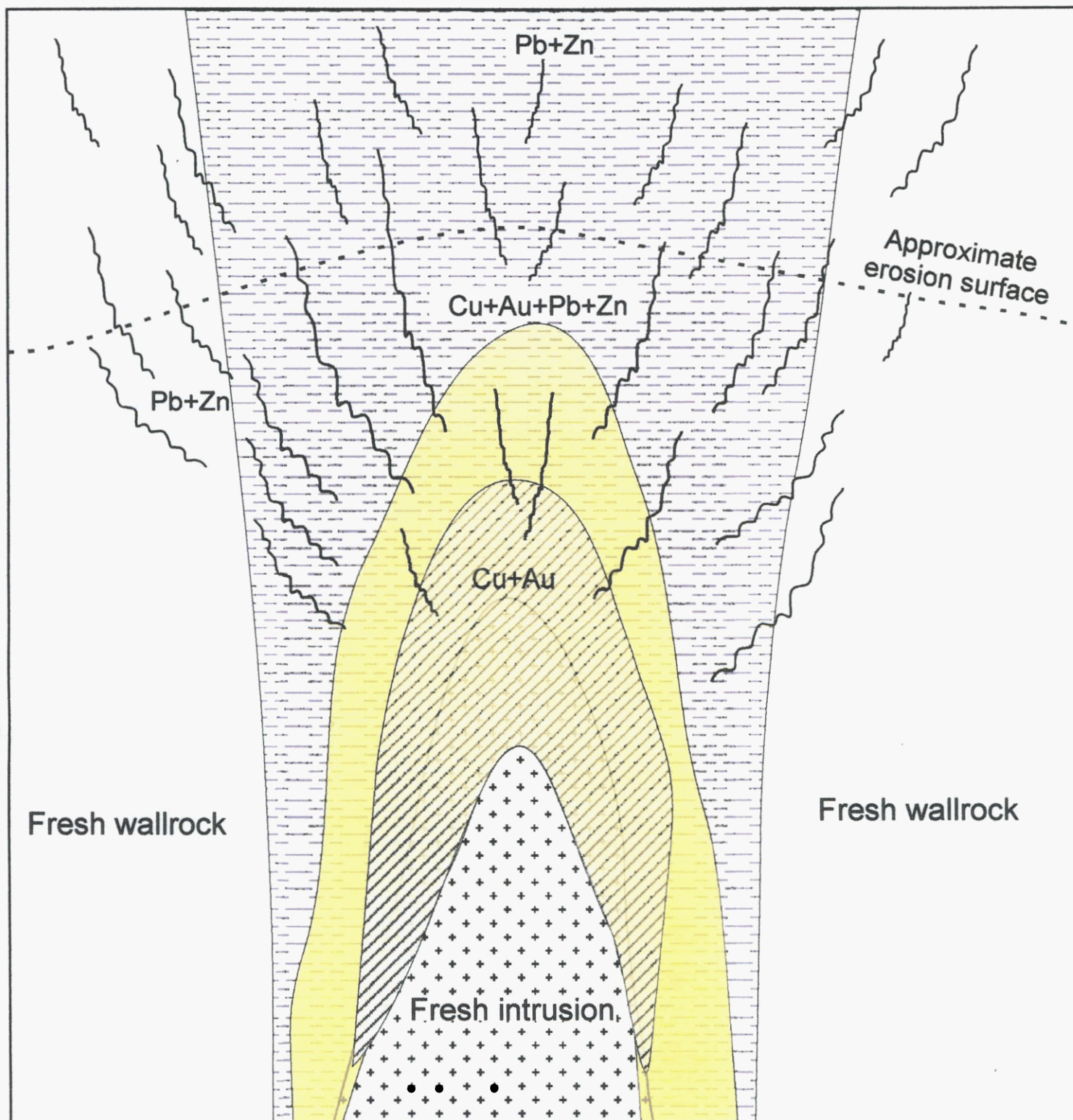
The Nikki property hosts porphyry style gold-copper mineralization associated with Cretaceous or younger intrusions cutting a Permo-Triassic island arc assemblage. The associated intrusions were emplaced in an extensional environment that followed accretion of Wrangellia to North America. They contain little free quartz. Thus, mineralization and alteration are more likely to follow the "diorite or alkalic" porphyry model rather than the more common "calc-alkaline" model. Figure 12 is a schematic diagram showing alteration zonation and metal distribution in an idealized alkalic porphyry system.

The widespread propylitic alteration that has been observed at Nikki is consistent with the alkalic porphyry model, as is the absence of pervasive argillic or phyllic alteration zones. The lack of an outcropping, strongly potassic altered core is explained by the high level nature of system. The current level of erosion exposes only the propylitic shell and hornfels halo. Deeper erosion would be required to expose the potassic core. The high level nature of the system is further indicated by the geochemical response which includes elevated lead and zinc as well as copper and gold. If the core of the porphyry body were exposed, the lead and zinc values would be expected to form a more distal halo surrounding the copper-gold mineralization.

The presence of a magnetic high is also consistent with the alkalic exploration model while the chargeability and resistivity results support the geochemical data, indicating a large hydrothermal system.

Most of the area of interest is talus or soil covered. Although Quintana's 1971 drill holes returned subeconomic grades for copper, they explored to a relatively shallow depth and were located downhill from the main gold-in-soil anomaly in a zone of low chargeability. The importance of the holes is difficult to assess because no detailed assay or geological information is available and the core could not be located.

The porphyry system at Nikki clearly extends northwesterly into Alaska. Unfortunately, the adjacent area is a game preserve where no staking is allowed. Proximity to the border is a concern but there is ample room to develop a porphyry size deposit on Canadian soil. Relatively easy access to Nikki is possible from the Alaska Highway and creeks draining the area of interest flow into Canada.



-  Veins
-  Pervasive sulphide mineralization
-  Potassic alteration zone
-  Propylitic alteration zone
-  Intrusion

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FIGURE 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

DEPOSIT MODEL

NIKKI PROPERTY

The Nikki property definitely deserves more exploration to test for a porphyry gold-copper deposit. The next stage of exploration should consist of diamond drill holes extending to depths of at least 300 m to establish alteration zonation, metal distribution and grade variability.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



W. Douglas Eaton, B.Sc. Geology

REFERENCES

Deklerk, R. (compiler)

2003 Yukon MINFILE 2002, Indian and Northern Affairs Canada, Yukon Region: CD-ROM.

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

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Hornbrook, E.H.W., Friske, P.W.B., Schmitt, H.R., Galletta, A.C., Ellwood, D.J., Mccurdy, M., Cook, S., Yelle, J., Williams, F.

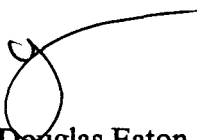
1986 Regional Strem Sediment and Water Geochemical Reconnaissance Data, GSC Open File 1363.

APPENDIX I
AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, W. Douglas Eaton, Geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in North Vancouver, British Columbia, do hereby declare that:

1. I graduated from the University of British Columbia in 1980 with a B.Sc. majoring in Geological sciences.
2. From 1971 to present, I have been actively engaged in mineral exploration in Yukon Territory, Northwest Territories and British Columbia and on June 1, 1981, I became a partner in Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in or supervised the fieldwork reported herein and have interpreted all data resulting from this work.



W. Douglas Eaton, B.Sc. Geology

APPENDIX II
CERTIFICATES OF ANALYSIS



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CERTIFICATE VA04052412

Project: Nikki

P.O. No.:

This report is for 30 Rock samples submitted to our lab in Vancouver, BC, Canada on 9-AUG-2004.

The following have access to data associated with this certificate:

AL ARCHER
BILL WENGZYNOWSKI

DOUG EATON

JOAN MARIACHER

SAMPLE PREPARATION

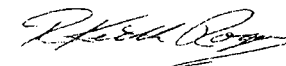
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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CERTIFICATE OF ANALYSIS VA04052412

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
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P396066		1.54	0.001	<0.2	1.26	2	<10	350	<0.5	<2	1.19	<0.5	4	20	22	2.66
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CERTIFICATE OF ANALYSIS VA04052412

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
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P396088		10	<1	0.11	<10	1.90	844	<1	0.09	5	1780	2	1.24	<2	9
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P396091		10	<1	0.08	<10	1.43	471	1	0.19	9	1140	<2	2.10	<2	5
P396092		10	5	0.08	<10	1.48	890	<1	0.05	71	>10000	3	5.05	<2	10



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CERTIFICATE OF ANALYSIS VA04052412

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
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P396068		0.21	<10	<10	168	<10	86
P396069		<0.01	<10	<10	147	<10	557
P396070		<0.01	<10	<10	128	<10	53
P396071		<0.01	<10	<10	50	<10	116
P396072		0.17	<10	<10	334	<10	27
P396073		0.16	<10	10	51	<10	21
P396074		0.17	<10	<10	39	<10	36
P396075		<0.01	<10	<10	108	<10	132
P396076		0.17	<10	<10	241	<10	25
P396077		0.01	<10	<10	41	<10	51
P396078		0.05	<10	<10	173	<10	257
P396079		0.06	<10	<10	47	<10	52
P396080		0.09	<10	<10	93	<10	63
P396081		0.21	<10	<10	96	<10	82
P396082		0.26	<10	<10	142	<10	51
P396083		0.07	<10	10	147	10	217
P396084		0.18	<10	<10	142	<10	63
P396085		0.14	<10	<10	216	<10	41
P396086		0.19	<10	<10	190	<10	32
P396087		0.17	<10	<10	223	<10	27
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P396091		0.20	<10	<10	120	<10	61
P396092		0.10	<10	<10	89	<10	106

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18-AUG-2004

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CERTIFICATE VA04052410

Project: Nikki

P.O. No.:

This report is for 112 Soil samples submitted to our lab in Vancouver, BC, Canada on 9-AUG-2004.

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
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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Project: Nikki

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Total Pages: 4 (A - C)
Finalized Date: 18-AUG-2004
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CERTIFICATE OF ANALYSIS VA04052410

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
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CC07002		0.12	0.011	<0.2	2.74	36	<10	140	0.5	<2	1.96	<0.5	26	47	164	3.55
CC07003		0.20	0.045	2.0	4.93	227	10	80	0.8	<2	2.70	2.8	43	60	669	5.79
CC07004		0.14	0.002	<0.2	3.76	15	<10	110	0.5	<2	1.22	<0.5	26	59	100	4.00
CC07005		0.28	0.031	0.3	4.49	18	<10	130	0.8	<2	1.83	<0.5	28	57	236	4.31
CC07006		0.30	0.026	1.1	3.56	412	10	340	0.6	<2	1.82	0.9	36	55	315	5.30
CC07007		0.16	0.228	<0.2	2.71	18	<10	130	0.5	<2	0.81	<0.5	22	36	61	3.66
CC07008		0.38	0.082	0.4	4.69	80	10	70	0.7	<2	2.65	0.6	41	59	230	5.24
CC07009		0.22	0.017	0.2	3.31	27	<10	110	0.5	<2	1.38	<0.5	24	60	179	3.78
CC07010		0.20	0.005	<0.2	1.68	7	<10	80	<0.5	<2	0.71	<0.5	16	29	63	3.02
CC07011		0.30	0.007	0.3	4.32	68	<10	90	0.8	<2	1.79	<0.5	27	69	158	4.67
CC07012		0.14	0.036	<0.2	2.85	49	<10	80	0.5	3	0.97	<0.5	49	31	301	4.19
CC07013		0.10	0.327	1.0	2.75	11	<10	140	<0.5	5	0.73	0.5	20	39	248	4.36
CC07014		0.08	0.007	0.7	1.42	7	<10	120	<0.5	<2	0.54	0.8	14	28	110	3.21
CC07015		0.20	0.009	<0.2	2.30	7	<10	160	<0.5	<2	0.57	<0.5	16	46	91	4.01
CC07016		0.12	0.004	<0.2	1.82	5	<10	110	<0.5	<2	0.63	<0.5	14	31	65	3.28
CC07017		0.08	0.019	0.4	3.40	31	10	170	0.7	<2	1.88	<0.5	23	60	152	4.51
CC07018		0.28	0.093	6.3	3.52	57	<10	70	0.7	5	1.14	2.2	40	62	528	8.20
CC07019		0.16	0.029	<0.2	4.69	104	<10	140	0.7	<2	1.56	<0.5	67	54	71	4.69
CC07020		0.20	0.479	1.6	5.05	164	<10	60	0.7	<2	3.30	2.8	64	54	192	8.20
CC07021		0.32	0.030	<0.2	2.88	3	<10	120	<0.5	<2	1.16	<0.5	43	184	285	6.25
CC07022		0.24	0.027	<0.2	3.39	8	<10	150	0.5	<2	1.87	0.6	27	65	159	4.83
CC07023		0.30	0.031	0.2	3.46	7	<10	100	<0.5	<2	1.68	<0.5	38	124	264	6.19
CC07024		0.20	0.014	<0.2	3.00	4	<10	130	0.6	<2	1.16	<0.5	21	56	95	4.35
CC07025		0.22	0.008	0.2	3.18	5	<10	130	0.7	<2	0.80	<0.5	20	43	65	3.89
CC07026		0.18	0.007	<0.2	2.26	13	<10	160	0.5	<2	0.81	<0.5	16	35	84	3.38
CC07027		0.22	0.022	0.3	3.38	20	<10	130	0.6	<2	1.14	<0.5	29	69	142	4.78
CC07028		0.26	0.027	0.2	3.69	35	<10	220	0.8	<2	0.81	<0.5	25	54	140	4.48
CC07029		0.28	0.012	0.3	2.72	17	<10	70	0.6	<2	1.30	<0.5	32	45	141	3.71
CC07030		0.22	0.025	0.4	3.78	40	<10	90	0.7	<2	1.14	<0.5	43	51	186	5.03
CC07031		0.28	0.037	0.4	4.49	59	<10	100	1.1	<2	1.58	<0.5	44	52	172	5.82
CC07032		0.18	0.008	<0.2	3.02	25	<10	90	0.5	<2	0.98	<0.5	26	56	110	4.06
CC07033		0.18	0.016	<0.2	4.10	77	10	120	0.8	<2	0.99	0.5	36	51	156	4.99
CC07034		0.30	0.016	<0.2	4.24	16	<10	110	0.7	<2	1.90	<0.5	35	68	192	5.56
CC07035		0.24	0.043	0.5	3.80	43	<10	130	0.5	<2	1.40	<0.5	34	71	180	5.08
CC07036		0.26	0.099	0.9	3.68	33	10	130	0.6	<2	1.72	<0.5	40	52	221	5.10
CC07037		0.28	0.056	0.8	2.78	51	10	240	1.3	<2	1.06	0.6	22	29	172	4.51
CC07038		0.30	0.022	<0.2	3.95	19	10	90	0.6	<2	1.72	<0.5	36	56	144	5.45
CC07039		0.36	0.027	0.5	3.55	92	10	100	1.0	<2	0.93	<0.5	72	58	232	6.36
CC07040		0.28	0.027	0.4	5.56	85	10	110	0.8	<2	2.74	<0.5	43	49	244	5.91

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04052410

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
CC07001		10	<1	0.25	10	1.87	986	1	0.02	39	880	13	0.08	2	11	79
CC07002		10	1	0.27	10	1.59	921	1	0.04	39	950	42	0.07	<2	9	109
CC07003		20	<1	0.39	20	2.10	1335	2	0.04	56	940	39	0.02	3	14	205
CC07004		10	1	0.28	10	1.95	764	2	0.03	41	740	12	0.05	<2	9	108
CC07005		10	1	0.18	10	1.64	937	2	0.06	48	1140	21	0.05	<2	9	166
CC07006		10	1	0.13	10	1.46	1400	1	0.05	73	910	30	0.04	6	15	179
CC07007		10	<1	0.08	10	0.82	872	1	0.02	34	1420	12	0.11	2	2	74
CC07008		20	1	0.27	10	2.19	1150	5	0.05	68	1090	52	0.01	<2	13	194
CC07009		10	1	0.26	10	1.73	668	2	0.04	48	1000	10	0.05	2	7	122
CC07010		10	<1	0.06	10	0.70	717	1	0.02	24	790	12	0.05	<2	3	50
CC07011		10	1	0.25	10	2.04	932	1	0.05	57	840	18	0.04	<2	12	194
CC07012		10	<1	0.06	10	0.77	808	5	0.03	51	1060	17	0.09	<2	4	102
CC07013		10	<1	0.07	10	0.89	988	4	0.02	32	1080	36	0.08	<2	3	89
CC07014		10	<1	0.06	10	0.46	620	2	0.02	24	900	18	0.09	<2	2	58
CC07015		10	<1	0.10	10	0.97	589	2	0.02	28	1040	11	0.08	<2	4	77
CC07016		10	<1	0.07	10	0.76	548	2	0.03	25	780	11	0.08	<2	3	61
CC07017		10	1	0.14	10	1.48	1460	2	0.05	48	1180	16	0.12	<2	9	132
CC07018		10	<1	0.23	10	1.36	1650	5	0.05	56	830	219	0.22	<2	12	232
CC07019		10	<1	0.17	10	1.86	1195	1	0.06	66	880	14	0.07	<2	8	272
CC07020		10	1	0.25	10	1.92	3230	6	0.05	51	1070	602	0.17	<2	13	299
CC07021		10	<1	0.22	10	2.12	754	5	0.06	94	930	20	0.04	<2	6	149
CC07022		10	1	0.13	10	1.70	994	1	0.05	40	850	19	0.10	<2	9	139
CC07023		10	<1	0.18	10	1.83	948	3	0.08	71	960	24	0.08	<2	7	184
CC07024		10	<1	0.11	10	1.25	762	1	0.03	40	1210	13	0.12	<2	6	146
CC07025		10	1	0.09	10	0.98	821	1	0.02	35	1140	20	0.09	<2	4	118
CC07026		10	<1	0.10	10	0.90	713	1	0.03	24	850	23	0.08	<2	4	89
CC07027		10	2	0.11	10	1.61	926	1	0.04	54	860	28	0.09	<2	9	118
CC07028		10	<1	0.18	10	1.37	896	1	0.03	46	1060	34	0.08	<2	7	154
CC07029		10	<1	0.14	10	1.14	644	1	0.04	39	1020	11	0.06	<2	6	132
CC07030		10	<1	0.14	10	1.23	773	1	0.03	54	870	59	0.09	<2	7	152
CC07031		10	<1	0.12	10	1.22	1060	1	0.02	59	1480	31	0.06	<2	8	160
CC07032		10	<1	0.09	10	1.09	761	1	0.03	43	750	25	0.08	<2	5	122
CC07033		10	<1	0.13	10	1.29	980	2	0.03	55	750	56	0.08	<2	8	156
CC07034		10	1	0.27	10	2.11	820	5	0.04	57	920	37	0.03	<2	13	264
CC07035		10	1	0.14	10	1.57	871	1	0.04	55	870	21	0.08	<2	9	199
CC07036		10	1	0.15	10	1.52	1060	1	0.04	44	940	96	0.15	<2	10	168
CC07037		10	<1	0.18	40	1.12	1860	3	<0.01	29	810	94	0.07	<2	12	54
CC07038		10	1	0.17	10	1.65	934	1	0.05	48	1080	22	0.05	2	11	136
CC07039		10	<1	0.16	30	1.63	1485	1	0.01	69	990	26	0.05	2	12	73
CC07040		20	2	0.24	20	1.51	930	2	0.04	55	830	32	0.09	2	12	230

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04052410

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC07001		0.17	<10	<10	116	<10	68
CC07002		0.16	<10	<10	102	<10	138
CC07003		0.25	<10	<10	148	<10	507
CC07004		0.24	<10	<10	135	<10	83
CC07005		0.17	<10	<10	116	<10	102
CC07006		0.12	<10	<10	116	<10	285
CC07007		0.07	<10	<10	82	<10	83
CC07008		0.26	<10	<10	145	<10	214
CC07009		0.21	<10	<10	116	<10	77
CC07010		0.10	<10	<10	75	<10	128
CC07011		0.26	<10	<10	142	<10	108
CC07012		0.08	<10	<10	96	<10	58
CC07013		0.09	<10	<10	106	<10	209
CC07014		0.06	<10	<10	84	<10	88
CC07015		0.12	<10	<10	111	<10	78
CC07016		0.09	<10	<10	77	<10	81
CC07017		0.09	<10	<10	104	<10	140
CC07018		0.11	<10	<10	122	<10	730
CC07019		0.13	<10	<10	112	<10	85
CC07020		0.12	<10	<10	128	<10	720
CC07021		0.30	<10	<10	257	<10	98
CC07022		0.12	<10	<10	151	<10	130
CC07023		0.22	<10	<10	235	<10	112
CC07024		0.11	<10	<10	128	<10	88
CC07025		0.10	<10	<10	95	<10	89
CC07026		0.09	<10	<10	86	<10	102
CC07027		0.12	<10	<10	126	<10	129
CC07028		0.11	<10	<10	116	<10	117
CC07029		0.13	<10	<10	96	<10	73
CC07030		0.12	<10	<10	114	<10	247
CC07031		0.09	<10	<10	114	<10	164
CC07032		0.08	<10	<10	97	<10	96
CC07033		0.08	<10	<10	109	<10	263
CC07034		0.19	<10	<10	157	<10	170
CC07035		0.11	<10	<10	121	<10	166
CC07036		0.08	<10	<10	109	<10	170
CC07037		<0.01	<10	<10	81	<10	105
CC07038		0.13	<10	<10	144	<10	108
CC07039		0.02	<10	<10	113	<10	167
CC07040		0.05	<10	<10	114	<10	119

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04052410

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC07041		0.28	0.076	0.6	4.36	276	10	170	1.0	<2	1.48	<0.5	49	51	237	6.71
CC07042		0.18	0.010	<0.2	3.35	25	<10	110	0.6	<2	1.45	<0.5	28	44	112	4.08
CC07043		0.30	0.018	0.2	4.18	69	20	110	1.4	<2	4.54	<0.5	79	36	400	7.85
CC07044		0.18	0.025	0.3	4.71	37	10	130	0.8	<2	1.66	<0.5	43	55	218	6.02
CC07045		0.48	0.116	1.3	4.03	160	20	80	0.8	<2	4.71	1.2	45	38	261	6.05
CC07046		0.30	0.011	0.2	4.06	50	20	70	0.8	<2	4.21	<0.5	52	59	294	7.68
CC07047		0.38	0.028	1.5	6.04	69	10	40	0.5	<2	7.07	<0.5	38	61	285	5.81
CC07048		0.38	0.148	2.9	2.50	67	20	60	<0.5	2	1.62	2.6	28	35	139	9.42
CC07049		0.46	0.235	0.6	3.29	30	20	70	0.5	<2	3.37	<0.5	34	28	225	7.23
CC07050		0.44	0.101	3.2	4.39	14	10	70	<0.5	8	3.99	<0.5	39	124	180	9.72
CC07051		0.36	0.088	0.9	3.02	45	10	220	0.5	<2	1.69	1.5	37	29	165	6.05
CC07052		0.34	0.026	<0.2	6.70	11	10	100	<0.5	<2	4.05	<0.5	32	78	215	4.96
CC07053		0.24	0.033	0.2	4.98	16	10	90	<0.5	<2	2.95	<0.5	23	42	309	4.87
CC07054		0.18	0.023	1.1	4.29	32	10	120	<0.5	<2	1.28	<0.5	36	36	113	7.89
CC07055		0.22	0.019	0.2	3.17	18	<10	130	<0.5	<2	1.02	<0.5	27	50	168	5.18
CC07056		0.18	0.026	0.9	3.05	22	<10	200	0.5	<2	0.46	0.9	24	49	212	5.45
CC07057		0.20	0.100	1.3	2.89	16	<10	160	0.6	<2	0.91	1.3	29	13	297	5.41
CC07058		0.20	0.026	0.7	2.01	9	<10	100	0.6	3	0.26	<0.5	41	29	377	5.39
CC07059		0.26	0.235	1.0	1.64	13	<10	140	0.7	<2	0.10	<0.5	22	23	206	5.60
CC07060		0.32	0.008	0.3	5.15	13	<10	50	<0.5	<2	2.78	1.3	47	195	129	4.32
CC07061		0.30	0.008	0.2	3.85	14	<10	60	<0.5	<2	1.68	<0.5	32	194	86	3.86
CC07062		0.24	0.002	<0.2	5.91	5	<10	20	0.5	<2	4.93	<0.5	26	139	106	4.14
CC07063		0.40	0.009	0.5	6.24	3	<10	50	<0.5	<2	3.40	<0.5	32	192	97	4.20
CC07064		0.34	0.006	0.4	3.97	9	<10	110	0.5	<2	2.06	<0.5	25	42	112	3.02
CC07065		0.38	0.017	0.8	4.61	47	<10	60	0.9	<2	1.95	<0.5	71	58	217	6.16
CC07066		0.26	0.011	0.9	2.42	16	<10	60	0.5	<2	1.00	<0.5	24	36	142	3.46
CC07067		0.44	0.004	0.6	5.91	19	<10	70	0.9	<2	2.58	<0.5	36	77	142	5.32
CC07068		0.50	0.011	0.5	4.55	40	<10	60	0.7	<2	2.20	<0.5	40	52	170	4.57
CC07069		0.36	0.016	0.3	3.13	17	<10	100	<0.5	<2	1.16	<0.5	27	116	138	4.05
CC07070		0.20	0.043	0.4	3.98	44	<10	220	0.9	<2	1.14	<0.5	41	56	174	5.18
CC07071		0.16	0.044	0.2	2.94	25	<10	140	0.6	<2	0.85	<0.5	23	44	95	3.98
CC07072		0.32	0.019	0.7	2.33	18	<10	110	0.8	<2	1.78	3.4	29	56	112	4.23
CC07073		0.20	0.008	0.3	2.67	21	<10	150	0.6	<2	0.91	<0.5	21	43	81	3.82
CC07074		0.24	0.113	4.5	2.76	136	<10	110	0.6	5	0.43	0.8	93	50	357	8.55
CC07075		0.50	0.029	0.7	3.49	57	<10	170	0.9	<2	0.89	<0.5	46	50	256	5.55
CC07076		0.20	0.035	1.0	4.49	78	<10	70	1.0	<2	1.20	0.6	66	44	423	6.52
CC07461		0.14	0.003	0.2	1.95	15	<10	90	0.6	<2	0.89	<0.5	22	25	67	4.35
CC07462		0.16	0.007	0.4	2.17	13	<10	120	0.6	<2	0.78	<0.5	22	27	69	4.56
CC07463		0.16	0.002	0.3	2.15	5	<10	100	0.6	<2	1.44	<0.5	16	30	96	4.01
CC07464		0.12	0.016	0.2	2.41	9	<10	130	0.5	<2	1.06	<0.5	20	46	90	4.35

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04052410

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		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
CC07041		10	1	0.15	20	1.25	1355	1	0.02	72	1130	33	0.07	4	13	149
CC07042		10	<1	0.09	10	0.99	835	2	0.03	36	1120	28	0.12	<2	4	126
CC07043		10	1	0.19	20	1.45	1365	3	0.04	99	890	17	0.30	4	32	239
CC07044		10	1	0.13	10	1.40	1060	2	0.04	78	870	44	0.11	<2	9	156
CC07045		10	<1	0.21	20	1.22	1660	3	0.05	61	780	92	0.59	2	10	176
CC07046		10	1	0.23	20	1.73	1245	2	0.08	81	820	14	0.10	2	24	205
CC07047		10	<1	0.25	10	1.52	2000	1	0.05	50	470	42	0.54	<2	14	232
CC07048		10	1	0.26	<10	1.43	2000	2	0.28	31	520	222	1.42	<2	10	248
CC07049		10	<1	0.15	10	1.81	2620	1	0.06	27	1000	56	0.60	<2	15	245
CC07050		20	<1	0.14	10	2.40	2260	1	0.13	46	1570	89	0.34	<2	16	251
CC07051		10	1	0.14	10	1.62	2280	5	0.01	29	1040	225	0.78	<2	10	118
CC07052		20	<1	0.19	<10	1.89	946	2	0.09	43	860	28	0.10	<2	7	270
CC07053		20	1	0.20	10	1.36	1205	1	0.06	28	920	43	0.18	<2	6	246
CC07054		10	<1	0.07	10	2.84	2140	1	0.03	36	920	138	0.75	<2	17	168
CC07055		10	<1	0.10	10	1.03	1170	2	0.03	29	950	48	0.14	<2	5	114
CC07056		10	<1	0.12	10	1.08	1730	2	0.02	35	1040	130	0.19	<2	5	74
CC07057		10	<1	0.21	10	1.02	1520	6	0.03	11	1860	19	0.29	<2	5	129
CC07058		10	<1	0.09	10	1.24	1850	10	<0.01	28	1240	8	0.09	<2	3	23
CC07059		<10	<1	0.10	20	0.72	1350	4	0.01	17	1080	30	0.19	<2	3	36
CC07060		10	<1	0.09	10	2.25	1030	2	0.06	114	690	52	0.03	2	8	294
CC07061		10	<1	0.11	10	2.42	1070	1	0.04	102	620	3	0.01	<2	12	263
CC07062		10	<1	0.11	<10	2.56	1030	1	0.01	58	670	<2	<0.01	<2	15	146
CC07063		10	<1	0.13	<10	2.43	1210	1	0.01	77	680	31	<0.01	<2	13	196
CC07064		10	<1	0.15	10	1.36	1085	1	0.01	29	730	17	0.01	2	7	161
CC07065		10	<1	0.18	10	1.48	1350	2	0.06	81	870	13	0.02	4	10	530
CC07066		10	<1	0.11	10	0.95	709	1	0.04	34	910	7	0.01	2	6	215
CC07067		10	<1	0.16	10	2.06	1370	1	0.03	58	680	7	0.01	<2	14	351
CC07068		10	<1	0.18	10	1.38	769	2	0.03	60	940	6	0.02	<2	9	189
CC07069		10	<1	0.12	10	1.82	915	1	0.04	61	850	10	0.02	<2	8	227
CC07070		10	<1	0.33	10	1.76	889	2	0.05	57	830	7	0.02	<2	10	354
CC07071		10	<1	0.12	10	1.22	777	2	0.03	34	890	24	0.06	<2	4	144
CC07072		10	<1	0.17	10	1.26	1170	7	<0.01	42	970	22	0.07	<2	13	20
CC07073		10	<1	0.14	10	1.02	668	1	0.03	34	1030	13	0.09	<2	4	124
CC07074		<10	<1	0.15	10	1.38	1325	8	0.01	65	1180	32	0.14	2	10	40
CC07075		10	<1	0.29	20	1.45	1195	1	0.04	64	1190	6	0.01	2	12	129
CC07076		10	<1	0.25	10	1.74	1670	2	0.05	66	580	73	0.04	<2	10	528
CC07461		<10	<1	0.12	10	0.80	1145	2	0.01	23	1060	8	0.12	<2	5	40
CC07462		10	1	0.11	10	0.89	1115	2	0.01	23	930	7	0.10	<2	5	41
CC07463		10	<1	0.08	10	0.91	815	2	0.01	22	780	2	0.11	<2	6	55
CC07464		10	<1	0.10	10	1.14	1170	2	0.01	34	740	5	0.07	<2	7	85

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04052410

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC07041		0.05	<10	<10	126	<10	188
CC07042		0.06	<10	<10	97	<10	124
CC07043		0.01	<10	<10	157	<10	166
CC07044		0.04	<10	<10	125	<10	164
CC07045		0.02	<10	<10	95	<10	350
CC07046		0.04	<10	<10	170	<10	114
CC07047		0.02	<10	<10	94	<10	208
CC07048		0.01	<10	<10	138	<10	758
CC07049		0.03	<10	<10	164	<10	205
CC07050		0.14	<10	<10	312	<10	263
CC07051		0.01	<10	<10	100	<10	372
CC07052		0.16	<10	<10	140	<10	102
CC07053		0.10	<10	<10	139	<10	148
CC07054		0.02	10	<10	242	<10	336
CC07055		0.05	<10	<10	128	<10	205
CC07056		0.05	<10	<10	114	<10	399
CC07057		0.02	<10	<10	80	<10	438
CC07058		0.01	<10	<10	65	<10	119
CC07059		0.01	<10	<10	41	<10	171
CC07060		0.10	<10	<10	103	<10	210
CC07061		0.09	<10	<10	105	<10	54
CC07062		0.16	<10	<10	132	<10	59
CC07063		0.13	<10	<10	115	<10	152
CC07064		0.05	<10	<10	68	<10	102
CC07065		0.15	<10	<10	116	<10	123
CC07066		0.13	<10	<10	81	<10	98
CC07067		0.16	<10	<10	132	<10	122
CC07068		0.14	<10	<10	111	<10	84
CC07069		0.11	<10	<10	104	<10	85
CC07070		0.11	<10	<10	122	<10	102
CC07071		0.08	<10	<10	100	<10	113
CC07072		<0.01	<10	<10	82	<10	969
CC07073		0.08	<10	<10	97	<10	98
CC07074		0.05	<10	<10	114	<10	249
CC07075		0.10	<10	<10	110	<10	108
CC07076		0.11	<10	<10	126	<10	314
CC07461		0.05	<10	<10	60	<10	85
CC07462		0.06	<10	<10	65	<10	93
CC07463		0.07	<10	<10	60	<10	85
CC07464		0.09	<10	<10	64	<10	105

Comments: NSS is non-sufficient sample.



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Total Pages: 4 (A - C)
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CERTIFICATE OF ANALYSIS VA04052410

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC07465		0.12	0.005	0.3	2.92	8	<10	90	0.5	<2	0.70	<0.5	20	54	76	4.26
CC07466		0.14	0.010	0.3	2.81	11	<10	60	0.5	<2	1.40	<0.5	19	43	97	3.84
CC07467		0.14	0.009	0.4	2.90	11	<10	70	0.5	<2	1.42	<0.5	17	74	103	3.70
CC07468		0.18	0.006	0.6	2.69	4	<10	90	<0.5	<2	1.81	0.5	20	58	114	3.85
CC07469		0.16	0.005	0.2	2.45	15	<10	190	0.5	2	0.70	<0.5	20	39	104	4.83
CC07470		0.08	0.002	0.2	1.61	14	<10	100	<0.5	<2	1.98	0.5	12	19	66	2.93
CC07471		0.10	0.015	<0.2	2.09	11	<10	150	0.5	<2	1.02	<0.5	18	26	59	3.83
CC07472		0.10	0.009	0.2	1.92	9	<10	230	<0.5	2	0.60	<0.5	21	30	46	3.86
CC07473		0.08	0.008	0.4	2.21	14	<10	100	<0.5	2	0.59	<0.5	20	34	53	4.11
CC07474		0.08	0.003	0.5	1.95	10	<10	170	<0.5	<2	0.55	0.5	19	30	48	3.84
CC07475		0.14	0.004	0.3	1.28	4	<10	90	<0.5	<2	0.31	<0.5	13	21	30	3.25
CC07476		0.20	0.005	0.5	2.27	13	<10	410	0.6	<2	0.62	<0.5	17	52	74	4.58
CC07477		0.14	0.018	0.4	2.45	9	<10	110	<0.5	<2	1.11	<0.5	17	65	69	4.16
CC07478		0.16	<0.001	<0.2	1.62	7	10	110	0.7	<2	0.83	<0.5	16	26	49	3.69
CC07479		0.24	0.002	0.3	1.44	3	10	110	0.6	<2	1.05	<0.5	17	26	64	4.48
CC07480		0.08	0.001	0.2	1.92	13	<10	110	<0.5	<2	1.04	0.5	16	46	64	3.65
CC07481		0.10	NSS	0.4	1.40	10	10	60	<0.5	<2	2.39	0.7	10	26	110	2.35
CC07482		0.20	<0.001	0.2	2.50	15	<10	150	<0.5	<2	0.48	<0.5	18	40	64	4.89
CC07483		0.18	0.012	<0.2	1.62	9	<10	90	<0.5	<2	0.42	<0.5	16	25	46	3.92
CC07484		0.16	0.005	0.2	2.58	13	<10	100	<0.5	<2	0.98	<0.5	23	30	103	4.83
CC07485		0.08	0.003	0.2	1.40	9	<10	70	<0.5	<2	2.40	<0.5	13	18	64	2.82
CC07486		0.14	0.004	<0.2	2.28	16	<10	140	<0.5	<2	0.71	<0.5	20	33	62	4.41
CC07487		0.12	0.002	0.3	1.62	16	<10	170	0.5	<2	1.78	<0.5	18	40	62	4.30
CC07488		0.18	0.010	0.7	1.97	17	10	280	0.7	<2	2.55	0.7	20	66	67	5.12
CC07489		0.14	0.004	0.6	1.62	16	10	170	0.7	<2	1.47	<0.5	15	44	56	4.71
CC07490		0.14	0.003	0.5	0.96	6	<10	40	<0.5	<2	0.53	<0.5	8	17	47	2.53
CC07491		0.16	0.003	0.3	2.06	13	<10	70	0.6	<2	0.90	<0.5	16	44	71	4.04
CC07492		0.24	<0.001	1.0	1.26	48	<10	130	1.1	<2	3.87	1.2	36	72	99	11.55
CC07493		0.16	0.004	0.2	2.38	15	<10	120	<0.5	<2	0.60	<0.5	18	33	59	4.64
CC07494		0.26	0.005	0.2	1.86	16	10	70	<0.5	<2	1.85	<0.5	14	27	77	3.62
CC07495		0.20	0.005	0.3	1.90	8	<10	180	0.5	<2	0.99	<0.5	16	48	64	3.91
CC07496		0.12	0.025	0.4	1.44	8	<10	180	0.7	<2	4.61	<0.5	17	31	47	4.34

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04052410

Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
Sample Description															
CC07465	10	<1	0.08	10	1.21	813	1	0.02	40	720	18	0.08	<2	5	102
CC07466	10	<1	0.07	10	1.27	676	2	0.02	43	880	5	0.10	<2	6	132
CC07467	10	<1	0.08	10	1.53	584	1	0.02	52	570	16	0.05	<2	8	140
CC07468	10	<1	0.09	10	1.67	786	1	0.02	47	700	31	0.11	<2	7	145
CC07469	10	<1	0.10	10	1.06	1000	2	0.01	37	1060	13	0.07	<2	8	44
CC07470	<10	<1	0.08	10	0.72	545	1	0.02	19	960	6	0.20	<2	4	71
CC07471	<10	<1	0.09	10	0.81	955	2	0.01	23	1150	7	0.12	<2	5	43
CC07472	10	<1	0.11	<10	0.82	1090	2	0.01	24	1030	10	0.10	<2	3	51
CC07473	10	<1	0.08	10	0.84	941	2	0.02	28	1040	10	0.10	<2	3	49
CC07474	10	<1	0.08	10	0.72	1035	2	0.01	24	830	7	0.09	<2	3	47
CC07475	<10	<1	0.05	<10	0.48	655	2	0.01	15	470	3	0.04	<2	2	28
CC07476	10	<1	0.09	10	1.02	610	2	0.01	53	790	17	0.05	<2	10	55
CC07477	10	<1	0.07	10	1.38	743	1	<0.01	43	750	22	0.10	<2	6	95
CC07478	10	<1	0.17	20	0.89	1150	<1	<0.01	27	750	14	0.06	<2	8	26
CC07479	10	<1	0.12	20	0.83	1035	<1	<0.01	25	670	11	0.07	<2	10	40
CC07480	10	<1	0.08	10	0.98	630	1	0.01	34	780	13	0.12	3	5	64
CC07481	<10	<1	0.06	10	0.66	367	1	0.02	27	870	15	0.17	<2	4	69
CC07482	<10	<1	0.06	10	0.92	753	2	<0.01	34	590	12	0.08	2	5	52
CC07483	10	<1	0.05	<10	0.62	713	2	0.01	19	610	11	0.08	<2	3	32
CC07484	10	1	0.07	10	1.13	1065	2	0.01	28	930	11	0.11	3	6	53
CC07485	<10	<1	0.05	10	0.63	691	2	0.02	19	1190	8	0.21	2	4	59
CC07486	10	<1	0.07	10	0.84	907	2	0.01	27	820	11	0.12	<2	4	49
CC07487	<10	<1	0.07	10	0.76	690	2	0.02	39	850	14	0.25	2	5	75
CC07488	10	<1	0.10	20	1.24	631	4	0.01	74	850	15	0.19	3	10	80
CC07489	<10	<1	0.07	10	0.81	465	2	0.01	43	740	17	0.19	<2	9	64
CC07490	<10	<1	0.04	10	0.37	383	1	0.02	14	400	11	0.05	<2	2	27
CC07491	10	<1	0.08	10	1.08	453	1	0.01	41	710	11	0.12	3	7	55
CC07492	<10	<1	0.06	10	0.86	290	7	<0.01	71	600	26	1.12	4	14	136
CC07493	<10	<1	0.06	10	0.88	793	2	0.02	27	830	8	0.14	<2	4	50
CC07494	<10	<1	0.06	10	0.78	648	2	0.03	26	890	10	0.24	4	4	65
CC07495	<10	<1	0.07	10	0.91	584	1	0.01	36	960	5	0.14	<2	6	43
CC07496	<10	<1	0.10	10	0.85	386	6	<0.01	56	670	20	0.18	2	6	158

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04052410

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC07465		0.09	<10	<10	95	<10	122
CC07466		0.09	<10	<10	92	<10	84
CC07467		0.12	<10	<10	92	<10	130
CC07468		0.13	<10	<10	96	<10	180
CC07469		0.04	<10	<10	61	<10	112
CC07470		0.04	<10	<10	41	<10	89
CC07471		0.05	<10	<10	55	<10	70
CC07472		0.07	<10	<10	70	<10	100
CC07473		0.05	<10	<10	77	<10	90
CC07474		0.04	<10	<10	64	<10	97
CC07475		0.07	<10	<10	62	<10	67
CC07476		0.04	<10	<10	72	<10	142
CC07477		0.06	<10	<10	84	<10	139
CC07478		0.02	<10	<10	49	<10	96
CC07479		0.02	<10	<10	68	<10	115
CC07480		0.05	<10	<10	67	<10	134
CC07481		0.03	<10	<10	38	<10	116
CC07482		0.08	<10	<10	81	<10	112
CC07483		0.06	<10	<10	71	<10	92
CC07484		0.09	<10	<10	85	<10	90
CC07485		0.04	<10	<10	43	<10	66
CC07486		0.07	<10	<10	77	<10	97
CC07487		0.03	<10	<10	62	<10	126
CC07488		0.03	<10	<10	61	<10	198
CC07489		0.02	<10	<10	58	<10	151
CC07490		0.08	<10	<10	54	<10	78
CC07491		0.04	<10	<10	63	<10	114
CC07492		<0.01	<10	<10	110	<10	354
CC07493		0.06	<10	<10	72	<10	102
CC07494		0.05	<10	<10	52	<10	94
CC07495		0.04	<10	<10	64	<10	86
CC07496		0.01	<10	<10	39	<10	238

Comments: NSS is non-sufficient sample.



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P.O. No.:

This report is for 107 Soil samples submitted to our lab in Vancouver, BC, Canada on 8-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER
BILL WENGZYNOWSKI

DOUG EATON

JOAN MARIACHER

SAMPLE PREPARATION

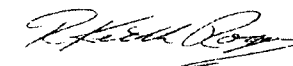
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 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: 



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Project: Nikki

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Finalized Date: 21-JUL-2004

Account: RCM

CERTIFICATE OF ANALYSIS VA04042931

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
BB28405		0.08	0.005	0.2	2.37	14	<10	130	<0.5	<2	0.66	<0.5	19	41	57	3.93
BB28406		0.10	0.011	0.2	2.25	11	<10	80	0.5	<2	0.80	<0.5	12	31	55	3.18
BB28407		0.12	0.146	<0.2	2.92	14	<10	90	0.5	<2	0.71	<0.5	18	42	82	3.65
BB28408		0.16	0.005	0.2	3.26	11	<10	160	0.6	<2	0.71	<0.5	20	42	70	4.19
BB28409		0.10	0.008	0.3	3.13	13	<10	140	0.6	<2	0.96	<0.5	19	41	71	3.72
BB28410		0.14	0.015	0.4	3.31	1065	<10	690	0.5	<2	1.12	<0.5	27	46	89	4.23
BB28411		0.12	0.456	1.6	3.18	222	<10	110	0.5	<2	1.26	0.5	44	57	558	5.29
BB28412		0.12	0.012	0.4	3.15	59	<10	80	0.5	<2	1.61	<0.5	21	43	152	3.92
BB28413		0.12	0.043	0.2	2.98	18	<10	100	0.5	<2	1.08	<0.5	21	49	114	3.63
BB28414		0.14	0.009	0.6	3.77	81	10	80	0.5	<2	1.82	<0.5	31	57	212	4.53
BB28415		0.14	0.090	0.2	3.02	50	<10	80	0.5	<2	1.26	<0.5	31	32	170	3.57
BB28416		0.14	0.040	0.4	3.21	28	<10	100	0.6	<2	1.71	<0.5	21	42	348	3.61
BB28417		0.10	0.001	<0.2	1.16	6	<10	100	<0.5	<2	0.45	<0.5	11	23	30	2.65
BB28418		0.12	0.003	0.2	3.13	6	<10	210	0.6	<2	0.42	<0.5	19	61	65	4.31
BB28419		0.04	<0.001	0.3	2.02	7	<10	140	0.6	<2	1.48	<0.5	16	30	94	2.41
BB28420		0.08	0.001	0.3	3.58	18	<10	90	0.5	<2	1.81	<0.5	23	100	124	3.79
BB28421		0.12	0.014	0.2	1.77	10	<10	90	<0.5	<2	0.71	<0.5	12	30	58	3.34
BB28422		0.12	0.012	0.2	3.13	24	<10	130	0.6	<2	0.92	<0.5	24	51	104	4.49
BB28423		0.04	0.003	0.3	2.04	15	<10	130	<0.5	<2	2.38	<0.5	19	39	114	2.85
BB28424		0.14	0.021	2.5	3.19	23	<10	420	0.7	<2	3.45	<0.5	29	20	81	4.66
BB28425		0.10	0.007	0.2	3.38	13	<10	110	0.6	<2	1.76	<0.5	18	37	72	3.33
BB28426		0.16	0.005	<0.2	3.33	12	<10	150	0.6	<2	0.63	<0.5	20	43	83	4.20
BB28427		0.12	0.003	0.3	2.46	19	<10	130	0.6	<2	0.61	<0.5	16	41	86	3.69
BB28428		0.22	0.024	0.5	2.56	24	<10	110	0.5	<2	0.93	<0.5	26	39	133	4.01
BB28429		0.08	0.008	0.4	1.92	15	<10	90	<0.5	<2	0.57	<0.5	17	40	90	3.80
BB28430		0.16	0.012	0.3	2.55	21	<10	80	0.5	<2	0.81	<0.5	27	37	128	4.18
BB28431		0.12	0.052	0.8	3.80	43	<10	120	0.5	<2	0.88	<0.5	35	51	209	6.03
BB28432		0.22	0.011	0.6	3.32	12	<10	100	<0.5	<2	1.34	<0.5	36	102	140	5.06
BB28433		0.20	0.010	0.5	3.85	29	<10	130	0.7	<2	1.30	<0.5	28	64	124	5.01
BB28434		0.20	0.039	0.4	4.64	92	<10	60	0.6	<2	2.28	<0.5	29	29	176	5.11
BB28435		0.16	0.044	1.1	3.71	40	<10	120	1.1	<2	1.40	<0.5	39	49	154	4.47
BB28436		0.14	0.046	1.7	3.33	59	<10	100	0.5	<2	1.38	0.9	37	38	284	6.38
BB28437		0.14	0.536	34.5	3.80	954	<10	180	0.5	14	0.77	1.5	118	59	3060	20.1
BB28438		0.04	0.017	0.6	1.50	44	10	310	<0.5	<2	2.78	0.5	21	20	128	2.49
BB28439		0.14	0.011	0.2	3.41	17	<10	80	<0.5	<2	1.41	<0.5	25	153	89	4.12
BB28440		0.22	0.020	0.4	3.83	59	<10	90	0.5	<2	1.65	<0.5	37	72	188	4.55
BB28441		0.14	0.005	0.2	1.45	21	<10	50	<0.5	<2	0.59	<0.5	15	29	89	3.08
BB28442		0.22	0.009	<0.2	2.46	18	<10	130	0.5	<2	0.64	<0.5	20	45	81	3.98
BB28443		0.10	0.001	0.2	3.92	14	<10	70	<0.5	<2	1.90	<0.5	25	137	131	3.87
BB28444		0.18	0.045	6.0	4.25	208	<10	180	0.6	8	1.50	1.4	84	70	293	6.05



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Finalized Date: 21-JUL-2004

Account: RCM

CERTIFICATE OF ANALYSIS VA04042931

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
BB28405		10	<1	0.07	10	0.90	791	2	0.03	32	980	13	0.08	<2	3
BB28406		10	<1	0.06	10	0.73	563	1	0.04	25	990	8	0.12	<2	3
BB28407		10	<1	0.06	10	0.93	707	1	0.04	36	840	7	0.07	<2	4
BB28408		10	1	0.07	10	0.95	894	1	0.03	39	940	8	0.08	<2	4
BB28409		10	<1	0.09	10	0.96	978	1	0.04	36	1550	9	0.13	<2	4
BB28410		10	<1	0.08	10	1.20	925	1	0.06	45	840	16	0.06	11	10
BB28411		10	1	0.10	20	1.52	1885	2	0.06	47	610	33	0.04	5	17
BB28412		10	1	0.24	10	1.30	663	3	0.05	41	900	34	0.14	2	7
BB28413		10	<1	0.18	10	1.52	730	1	0.04	40	1070	8	0.09	<2	6
BB28414		10	1	0.17	10	2.18	1065	1	0.07	98	820	17	0.06	3	10
BB28415		10	1	0.07	10	0.85	829	2	0.04	39	1130	12	0.08	<2	4
BB28416		10	1	0.29	10	1.44	639	2	0.05	38	1060	18	0.08	<2	7
BB28417		10	<1	0.04	<10	0.55	527	1	0.03	16	680	7	0.06	<2	2
BB28418		10	<1	0.25	10	1.58	564	1	0.03	44	650	7	0.06	<2	8
BB28419		10	1	0.18	10	0.73	880	1	0.04	26	1480	5	0.17	<2	3
BB28420		10	1	0.12	10	1.79	932	1	0.05	56	1150	10	0.09	2	8
BB28421		10	<1	0.06	10	0.69	460	1	0.04	21	760	9	0.08	2	3
BB28422		10	<1	0.15	10	1.34	848	2	0.04	41	940	10	0.09	<2	6
BB28423		10	<1	0.09	10	0.92	642	1	0.08	30	1460	15	0.16	2	4
BB28424		10	<1	0.21	10	1.82	934	1	0.02	26	1060	9	0.06	2	9
BB28425		10	<1	0.13	10	1.12	728	1	0.05	34	1100	14	0.10	<2	5
BB28426		10	<1	0.10	10	1.06	833	1	0.04	39	1050	11	0.10	<2	4
BB28427		10	<1	0.10	10	0.96	568	1	0.03	37	1060	7	0.09	<2	4
BB28428		10	<1	0.18	10	1.14	648	1	0.05	39	1050	10	0.02	<2	8
BB28429		10	1	0.09	10	0.94	688	1	0.03	35	890	11	0.09	<2	4
BB28430		10	<1	0.10	10	1.10	821	1	0.05	47	1040	12	0.04	2	7
BB28431		10	<1	0.11	10	1.30	1395	2	0.02	54	1220	30	0.10	<2	8
BB28432		10	1	0.11	10	1.94	998	1	0.06	71	840	16	0.06	<2	10
BB28433		10	<1	0.10	10	1.64	1075	2	0.02	44	950	20	0.04	<2	10
BB28434		10	1	0.12	10	1.40	1155	1	0.02	32	750	19	0.02	<2	12
BB28435		10	<1	0.10	10	1.22	1465	1	0.03	51	1430	51	0.11	3	6
BB28436		10	1	0.11	10	1.43	1360	3	0.02	37	880	72	0.14	<2	8
BB28437		10	1	0.16	10	1.32	3610	15	0.07	76	1920	366	0.89	4	10
BB28438		<10	<1	0.08	10	0.60	555	1	0.03	34	1200	10	0.16	<2	3
BB28439		10	<1	0.09	10	2.04	865	1	0.07	73	750	8	0.02	<2	9
BB28440		10	<1	0.15	10	1.70	745	1	0.11	72	810	6	0.02	<2	10
BB28441		10	<1	0.08	10	0.70	502	<1	0.04	26	750	10	0.03	<2	3
BB28442		10	<1	0.08	10	1.02	701	2	0.03	32	950	13	0.07	<2	4
BB28443		10	<1	0.10	10	2.20	994	1	0.04	69	760	9	0.01	2	9
BB28444		10	<1	0.15	20	1.82	2070	2	0.02	62	1130	56	0.02	<2	13



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CERTIFICATE OF ANALYSIS VA04042931

Method Analyte Units LOR	ME-ICP41 TI %	ME-ICP41 TI ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
Sample Description	0.01	10	10	1	10	2
BB28405	0.07	<10	<10	87	<10	97
BB28406	0.07	<10	<10	75	<10	76
BB28407	0.10	<10	<10	95	<10	73
BB28408	0.10	<10	<10	95	<10	90
BB28409	0.07	<10	<10	90	<10	85
BB28410	0.08	<10	<10	108	<10	137
BB28411	0.08	<10	<10	125	10	182
BB28412	0.13	<10	<10	98	<10	122
BB28413	0.17	<10	<10	110	<10	101
BB28414	0.16	<10	<10	122	<10	146
BB28415	0.09	<10	<10	86	<10	72
BB28416	0.16	<10	<10	104	<10	102
BB28417	0.09	<10	<10	64	<10	71
BB28418	0.23	<10	<10	130	<10	79
BB28419	0.08	<10	<10	61	<10	54
BB28420	0.08	<10	<10	93	<10	86
BB28421	0.10	<10	<10	82	<10	87
BB28422	0.12	<10	<10	118	<10	99
BB28423	0.07	<10	<10	78	<10	65
BB28424	<0.01	<10	<10	116	<10	79
BB28425	0.08	<10	<10	83	<10	77
BB28426	0.10	<10	<10	107	<10	88
BB28427	0.09	<10	<10	90	<10	75
BB28428	0.13	<10	<10	91	<10	72
BB28429	0.10	<10	<10	94	<10	118
BB28430	0.11	<10	<10	92	<10	104
BB28431	0.07	<10	<10	122	<10	167
BB28432	0.16	<10	<10	133	<10	154
BB28433	0.13	<10	<10	112	<10	130
BB28434	0.08	<10	<10	118	<10	101
BB28435	0.08	<10	<10	93	<10	174
BB28436	0.07	<10	<10	99	<10	439
BB28437	0.09	10	<10	106	<10	1260
BB28438	0.04	<10	<10	43	<10	120
BB28439	0.12	<10	<10	102	<10	82
BB28440	0.15	<10	<10	113	<10	73
BB28441	0.10	<10	<10	72	<10	72
BB28442	0.08	<10	<10	99	<10	98
BB28443	0.07	<10	<10	94	<10	85
BB28444	0.05	<10	<10	112	<10	521



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CERTIFICATE OF ANALYSIS VA04042931

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
BB28445		0.18	0.222	0.4	6.15	30	<10	90	0.6	<2	2.57	<0.5	52	274	144	6.24
BB28446		0.18	0.010	<0.2	5.90	3	10	30	<0.5	<2	3.52	<0.5	21	196	132	3.32
BB28447		0.12	0.005	0.2	6.81	3	1530	10	0.7	<2	5.17	<0.5	16	61	202	3.86
BB28448		0.10	0.005	0.2	3.23	8	10	80	<0.5	<2	1.80	<0.5	16	47	71	3.39
BB36784		0.06	0.004	<0.2	1.49	9	<10	120	<0.5	<2	0.59	<0.5	13	23	79	3.32
BB36785		0.14	0.011	0.4	2.60	9	<10	110	<0.5	<2	0.77	<0.5	15	24	182	3.45
BB36786		0.26	0.018	0.5	4.44	33	<10	40	0.7	<2	2.33	<0.5	46	54	309	4.74
BB36787		0.20	0.008	0.3	4.02	37	<10	140	0.6	<2	1.14	<0.5	23	71	167	3.97
BB36788		0.16	0.011	0.4	3.38	52	<10	80	0.5	<2	1.82	<0.5	19	49	134	3.72
BB36789		0.16	0.016	0.3	3.99	31	<10	130	<0.5	<2	1.24	<0.5	26	80	317	4.25
BB36790		0.18	0.015	0.2	3.35	32	<10	120	0.5	<2	1.20	<0.5	22	50	161	3.94
BB36791		0.16	0.002	0.2	1.84	13	<10	140	<0.5	<2	0.57	<0.5	17	33	86	3.02
BB36792		0.18	0.003	<0.2	1.12	6	<10	60	<0.5	<2	0.36	<0.5	10	17	50	2.55
BB36793		0.20	0.140	0.2	3.22	9	<10	150	0.5	<2	0.98	<0.5	22	41	168	4.15
BB36813		0.24	0.003	0.5	3.65	16	<10	140	0.7	<2	1.06	<0.5	24	48	115	4.50
BB36814		0.30	0.005	<0.2	2.00	10	<10	190	0.5	<2	0.27	<0.5	15	37	88	3.73
BB36815		0.30	0.005	0.2	1.34	8	<10	160	0.8	<2	0.46	<0.5	23	25	429	4.65
BB36816		0.26	0.039	0.2	3.35	12	<10	140	0.5	<2	0.54	<0.5	23	36	236	4.90
BB36817		0.16	0.005	0.2	2.20	7	<10	100	<0.5	<2	0.37	<0.5	17	33	72	3.89
BB36818		0.26	0.002	<0.2	3.21	3	<10	140	0.5	<2	0.74	<0.5	18	30	50	4.18
BB36819		0.26	0.098	4.4	3.52	15	<10	80	<0.5	12	0.51	<0.5	23	45	181	10.80
BB36820		0.30	0.061	1.0	3.37	23	<10	120	<0.5	<2	1.24	<0.5	49	51	458	8.53
BB36821		0.30	0.063	0.4	3.41	16	<10	130	<0.5	<2	1.58	<0.5	48	134	404	6.96
BB36822		0.30	0.028	0.5	4.67	8	<10	60	<0.5	<2	2.35	<0.5	40	45	220	5.13
BB36823		0.24	0.008	0.4	4.25	12	<10	100	<0.5	<2	0.92	<0.5	31	51	184	5.10
BB36824		0.26	0.019	0.4	3.69	8	<10	130	<0.5	<2	0.73	<0.5	29	38	385	5.67
BB36825		0.22	0.014	0.6	3.49	10	<10	130	0.5	<2	0.83	<0.5	24	34	243	5.06
BB36826		0.30	0.008	0.3	1.79	10	<10	200	<0.5	<2	1.20	<0.5	19	32	209	4.73
BB36827		0.32	0.023	0.4	3.63	15	<10	170	0.5	2	0.83	0.8	34	56	209	5.79
BB36828		0.26	0.066	0.8	4.02	15	<10	200	<0.5	<2	1.56	<0.5	34	118	416	6.67
BB36829		0.28	0.020	0.4	2.40	20	<10	130	<0.5	<2	1.08	<0.5	21	33	243	4.97
BB36830		0.28	0.010	0.5	2.56	12	<10	190	0.5	<2	0.81	<0.5	18	34	272	4.17
BB36831		0.24	0.018	0.3	3.51	13	<10	140	0.5	<2	0.85	<0.5	25	33	174	4.87
BB36832		0.30	0.004	0.2	3.54	35	<10	60	<0.5	<2	1.96	<0.5	33	29	194	4.96
BB36835		0.32	0.017	0.6	2.36	6	10	60	<0.5	3	1.05	1.3	18	22	183	5.81
BB36836		0.32	0.323	1.9	4.00	21	<10	50	<0.5	<2	2.32	<0.5	42	35	2860	5.52
BB36837		0.22	0.007	0.5	1.29	5	<10	40	<0.5	<2	0.42	<0.5	9	15	55	2.79
BB36838		0.32	0.025	0.8	2.76	5	<10	180	0.5	3	0.83	<0.5	18	26	294	5.01
BB36839		0.30	0.164	2.7	2.14	25	<10	330	0.6	4	0.71	1.2	29	23	844	6.23
BB36840		0.32	0.035	1.0	1.65	12	<10	280	0.6	3	0.33	<0.5	12	20	356	5.79



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
BB28445		10	<1	0.13	10	4.37	2290	1	0.01	178	670	23	0.01	<2	18
BB28446		10	1	0.10	10	2.48	1190	<1	0.05	87	620	6	0.01	<2	10
BB28447		20	1	0.10	10	2.04	935	1	0.03	34	820	4	<0.01	7	11
BB28448		10	1	0.09	10	1.10	765	1	0.03	32	1130	13	0.08	<2	5
BB36784		10	<1	0.07	10	0.59	810	3	0.02	16	940	13	0.07	<2	3
BB36785		10	<1	0.07	10	0.74	584	3	0.03	20	1670	17	0.08	<2	3
BB36786		10	<1	0.24	10	1.72	1030	1	0.03	69	1020	11	0.01	<2	11
BB36787		10	1	0.12	10	1.68	623	1	0.03	58	600	3	0.02	<2	9
BB36788		10	1	0.17	10	1.46	615	2	0.05	40	1030	21	0.06	<2	8
BB36789		10	<1	0.10	10	1.66	877	4	0.08	53	580	8	0.03	<2	10
BB36790		10	<1	0.11	10	1.26	703	2	0.03	44	870	11	0.03	<2	7
BB36791		10	<1	0.06	10	0.61	864	2	0.03	24	930	7	0.06	3	2
BB36792		<10	<1	0.04	10	0.41	331	1	0.02	12	530	5	0.02	<2	2
BB36793		10	1	0.09	10	0.97	780	1	0.04	40	970	12	0.04	<2	6
BB36813		10	<1	0.10	10	1.10	1235	1	0.03	45	780	10	0.03	<2	9
BB36814		<10	<1	0.08	20	0.66	1810	1	0.01	33	560	9	0.02	<2	5
BB36815		10	<1	0.13	20	0.64	932	4	<0.01	19	970	7	0.01	<2	5
BB36816		10	<1	0.09	10	0.98	938	4	0.02	31	1040	38	0.05	<2	5
BB36817		10	<1	0.07	10	0.70	976	3	<0.01	25	1250	10	0.08	<2	2
BB36818		10	1	0.11	10	1.03	882	1	<0.01	30	980	6	<0.01	<2	7
BB36819		10	1	0.07	10	0.59	535	11	<0.01	22	570	32	0.06	<2	9
BB36820		10	<1	0.36	10	1.78	983	22	0.02	47	1420	50	0.17	<2	11
BB36821		10	<1	0.27	10	2.46	928	9	0.01	100	1340	59	<0.01	<2	9
BB36822		10	1	0.08	10	1.56	817	3	0.14	66	1190	10	0.05	<2	6
BB36823		10	1	0.12	10	1.30	1175	3	0.06	40	810	11	0.10	<2	7
BB36824		10	1	0.11	10	1.18	1015	8	0.02	34	990	15	0.07	<2	6
BB36825		10	<1	0.14	10	1.08	993	4	0.01	28	1020	32	0.06	<2	6
BB36826		<10	<1	0.09	20	0.90	672	3	0.02	26	1580	19	0.02	<2	7
BB36827		10	1	0.13	10	1.16	925	2	0.02	39	1060	72	0.05	<2	8
BB36828		10	<1	0.18	10	2.16	1165	2	0.09	63	1020	19	0.19	<2	11
BB36829		10	1	0.12	10	0.96	884	6	0.01	24	1080	15	0.05	<2	7
BB36830		10	<1	0.12	10	0.91	658	9	0.01	28	760	19	0.08	2	4
BB36831		10	<1	0.16	10	1.16	931	3	0.02	37	1080	18	0.16	<2	5
BB36832		10	<1	0.17	10	1.21	858	2	0.05	22	1040	12	0.14	<2	10
BB36835		10	<1	0.27	10	1.04	924	2	0.12	15	1120	25	0.90	<2	7
BB36836		10	<1	0.13	10	1.51	1305	17	<0.01	39	1980	21	0.03	<2	11
BB36837		10	<1	0.04	<10	0.41	352	1	0.02	11	550	7	0.05	<2	2
BB36838		10	1	0.19	10	0.88	782	5	0.04	20	1030	49	0.35	<2	3
BB36839		10	<1	0.21	30	0.88	1755	58	0.02	24	1120	57	0.42	<2	4
BB36840		<10	<1	0.37	10	0.63	495	10	0.02	14	710	138	0.71	<2	3



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		TI	TI	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
BB28445		0.07	<10	<10	142	<10	232
BB28446		0.07	<10	<10	79	<10	69
BB28447		0.07	<10	<10	100	<10	60
BB28448		0.08	<10	<10	81	<10	96
BB36784		0.08	<10	<10	77	<10	81
BB36785		0.08	<10	<10	93	<10	71
BB36786		0.21	<10	<10	131	<10	96
BB36787		0.19	<10	<10	114	<10	71
BB36788		0.14	<10	<10	100	<10	168
BB36789		0.08	<10	<10	118	<10	93
BB36790		0.15	<10	<10	108	<10	90
BB36791		0.06	<10	<10	79	<10	66
BB36792		0.09	<10	<10	60	<10	51
BB36793		0.13	<10	<10	110	<10	71
BB36813		0.07	<10	<10	108	<10	78
BB36814		0.02	<10	<10	73	<10	104
BB36815		0.01	<10	<10	56	<10	51
BB36816		0.12	<10	<10	125	<10	160
BB36817		0.07	<10	<10	84	<10	72
BB36818		0.07	<10	<10	99	<10	55
BB36819		0.11	<10	<10	206	<10	164
BB36820		0.34	<10	<10	215	<10	289
BB36821		0.32	<10	<10	228	<10	182
BB36822		0.09	<10	<10	134	<10	63
BB36823		0.14	<10	<10	129	<10	80
BB36824		0.09	<10	<10	148	<10	82
BB36825		0.10	<10	<10	117	<10	113
BB36826		0.13	<10	<10	141	<10	91
BB36827		0.15	<10	<10	149	<10	171
BB36828		0.14	<10	<10	169	<10	122
BB36829		0.10	<10	<10	135	<10	82
BB36830		0.05	<10	<10	83	<10	74
BB36831		0.10	<10	<10	116	<10	68
BB36832		0.15	<10	<10	163	<10	67
BB36835		0.03	<10	<10	104	<10	305
BB36836		0.10	<10	<10	144	<10	97
BB36837		0.09	<10	<10	66	<10	61
BB36838		0.04	<10	<10	59	<10	118
BB36839		0.01	<10	10	48	<10	190
BB36840		0.01	<10	<10	44	<10	100



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
BB36841		0.30	0.021	1.4	2.60	13	<10	310	0.5	4	0.84	<0.5	33	50	359	6.92
BB36842		0.32	0.008	0.4	5.58	8	<10	100	<0.5	<2	1.18	<0.5	26	35	228	5.25
BB36843		0.26	0.008	0.3	3.34	7	<10	160	<0.5	2	0.54	<0.5	26	33	163	4.81
BB36844		0.26	0.028	0.8	4.73	23	<10	90	<0.5	3	1.11	<0.5	29	38	438	6.27
BB36845		0.24	0.023	0.9	3.53	14	<10	90	<0.5	2	1.80	4.2	33	29	380	5.40
BB36846		0.32	0.014	0.4	1.81	8	<10	220	<0.5	2	0.43	<0.5	14	27	341	3.91
BB36847		0.30	<0.001	0.2	3.37	15	<10	220	0.7	<2	0.83	<0.5	22	38	148	4.77
BB36848		0.22	0.002	0.2	1.11	12	<10	340	<0.5	<2	0.40	<0.5	10	15	47	2.64
BB36849		0.26	<0.001	0.2	1.82	9	<10	290	0.6	<2	0.93	<0.5	18	28	85	3.97
BB36850		0.28	0.007	0.2	2.06	12	<10	220	<0.5	<2	0.65	<0.5	13	37	46	4.03
BB36851		0.22	0.002	0.2	2.23	7	<10	140	<0.5	<2	1.20	<0.5	13	35	53	3.28
BB36852		0.30	0.003	0.2	4.56	12	<10	130	0.8	<2	1.14	<0.5	24	62	63	4.88
BB36853		0.26	0.004	<0.2	2.25	10	<10	140	<0.5	<2	0.66	<0.5	15	47	56	3.93
BB36854		0.28	0.001	<0.2	2.35	8	<10	160	<0.5	<2	0.57	<0.5	15	38	45	3.52
BB36855		0.30	0.008	0.3	2.20	11	<10	270	0.6	<2	0.83	<0.5	16	49	144	4.27
BB36856		0.32	0.006	0.4	2.32	16	<10	300	0.7	<2	0.38	<0.5	20	31	162	4.47
BB36857		0.30	0.007	0.4	1.94	22	<10	450	0.7	2	0.36	<0.5	16	25	124	4.12
BB36858		0.30	0.003	<0.2	3.73	44	<10	120	0.8	<2	1.10	<0.5	29	48	82	5.01
BB36859		0.38	0.004	<0.2	1.62	16	<10	100	<0.5	<2	0.67	<0.5	12	38	66	3.20
BB36860		0.28	0.001	<0.2	3.04	11	<10	170	0.5	<2	0.49	<0.5	16	42	53	3.94
BB36861		0.38	0.005	<0.2	1.89	6	<10	110	<0.5	<2	0.59	<0.5	15	39	59	3.29
BB36862		0.34	0.005	<0.2	2.73	13	<10	150	0.5	<2	0.56	<0.5	17	43	54	4.05
BB36863		0.28	0.003	<0.2	2.55	11	<10	130	<0.5	<2	0.38	<0.5	13	40	47	3.68
BB36864		0.26	0.006	<0.2	2.01	13	<10	120	<0.5	<2	0.65	<0.5	11	37	50	3.06
BB36865		0.28	0.003	<0.2	1.80	7	<10	120	<0.5	<2	0.81	<0.5	10	36	40	2.65
BB36866		0.28	0.031	<0.2	2.12	11	<10	130	<0.5	<2	0.59	<0.5	15	40	47	3.63
BB36867		0.26	0.018	0.4	2.67	12	<10	120	<0.5	<2	1.57	<0.5	21	43	248	5.96



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
BB36841		10	<1	0.20	20	1.20	1310	16	0.06	46	1140	50	0.70	<2	5
BB36842		10	<1	0.12	10	1.28	1040	2	0.09	31	750	12	0.07	<2	10
BB36843		10	1	0.11	10	1.12	1805	1	0.03	35	820	10	0.05	<2	6
BB36844		10	1	0.17	10	1.68	1575	2	0.10	32	590	21	0.18	<2	12
BB36845		10	<1	0.12	10	1.40	1750	2	0.08	26	1100	150	0.18	<2	10
BB36846		10	1	0.13	10	0.75	620	5	<0.01	23	590	27	0.10	<2	3
BB36847		10	<1	0.17	10	1.19	1695	6	<0.01	31	690	8	<0.01	<2	6
BB36848		<10	<1	0.07	10	0.36	796	1	0.01	16	700	7	0.03	3	2
BB36849		10	<1	0.13	10	0.69	1770	4	<0.01	23	860	7	0.02	<2	6
BB36850		10	1	0.09	10	0.98	527	3	<0.01	27	610	8	<0.01	<2	7
BB36851		10	<1	0.17	10	0.90	582	1	0.03	28	990	8	0.02	<2	5
BB36852		10	<1	0.23	10	1.98	828	1	0.14	45	510	13	<0.01	<2	10
BB36853		10	<1	0.08	10	1.02	731	1	0.01	33	760	9	<0.01	<2	8
BB36854		10	1	0.09	10	0.78	369	1	0.01	32	540	7	<0.01	<2	6
BB36855		10	1	0.11	20	1.17	1050	10	0.01	35	690	14	0.04	2	10
BB36856		10	<1	0.13	20	1.12	1810	7	0.01	24	440	12	0.02	<2	10
BB36857		10	<1	0.12	20	0.80	2640	4	0.01	22	510	16	0.03	<2	5
BB36858		10	<1	0.14	20	0.66	1795	1	0.05	54	1060	4	0.02	<2	12
BB36859		10	<1	0.09	10	0.68	537	<1	0.04	28	850	7	<0.01	<2	8
BB36860		10	1	0.10	10	0.85	591	1	0.03	37	630	5	0.02	<2	6
BB36861		10	<1	0.08	10	0.71	682	<1	0.04	29	660	6	<0.01	<2	6
BB36862		10	<1	0.10	10	0.87	733	1	0.02	35	660	7	0.03	<2	5
BB36863		10	<1	0.07	10	0.67	458	1	0.02	30	600	6	0.01	<2	6
BB36864		10	<1	0.09	10	0.72	444	<1	0.04	28	750	4	0.01	<2	6
BB36865		10	<1	0.07	10	0.68	819	1	0.03	25	760	4	0.06	<2	4
BB36866		10	<1	0.09	10	0.82	615	1	0.03	34	720	6	0.01	<2	5
BB36867		10	<1	0.10	10	1.30	871	3	0.06	26	1640	14	0.08	<2	9



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		Ti	Ti	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
BB36841		0.01	<10	<10	55	<10	140
BB36842		0.08	<10	<10	178	<10	86
BB36843		0.05	<10	<10	108	<10	109
BB36844		0.05	<10	<10	178	<10	125
BB36845		0.06	<10	<10	165	<10	703
BB36846		0.04	<10	<10	65	<10	174
BB36847		0.02	<10	<10	87	<10	109
BB36848		0.04	<10	<10	46	<10	69
BB36849		0.03	<10	<10	69	<10	99
BB36850		0.06	<10	<10	91	<10	105
BB36851		0.07	<10	<10	81	<10	76
BB36852		0.13	<10	<10	136	<10	131
BB36853		0.10	<10	<10	100	<10	74
BB36854		0.14	<10	<10	86	<10	60
BB36855		0.02	<10	<10	93	<10	128
BB36856		0.02	<10	<10	82	<10	98
BB36857		0.01	<10	<10	58	<10	88
BB36858		0.09	<10	<10	118	<10	96
BB36859		0.10	<10	<10	77	<10	60
BB36860		0.15	<10	<10	95	<10	68
BB36861		0.13	<10	<10	88	<10	56
BB36862		0.12	<10	<10	103	<10	94
BB36863		0.12	<10	<10	94	<10	58
BB36864		0.11	<10	<10	78	<10	62
BB36865		0.10	<10	<10	64	<10	77
BB36866		0.13	<10	<10	95	<10	85
BB36867		0.10	<10	<10	188	<10	111



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20-JUL-2004

Account: RCM

CERTIFICATE VA04042930

Project: Nikki

P.O. No.:

This report is for 23 Stream Sediment samples submitted to our lab in Vancouver, BC, Canada on 8-JUL-2004.

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
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: ATAC RESOURCES LTD.
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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.

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CERTIFICATE OF ANALYSIS VA04042930

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.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg 0.02	ppm 0.001	ppm 0.2	% 0.01	ppm 2	ppm 10	ppm 10	ppm 0.5	ppm 2	% 0.01	ppm 0.5	ppm 1	ppm 1	ppm 1	% 0.01
BB28382		0.10	0.043	0.3	1.77	14	<10	90	<0.5	<2	1.02	<0.5	23	58	243	5.97
BB28383		0.06	0.010	0.2	2.51	21	<10	70	<0.5	<2	1.46	<0.5	23	69	209	4.56
BB28384		0.16	0.006	0.2	2.15	8	<10	50	0.6	<2	1.42	<0.5	15	36	57	4.41
BB28385		0.20	<0.001	0.2	2.03	11	10	50	0.7	<2	1.96	<0.5	18	40	69	4.65
BB28386		0.08	0.026	1.0	3.26	53	10	120	0.6	<2	1.80	<0.5	28	63	217	4.21
BB28387		0.06	0.010	0.6	3.79	17	10	70	0.5	2	2.05	<0.5	24	115	154	4.23
BB28388		0.18	0.008	0.2	2.06	14	<10	90	<0.5	<2	1.12	<0.5	16	43	82	3.51
BB28389		0.14	<0.001	<0.2	0.49	4	<10	30	<0.5	<2	0.26	<0.5	5	7	20	0.90
BB28390		0.06	0.005	0.3	2.21	6	<10	100	0.5	<2	1.04	<0.5	15	34	53	2.86
BB28391		0.04	0.027	0.5	2.26	44	10	100	0.5	<2	2.00	<0.5	22	39	203	3.77
BB28392		0.08	0.012	0.5	2.13	29	10	160	0.6	<2	1.59	<0.5	20	43	149	3.99
BB28393		0.04	0.026	0.3	2.67	21	<10	90	<0.5	<2	1.58	<0.5	22	55	301	4.05
BB28394		0.12	0.028	1.4	8.38	17	10	50	3.6	<2	0.65	1.7	72	14	8120	5.18
BB28395		0.14	0.093	0.7	3.52	46	<10	70	<0.5	<2	2.06	<0.5	33	66	258	5.89
BB28396		0.20	0.050	0.9	1.82	21	<10	70	<0.5	<2	1.57	1.1	25	46	564	5.45
BB28397		0.10	0.037	0.9	1.10	9	<10	100	<0.5	<2	1.60	0.9	13	23	559	4.04
BB28398		0.22	0.190	1.3	1.64	24	<10	70	<0.5	<2	1.72	0.6	25	56	513	6.03
BB28399		0.16	0.049	0.7	2.41	23	10	100	<0.5	<2	1.72	<0.5	27	71	506	7.45
BB28400		0.12	0.041	0.6	2.07	14	<10	100	<0.5	<2	1.64	0.5	25	59	414	5.80
BB28401		0.18	0.087	0.9	2.00	17	<10	110	<0.5	<2	1.28	<0.5	21	59	297	5.35
BB28402		0.20	0.026	0.2	2.05	20	<10	140	<0.5	<2	1.98	<0.5	21	69	128	5.15
BB28403		0.14	0.073	0.2	2.50	27	<10	90	<0.5	<2	1.46	<0.5	20	67	174	4.52
BB28404		0.10	0.019	0.4	2.15	19	<10	100	<0.5	<2	1.44	<0.5	23	74	214	6.59



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CERTIFICATE OF ANALYSIS VA04042930

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
BB28382		10	<1	0.10	10	1.03	974	4	0.03	30	1110	13	0.33	3	7	80
BB28383		10	<1	0.11	10	1.30	691	2	0.03	41	910	14	0.03	2	7	138
BB28384		10	1	0.09	10	1.34	508	1	0.01	36	600	11	0.14	4	7	75
BB28385		10	<1	0.10	10	1.25	467	1	0.01	40	720	12	0.17	2	9	94
BB28386		10	<1	0.13	10	1.64	781	1	0.06	60	960	38	0.08	4	10	168
BB28387		10	1	0.11	10	2.15	831	1	0.05	67	920	19	0.11	3	10	211
BB28388		10	<1	0.07	10	1.18	763	1	0.03	32	750	11	0.05	2	6	72
BB28389		<10	<1	0.04	<10	0.22	83	<1	0.02	6	570	3	0.04	<2	1	17
BB28390		10	<1	0.06	10	0.88	729	1	0.03	29	880	8	0.07	3	5	71
BB28391		10	<1	0.09	10	1.18	726	2	0.05	39	1160	15	0.11	<2	7	99
BB28392		10	<1	0.08	10	1.43	586	2	0.04	40	980	18	0.09	<2	7	134
BB28393		10	<1	0.16	10	1.44	543	2	0.04	39	910	8	0.06	2	8	92
BB28394		<10	1	0.12	20	0.92	3110	6	0.06	18	1260	72	1.42	<2	19	112
BB28395		10	<1	0.12	10	1.70	1005	2	0.06	48	900	29	0.30	<2	9	181
BB28396		10	<1	0.10	20	1.09	1195	5	0.04	31	1060	116	1.00	<2	6	114
BB28397		<10	<1	0.12	20	0.76	757	4	0.03	16	880	26	0.47	<2	3	128
BB28398		10	<1	0.10	10	1.05	1165	4	0.05	30	1080	94	1.14	<2	6	115
BB28399		10	<1	0.11	10	1.42	1135	3	0.09	34	1170	37	0.42	<2	11	152
BB28400		10	<1	0.10	10	1.22	1200	3	0.06	33	1130	49	0.50	<2	7	130
BB28401		10	<1	0.09	10	1.08	986	3	0.06	32	1060	30	0.34	<2	7	117
BB28402		10	<1	0.09	10	1.16	719	2	0.05	39	900	10	0.10	<2	8	119
BB28403		10	<1	0.12	10	1.32	626	3	0.05	40	890	10	0.03	<2	7	136
BB28404		10	<1	0.10	10	1.12	834	3	0.05	36	1270	11	0.20	<2	8	108



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CERTIFICATE OF ANALYSIS VA04042930

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
BB28382		0.06	<10	<10	177	<10	94
BB28383		0.15	<10	<10	155	<10	88
BB28384		0.03	<10	<10	51	<10	116
BB28385		0.03	<10	<10	51	<10	124
BB28386		0.10	<10	<10	97	<10	207
BB28387		0.11	<10	<10	96	<10	166
BB28388		0.09	<10	<10	83	<10	99
BB28389		0.05	<10	<10	22	<10	40
BB28390		0.08	<10	<10	64	<10	91
BB28391		0.07	<10	<10	82	<10	116
BB28392		0.06	<10	<10	83	<10	127
BB28393		0.18	<10	<10	136	<10	93
BB28394		0.01	<10	<10	76	<10	938
BB28395		0.14	<10	<10	178	<10	304
BB28396		0.04	<10	<10	124	<10	373
BB28397		0.01	<10	<10	48	<10	370
BB28398		0.04	<10	<10	152	<10	271
BB28399		0.05	<10	<10	265	<10	287
BB28400		0.06	<10	<10	166	<10	246
BB28401		0.08	<10	<10	170	<10	183
BB28402		0.11	<10	<10	176	<10	88
BB28403		0.16	<10	<10	154	<10	80
BB28404		0.11	<10	<10	227	<10	100



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CERTIFICATE VA04042789

Project: Nikki

P.O. No.:

This report is for 179 Soil samples submitted to our lab in Vancouver, BC, Canada on 8-JUL-2004.

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
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
S02822		0.18	0.024	0.4	2.95	18	<10	130	0.5	<2	0.99	<0.5	25	42	164	4.03
S02823		0.18	0.022	0.7	3.28	14	<10	130	0.6	<2	0.97	<0.5	29	46	327	4.45
S02824		0.24	0.012	0.3	2.93	18	<10	140	0.7	<2	0.76	<0.5	26	45	156	4.39
S02825		0.14	0.007	0.3	2.73	13	<10	150	0.5	<2	0.83	<0.5	23	43	86	4.01
S02826		0.24	0.009	0.4	3.13	17	<10	160	0.6	<2	0.72	<0.5	23	49	129	4.38
S02827		0.20	0.016	0.3	3.36	8	<10	160	0.5	<2	0.65	<0.5	22	50	96	4.49
S02828		0.12	0.011	0.3	2.30	10	<10	140	<0.5	<2	0.78	<0.5	23	41	82	3.47
S02829		0.14	0.023	0.3	2.91	19	<10	70	0.5	<2	1.52	<0.5	41	52	411	4.38
S02830		0.10	0.008	0.3	2.24	9	<10	70	<0.5	2	1.37	0.5	30	53	221	3.51
S02831		0.20	0.016	<0.2	3.04	9	<10	130	0.5	<2	0.74	<0.5	23	53	122	4.21
S02832		0.08	0.005	0.3	1.82	7	<10	100	<0.5	<2	0.42	<0.5	13	28	46	3.03
S02833		0.08	0.011	0.5	2.57	9	<10	150	<0.5	<2	1.85	<0.5	15	37	190	3.00
S02834		0.08	0.005	<0.2	2.28	7	<10	80	<0.5	<2	1.30	<0.5	20	78	97	3.45
S02835		0.10	0.007	0.3	1.93	7	<10	90	<0.5	<2	2.16	<0.5	14	37	120	2.46
S02836		0.08	0.008	0.3	1.37	6	10	70	<0.5	<2	2.41	0.7	13	26	204	1.82
S02837		0.06	0.006	0.4	0.67	3	<10	60	<0.5	<2	2.01	0.9	8	13	99	1.18
S02838		0.14	0.004	<0.2	1.37	7	<10	100	<0.5	<2	0.32	<0.5	13	22	33	2.79
S02839		0.12	0.009	0.3	1.88	10	<10	100	<0.5	<2	0.43	<0.5	15	29	57	2.92
S02840		0.14	0.016	<0.2	2.35	8	<10	60	<0.5	<2	1.01	<0.5	26	40	204	3.77
S02841		0.20	0.017	0.2	2.81	18	<10	120	0.5	<2	0.95	<0.5	19	46	111	3.60
S02842		0.14	0.007	0.2	2.84	25	<10	150	0.5	<2	1.20	<0.5	22	48	102	3.67
S02843		0.10	0.006	0.3	2.36	17	<10	120	<0.5	<2	0.85	<0.5	16	37	92	3.39
S02844		0.16	0.006	0.3	1.49	10	<10	80	<0.5	<2	0.38	<0.5	11	22	29	3.10
S02845		0.16	0.001	<0.2	0.54	6	<10	30	<0.5	<2	0.19	<0.5	5	10	11	1.75
S02846		0.10	0.002	0.3	0.78	10	10	70	<0.5	<2	3.38	0.8	7	12	330	1.11
S02847		0.14	<0.001	0.3	1.19	9	<10	100	<0.5	<2	2.27	0.8	10	19	166	1.61
S02848		0.24	0.007	0.2	1.97	19	<10	80	<0.5	<2	1.04	<0.5	18	42	87	3.35
S02849		0.12	0.015	0.3	2.19	18	<10	80	<0.5	<2	1.95	<0.5	17	40	272	3.12
S02850		0.08	<0.001	0.3	0.96	5	10	80	<0.5	<2	2.52	1.2	8	14	125	1.26
S02851		0.12	<0.001	<0.2	1.00	4	<10	80	<0.5	<2	1.65	<0.5	8	14	39	1.55
S02852		0.14	0.003	0.2	1.81	23	10	120	0.5	2	1.88	<0.5	19	63	80	3.83
S02853		0.10	0.005	0.5	1.60	10	<10	90	<0.5	<2	0.90	<0.5	15	26	104	2.45
S02854		0.10	0.002	0.5	1.83	17	<10	90	0.5	<2	1.74	0.6	15	26	219	2.33
S02855		0.14	0.070	0.2	2.45	26	<10	70	<0.5	2	1.21	<0.5	23	45	154	3.82
S02856		0.12	0.020	0.2	2.52	25	<10	90	<0.5	<2	0.86	<0.5	24	46	137	3.88
S02857		0.08	0.004	0.3	1.47	8	<10	90	<0.5	<2	1.44	1.3	16	27	75	2.44
S02858		0.14	0.007	0.4	2.13	14	<10	110	<0.5	<2	0.83	<0.5	17	34	93	3.10
S02859		0.16	0.001	<0.2	0.46	3	<10	30	<0.5	<2	0.14	<0.5	3	9	8	1.44
S02860		0.12	0.007	0.2	2.19	25	<10	70	<0.5	<2	0.95	<0.5	18	42	104	3.63
S02861		0.10	0.003	0.6	1.09	7	<10	90	<0.5	<2	1.36	<0.5	10	18	115	1.75

Comments: NSS is non-sufficient sample.



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Total Pages: 6 (A - C)
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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
S02822		10	1	0.13	10	1.10	797	2	0.03	41	890	13	0.07	2	5	91
S02823		10	<1	0.12	10	1.27	994	2	0.04	50	840	33	0.06	<2	7	107
S02824		10	1	0.11	10	1.21	961	2	0.03	44	960	10	0.06	2	6	66
S02825		10	<1	0.15	10	1.20	770	2	0.03	35	760	12	0.07	3	5	65
S02826		10	1	0.12	10	1.07	901	2	0.03	42	780	9	0.04	2	6	63
S02827		10	1	0.09	10	0.98	597	2	0.03	42	500	10	0.03	5	6	68
S02828		10	<1	0.09	10	0.96	1005	2	0.04	32	1090	11	0.10	4	4	74
S02829		10	<1	0.14	10	1.41	966	4	0.05	55	830	16	0.06	3	9	132
S02830		10	<1	0.14	10	1.37	909	2	0.05	47	960	16	0.10	<2	6	109
S02831		10	<1	0.13	10	1.34	602	1	0.04	45	640	13	0.04	<2	6	70
S02832		10	<1	0.08	10	0.66	415	1	0.04	23	640	7	0.04	<2	3	33
S02833		10	<1	0.10	10	0.96	491	2	0.04	34	980	8	0.12	<2	5	76
S02834		10	<1	0.10	10	1.22	543	2	0.06	42	560	7	0.06	<2	5	112
S02835		<10	<1	0.07	10	0.87	456	1	0.05	30	950	7	0.13	<2	3	114
S02836		<10	<1	0.06	10	0.61	640	2	0.04	24	1020	7	0.18	2	2	102
S02837		<10	1	0.07	10	0.25	198	1	0.03	14	680	4	0.14	<2	2	80
S02838		10	<1	0.06	<10	0.39	524	1	0.03	14	350	7	0.02	<2	2	30
S02839		10	<1	0.07	10	0.58	508	2	0.03	23	590	7	0.04	<2	3	40
S02840		10	<1	0.10	10	1.09	850	3	0.04	38	670	12	0.03	<2	5	87
S02841		10	<1	0.11	10	1.16	679	2	0.04	38	830	12	0.05	<2	5	97
S02842		10	<1	0.12	10	1.23	833	1	0.04	39	890	9	0.06	<2	6	108
S02843		10	<1	0.08	10	0.89	512	2	0.05	30	680	9	0.05	<2	4	76
S02844		10	<1	0.05	<10	0.42	332	1	0.04	15	410	9	0.02	<2	2	33
S02845		<10	<1	0.04	<10	0.25	150	1	0.03	5	310	4	0.01	<2	1	17
S02846		<10	1	0.05	10	0.30	529	1	0.04	16	910	3	0.18	2	2	83
S02847		<10	<1	0.06	10	0.52	525	1	0.04	22	1120	5	0.16	<2	2	92
S02848		10	<1	0.13	10	0.92	620	2	0.05	27	760	11	0.06	<2	4	93
S02849		10	<1	0.10	10	1.19	559	2	0.05	33	830	8	0.09	<2	6	108
S02850		<10	<1	0.05	10	0.39	625	1	0.04	18	1300	8	0.18	2	1	93
S02851		<10	<1	0.04	10	0.32	565	1	0.04	13	700	7	0.09	2	2	62
S02852		<10	<1	0.08	20	1.16	563	2	0.03	57	760	11	0.08	<2	10	90
S02853		<10	<1	0.07	10	0.66	678	2	0.04	23	970	7	0.09	<2	2	62
S02854		<10	<1	0.07	20	0.75	612	2	0.04	27	1000	6	0.14	<2	4	89
S02855		10	1	0.14	10	1.34	652	4	0.04	36	640	12	0.05	<2	6	105
S02856		10	1	0.14	10	1.36	632	3	0.04	39	620	11	0.05	<2	6	77
S02857		<10	<1	0.09	10	0.62	968	2	0.04	26	1060	7	0.10	<2	2	74
S02858		10	<1	0.07	10	0.79	644	2	0.05	28	710	9	0.06	<2	3	70
S02859		<10	<1	0.04	<10	0.19	130	1	0.03	4	290	3	0.02	<2	1	14
S02860		10	<1	0.11	10	1.06	402	4	0.04	33	600	10	0.04	<2	5	80
S02861		<10	<1	0.06	10	0.31	462	2	0.04	15	1130	5	0.14	<2	2	74

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
S02822		0.11	<10	<10	102	<10	73
S02823		0.10	<10	<10	109	<10	139
S02824		0.08	<10	<10	102	<10	86
S02825		0.14	<10	<10	104	<10	88
S02826		0.12	<10	<10	110	<10	79
S02827		0.13	<10	<10	113	<10	79
S02828		0.08	<10	<10	84	<10	84
S02829		0.12	<10	<10	106	<10	79
S02830		0.12	<10	<10	92	<10	91
S02831		0.16	<10	<10	120	<10	73
S02832		0.10	<10	<10	74	<10	72
S02833		0.09	<10	<10	83	<10	86
S02834		0.11	<10	<10	104	<10	59
S02835		0.07	<10	<10	66	<10	73
S02836		0.05	<10	<10	49	<10	73
S02837		0.04	<10	<10	25	<10	53
S02838		0.09	<10	<10	68	<10	45
S02839		0.09	<10	<10	70	<10	53
S02840		0.12	<10	<10	95	<10	71
S02841		0.13	<10	<10	102	<10	81
S02842		0.11	<10	10	103	<10	76
S02843		0.10	<10	<10	86	<10	78
S02844		0.10	<10	<10	71	<10	59
S02845		0.08	<10	<10	42	<10	34
S02846		0.03	<10	<10	27	<10	70
S02847		0.04	<10	<10	38	<10	74
S02848		0.11	<10	<10	107	<10	87
S02849		0.12	<10	<10	95	<10	100
S02850		0.03	<10	<10	29	<10	80
S02851		0.04	<10	<10	33	<10	44
S02852		0.03	<10	<10	80	<10	90
S02853		0.07	<10	<10	62	<10	60
S02854		0.08	<10	<10	59	<10	64
S02855		0.17	<10	<10	112	<10	93
S02856		0.17	<10	<10	110	<10	112
S02857		0.06	<10	<10	59	<10	100
S02858		0.09	<10	<10	79	<10	76
S02859		0.07	<10	<10	36	<10	28
S02860		0.15	<10	<10	109	<10	82
S02861		0.04	<10	<10	39	<10	53

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
S02862		0.18	0.001	<0.2	0.72	4	<10	30	<0.5	<2	0.25	<0.5	7	10	23	1.82
S02863		0.10	0.004	0.5	1.86	22	<10	60	0.5	<2	1.00	0.6	36	30	100	3.55
S02864		0.14	0.002	0.4	1.29	8	<10	100	<0.5	<2	1.33	0.5	15	18	65	2.40
S02865		0.14	0.003	0.3	2.20	21	10	120	0.8	<2	1.27	<0.5	26	47	82	4.53
S02866		0.10	0.001	0.2	0.79	<2	<10	70	<0.5	<2	2.62	0.5	8	13	47	1.24
S02867		0.10	0.002	0.2	1.42	8	<10	120	<0.5	2	0.51	0.5	15	23	40	2.41
S02868		0.08	0.067	0.2	1.38	6	<10	90	<0.5	<2	0.42	<0.5	11	20	29	2.35
S02869		0.14	0.004	<0.2	3.77	15	<10	180	0.6	<2	0.64	<0.5	21	48	60	4.48
S02870		0.14	0.003	0.4	1.66	28	<10	190	0.5	<2	0.53	<0.5	14	34	55	3.43
S02871		0.12	0.004	0.6	2.81	31	<10	110	0.9	<2	0.79	<0.5	41	39	141	4.66
S02872		0.06	0.001	0.3	1.22	8	<10	90	<0.5	<2	0.67	<0.5	12	21	45	2.31
S02873		0.08	0.008	0.3	1.80	6	<10	70	<0.5	<2	2.16	<0.5	13	22	67	2.54
S02874		0.08	0.004	0.6	1.64	9	<10	110	<0.5	<2	0.76	0.8	21	27	76	2.59
S02875		0.10	0.010	0.6	1.30	6	10	40	<0.5	<2	2.84	<0.5	12	24	203	2.28
S02876		0.18	0.029	0.3	2.87	13	<10	180	<0.5	2	0.91	<0.5	22	52	189	4.30
S02877		0.12	0.003	<0.2	1.63	7	<10	130	<0.5	<2	0.96	<0.5	13	27	42	2.55
S02878		0.18	0.003	<0.2	2.76	17	<10	130	0.5	<2	0.32	<0.5	15	40	49	4.67
S02879		0.14	0.014	0.2	2.46	18	<10	160	<0.5	<2	0.50	<0.5	16	35	56	3.73
S02880		0.14	0.018	0.2	2.13	11	<10	130	<0.5	<2	0.65	0.8	18	35	51	3.50
S02881		0.08	0.009	0.2	0.73	3	10	140	<0.5	<2	2.46	1.0	7	10	47	0.98
S02882		0.14	0.003	0.2	1.72	12	<10	100	<0.5	<2	0.53	<0.5	13	30	42	3.27
S02883		0.14	0.005	<0.2	1.29	9	<10	160	<0.5	<2	1.38	0.5	10	20	56	1.94
S02884		0.22	0.003	0.6	2.57	8	<10	250	0.7	<2	0.84	<0.5	22	36	108	2.99
S02885		0.24	0.008	0.3	2.25	15	<10	160	<0.5	<2	0.30	<0.5	17	34	44	3.92
S02886		0.22	0.003	<0.2	2.34	9	<10	120	<0.5	<2	0.60	<0.5	18	41	61	3.54
S02887		0.26	0.009	<0.2	1.20	7	<10	90	<0.5	<2	0.35	<0.5	10	31	29	2.88
S02888		0.22	NSS	0.2	2.06	10	<10	110	<0.5	<2	0.87	<0.5	14	43	72	3.35
S02889		0.12	0.007	0.4	1.32	6	<10	180	<0.5	<2	0.50	<0.5	14	33	83	3.20
S02890		0.18	0.003	0.2	2.21	7	<10	130	<0.5	<2	0.90	<0.5	21	48	109	3.76
S02891		0.12	0.036	0.3	1.84	10	<10	70	<0.5	<2	1.88	<0.5	13	33	97	2.56
S02892		0.18	0.009	0.2	2.66	11	<10	180	<0.5	<2	0.60	<0.5	14	42	55	3.45
S02893		0.26	0.003	<0.2	2.21	6	<10	140	<0.5	<2	0.67	<0.5	11	40	46	3.00
S02894		0.18	0.004	0.5	3.21	20	<10	140	0.5	<2	0.96	<0.5	23	45	86	4.16
S02895		0.12	NSS	0.3	1.24	6	<10	160	<0.5	<2	1.89	0.5	11	19	60	1.74
S02896		0.14	NSS	0.2	1.04	5	10	150	0.5	<2	2.47	<0.5	8	14	76	1.30
S02897		0.06	NSS	0.2	1.39	16	<10	130	<0.5	<2	2.02	<0.5	10	24	87	1.90
S02898		0.14	0.005	<0.2	2.18	7	<10	120	<0.5	<2	0.84	<0.5	16	35	51	3.40
S02899		0.08	0.007	0.4	1.40	8	<10	140	<0.5	<2	2.37	0.6	9	19	61	1.78
S02900		0.20	0.004	0.2	2.37	6	<10	130	<0.5	<2	0.65	<0.5	13	45	62	3.49
S02901		0.12	0.016	0.2	2.09	10	10	140	<0.5	<2	2.74	<0.5	39	46	189	6.77

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
S02862		<10	<1	0.04	<10	0.23	257	1	0.04	5	500	4	0.02	<2	1	18
S02863		<10	<1	0.11	10	0.68	905	2	0.04	34	1000	18	0.10	<2	3	75
S02864		<10	<1	0.12	10	0.44	997	1	0.04	17	900	12	0.10	<2	2	66
S02865		10	<1	0.08	20	1.19	778	3	0.02	49	630	18	0.05	<2	10	44
S02866		<10	2	0.04	10	0.31	285	<1	0.02	16	920	6	0.18	<2	1	88
S02867		<10	2	0.07	10	0.45	571	<1	0.03	22	630	7	0.06	2	2	40
S02868		10	1	0.06	10	0.40	461	1	0.03	17	550	7	0.04	<2	2	35
S02869		10	2	0.15	10	0.95	725	2	0.02	45	580	8	0.04	<2	7	91
S02870		10	1	0.07	10	0.49	576	1	0.02	32	700	7	0.05	3	6	47
S02871		10	2	0.13	40	0.92	1935	2	0.01	39	940	47	0.06	2	11	79
S02872		<10	<1	0.08	10	0.40	466	1	0.02	21	1020	7	0.11	2	2	52
S02873		10	2	0.11	10	0.57	638	1	0.02	21	960	2	0.09	<2	4	116
S02874		10	<1	0.07	10	0.55	733	2	0.03	25	930	11	0.11	<2	2	65
S02875		<10	2	0.06	10	0.67	459	2	0.03	20	1080	5	0.26	2	3	69
S02876		10	1	0.07	10	1.28	1105	3	0.03	37	870	4	0.08	<2	7	92
S02877		10	2	0.05	10	0.61	592	1	0.04	26	970	4	0.09	3	3	65
S02878		10	1	0.05	10	0.53	319	1	0.02	34	490	7	0.05	<2	4	44
S02879		10	1	0.05	10	0.65	475	1	0.03	35	510	10	0.05	<2	4	57
S02880		10	1	0.09	10	0.70	708	1	0.02	36	560	6	0.05	<2	4	55
S02881		<10	<1	0.03	10	0.29	1685	1	0.03	18	1040	2	0.18	3	1	112
S02882		10	2	0.06	10	0.51	398	1	0.02	24	550	4	0.05	<2	3	42
S02883		<10	1	0.04	10	0.42	904	1	0.03	26	1190	4	0.14	<2	2	70
S02884		10	<1	0.05	20	0.54	1325	1	0.03	37	1260	10	0.08	<2	4	53
S02885		10	2	0.06	10	0.58	711	1	0.02	26	430	4	0.04	<2	4	35
S02886		10	1	0.10	10	0.77	892	1	0.04	37	820	2	0.03	<2	6	69
S02887		<10	<1	0.04	10	0.38	315	<1	0.03	21	470	3	0.03	<2	3	45
S02888		10	2	0.07	10	0.87	546	<1	0.05	31	680	4	0.04	2	8	86
S02889		10	1	0.09	10	0.63	870	4	0.01	22	900	3	0.09	<2	3	43
S02890		10	1	0.08	10	0.88	860	2	0.05	29	710	7	0.10	<2	4	98
S02891		<10	1	0.06	10	0.82	501	1	0.04	24	1120	2	0.18	2	4	99
S02892		10	2	0.11	10	0.86	449	<1	0.04	37	680	4	0.05	<2	5	58
S02893		10	1	0.09	10	0.79	442	<1	0.04	27	710	6	0.03	<2	7	68
S02894		10	<1	0.12	10	0.98	913	1	0.03	45	630	14	0.06	<2	7	81
S02895		<10	2	0.05	10	0.41	758	1	0.03	24	1510	4	0.18	<2	2	83
S02896		<10	<1	0.04	30	0.36	542	1	0.02	20	1490	4	0.19	<2	2	96
S02897		<10	1	0.05	10	0.50	526	1	0.02	27	1290	8	0.19	<2	4	80
S02898		10	1	0.10	10	0.75	562	1	0.02	36	590	6	0.07	<2	5	65
S02899		<10	2	0.06	10	0.49	612	1	0.02	25	1440	5	0.19	<2	2	98
S02900		10	2	0.07	10	0.87	471	1	0.03	36	530	6	0.05	<2	8	65
S02901		10	1	0.07	10	1.18	2300	2	0.05	38	900	3	0.27	<2	8	121

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
S02862		0.07	<10	<10	41	<10	33
S02863		0.05	<10	<10	77	<10	117
S02864		0.04	<10	<10	52	<10	91
S02865		0.01	<10	<10	90	<10	126
S02866		0.03	<10	<10	27	<10	80
S02867		0.07	<10	<10	51	<10	61
S02868		0.07	<10	<10	51	<10	46
S02869		0.13	<10	<10	107	<10	96
S02870		0.06	<10	<10	73	<10	70
S02871		0.04	<10	<10	95	<10	156
S02872		0.04	<10	<10	52	<10	85
S02873		0.06	<10	<10	60	<10	61
S02874		0.06	<10	<10	64	<10	76
S02875		0.05	<10	<10	62	<10	95
S02876		0.06	<10	<10	109	<10	94
S02877		0.07	<10	<10	59	<10	66
S02878		0.12	<10	<10	118	<10	65
S02879		0.09	<10	<10	86	<10	85
S02880		0.09	<10	<10	86	<10	128
S02881		0.02	<10	<10	18	<10	85
S02882		0.08	<10	<10	80	<10	77
S02883		0.04	10	<10	42	<10	57
S02884		0.05	<10	<10	67	<10	52
S02885		0.10	<10	<10	90	<10	68
S02886		0.14	<10	<10	86	<10	80
S02887		0.11	<10	<10	85	<10	42
S02888		0.10	<10	<10	95	<10	69
S02889		0.03	<10	<10	73	<10	71
S02890		0.09	<10	<10	109	<10	64
S02891		0.05	<10	<10	73	<10	66
S02892		0.14	<10	<10	92	<10	72
S02893		0.13	<10	<10	83	<10	65
S02894		0.11	<10	<10	102	<10	125
S02895		0.03	<10	<10	40	<10	58
S02896		0.03	<10	<10	25	<10	38
S02897		0.03	<10	<10	42	<10	75
S02898		0.10	10	<10	85	<10	99
S02899		0.04	<10	<10	38	<10	86
S02900		0.10	<10	<10	92	<10	62
S02901		0.06	<10	<10	144	<10	99

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
S02902		0.26	0.020	0.3	3.02	11	<10	170	<0.5	<2	1.31	<0.5	21	66	226	5.28
S02903		0.26	0.030	0.4	3.68	16	10	160	<0.5	<2	1.36	<0.5	48	77	300	7.46
S02904		0.12	NSS	0.3	1.78	15	10	200	<0.5	<2	2.40	0.7	52	38	196	5.52
S02905		0.16	0.002	<0.2	1.26	5	<10	100	<0.5	<2	2.71	<0.5	8	21	93	1.82
S02906		0.16	0.008	0.3	1.32	9	<10	110	<0.5	<2	1.87	0.8	9	18	62	1.72
S02907		0.22	0.013	0.7	1.98	6	10	130	0.6	<2	2.02	<0.5	7	28	138	2.14
S02908		0.20	0.001	0.8	1.12	5	<10	60	<0.5	<2	0.92	<0.5	7	15	69	1.77
S02909		0.14	0.004	<0.2	1.20	6	10	80	<0.5	2	2.33	<0.5	16	27	85	4.51
S02910		0.16	0.012	0.4	2.31	6	<10	180	<0.5	<2	1.76	1.0	17	59	180	2.20
S02911		0.14	0.012	0.3	1.93	7	<10	100	<0.5	<2	1.18	1.5	15	28	162	3.45
S02912		0.22	0.014	0.4	2.76	20	10	120	<0.5	<2	1.75	<0.5	27	67	190	5.71
S02913		0.20	0.024	0.2	2.68	16	<10	120	<0.5	<2	1.39	<0.5	28	41	207	6.30
S02914		0.10	NSS	<0.2	1.04	<2	10	210	<0.5	<2	2.82	0.7	12	17	134	1.73
S02915		0.18	0.002	0.3	1.34	12	<10	110	<0.5	<2	0.33	<0.5	19	26	68	3.27
S02916		0.16	0.002	0.2	1.96	6	<10	140	<0.5	<2	0.44	<0.5	14	35	104	2.99
S02917		0.12	0.006	0.2	1.86	9	<10	110	<0.5	<2	0.55	<0.5	14	29	81	3.18
S02918		0.18	0.078	0.3	3.03	9	<10	160	<0.5	2	0.77	<0.5	19	36	188	4.36
S02919		0.16	0.006	0.5	1.33	5	<10	120	<0.5	<2	1.30	<0.5	12	22	84	1.93
S02920		0.14	0.001	0.2	0.84	3	<10	50	<0.5	<2	0.23	<0.5	5	13	24	1.78
S02921		0.14	0.009	0.2	1.22	7	<10	200	<0.5	<2	1.68	0.5	9	17	65	1.94
S02922		0.16	0.023	0.4	2.03	6	<10	200	0.5	<2	1.95	<0.5	11	28	286	2.96
S02923		0.12	0.018	0.4	2.75	6	<10	110	<0.5	<2	1.52	<0.5	16	27	240	4.11
S02924		0.18	0.014	0.3	3.72	13	<10	170	<0.5	<2	1.26	<0.5	27	42	273	4.63
S02925		0.08	0.002	0.3	1.71	5	<10	130	<0.5	<2	0.63	<0.5	16	27	60	2.79
S02926		0.06	0.008	0.2	1.64	9	<10	110	<0.5	<2	1.18	<0.5	14	25	63	2.60
S02927		0.18	0.032	0.4	2.71	9	<10	120	<0.5	<2	1.44	0.5	19	31	234	4.60
S02928		0.14	0.012	0.2	2.16	11	<10	140	<0.5	<2	1.02	<0.5	21	28	160	3.75
S02929		0.26	0.006	0.3	4.45	11	10	120	<0.5	<2	1.98	<0.5	43	108	202	6.69
S02930		0.22	0.023	0.5	3.98	11	<10	470	0.6	2	1.16	0.9	35	125	270	6.09
S02931		0.26	0.011	0.4	2.81	10	<10	240	0.5	<2	0.35	<0.5	20	38	231	5.01
S02932		0.28	0.011	0.7	2.67	10	<10	290	0.6	<2	0.52	<0.5	18	35	162	4.38
S02933		0.30	0.004	0.5	3.39	3	<10	170	0.6	<2	0.73	<0.5	18	31	309	4.35
S02934		0.26	0.013	0.3	4.29	5	<10	110	<0.5	<2	1.08	<0.5	23	48	391	6.75
S02935		0.28	0.017	0.3	3.53	9	<10	180	0.5	<2	1.20	<0.5	22	52	184	4.64
S02936		0.34	0.016	0.4	3.41	6	<10	150	<0.5	<2	1.17	<0.5	28	71	172	5.97
S02937		0.32	0.032	0.9	2.20	6	<10	180	0.5	2	0.86	<0.5	15	27	570	3.33
S02938		0.28	0.017	0.6	1.42	6	<10	130	0.6	<2	0.19	<0.5	26	15	538	6.21
S02939		0.24	0.013	0.4	2.35	9	<10	290	0.7	<2	0.28	<0.5	21	26	518	4.95
S02940		0.34	0.016	<0.2	3.28	14	<10	250	0.5	<2	0.61	<0.5	31	35	225	5.80
S02941		0.32	0.017	0.4	2.99	9	<10	190	<0.5	<2	1.40	<0.5	22	62	282	4.78

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
Sample Description															
S02902	10	2	0.10	10	1.40	480	3	0.06	44	910	9	0.07	<2	9	121
S02903	10	2	0.12	10	2.26	3190	5	0.07	55	810	3	0.39	2	22	72
S02904	<10	3	0.06	10	0.83	3230	3	0.03	44	1200	9	0.26	<2	5	96
S02905	<10	1	0.05	10	0.53	612	1	0.03	27	1170	22	0.19	<2	3	93
S02906	<10	1	0.06	10	0.50	523	1	0.03	24	1420	10	0.17	<2	2	95
S02907	<10	1	0.06	30	0.64	170	<1	0.03	27	1360	12	0.18	<2	5	80
S02908	<10	2	0.04	10	0.37	350	<1	0.03	15	940	7	0.12	<2	2	47
S02909	<10	1	0.04	10	0.57	1465	<1	0.04	27	960	6	0.20	2	3	82
S02910	10	1	0.06	10	1.13	929	1	0.07	34	920	9	0.31	<2	5	128
S02911	10	2	0.08	10	0.81	698	2	0.03	29	1080	12	0.11	<2	4	90
S02912	10	1	0.09	10	1.66	1610	1	0.06	49	860	26	0.11	<2	18	146
S02913	10	<1	0.12	10	1.30	1160	4	0.06	27	1980	18	0.11	<2	8	202
S02914	<10	2	0.04	10	0.45	4390	1	0.03	38	1360	3	0.27	2	2	132
S02915	10	2	0.06	10	0.38	969	3	0.02	18	610	4	0.04	2	2	33
S02916	10	1	0.06	10	0.54	572	2	0.02	24	630	3	0.05	<2	3	57
S02917	10	2	0.06	10	0.64	317	1	0.02	22	700	4	0.05	<2	3	57
S02918	10	2	0.10	10	0.91	913	2	0.02	34	990	13	0.07	<2	4	100
S02919	<10	1	0.05	10	0.39	426	1	0.03	16	1390	5	0.17	2	2	71
S02920	10	<1	0.04	<10	0.24	142	1	0.02	7	370	<2	0.03	<2	1	22
S02921	<10	2	0.05	10	0.47	511	1	0.03	17	1090	3	0.17	<2	2	113
S02922	10	2	0.11	20	0.84	471	4	0.02	26	1310	6	0.13	4	5	99
S02923	10	2	0.10	10	0.95	665	2	0.03	27	1690	28	0.11	4	6	132
S02924	10	3	0.16	10	1.40	1120	4	0.03	44	1340	16	0.09	<2	7	146
S02925	<10	<1	0.07	10	0.59	747	1	0.04	24	1070	5	0.13	<2	2	62
S02926	10	2	0.07	10	0.60	607	2	0.04	20	1140	7	0.14	<2	3	80
S02927	10	1	0.09	10	1.06	771	3	0.04	24	1990	44	0.07	<2	6	132
S02928	10	1	0.12	10	0.74	1050	4	0.03	24	1250	9	0.09	<2	4	87
S02929	10	2	0.19	10	2.65	1295	4	0.13	62	560	13	0.43	<2	15	110
S02930	10	2	0.10	10	3.50	2770	2	0.04	126	900	37	0.09	<2	23	114
S02931	10	2	0.12	10	0.82	835	5	0.02	31	580	22	0.14	<2	4	70
S02932	10	2	0.10	10	0.79	887	4	0.02	29	700	35	0.12	<2	3	97
S02933	10	1	0.14	10	0.95	748	7	0.02	27	1000	11	0.15	<2	4	183
S02934	10	2	0.19	10	2.19	518	3	0.09	33	1080	4	0.05	<2	20	203
S02935	10	2	0.09	10	1.30	777	2	0.03	42	1190	13	0.13	<2	7	109
S02936	10	1	0.10	10	1.74	1150	1	0.06	39	740	12	0.09	<2	12	212
S02937	10	2	0.16	20	1.16	1140	6	<0.01	25	1210	12	0.07	<2	6	141
S02938	<10	<1	0.41	20	0.53	663	13	0.13	11	920	16	1.23	<2	4	251
S02939	10	<1	0.14	10	0.73	804	14	0.02	23	610	34	0.15	2	3	55
S02940	10	1	0.13	10	1.55	1810	4	0.01	29	680	11	0.02	<2	8	199
S02941	10	<1	0.09	10	1.50	918	1	0.05	47	780	17	0.02	<2	8	155

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	ME-ICP41 TI % 0.01	ME-ICP41 TI ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
S02902		0.10	<10	<10	167	<10	85
S02903		0.06	<10	<10	210	<10	156
S02904		0.04	<10	<10	132	<10	135
S02905		0.04	<10	<10	43	<10	70
S02906		0.04	<10	<10	38	<10	65
S02907		0.04	<10	<10	47	<10	72
S02908		0.05	<10	<10	39	<10	54
S02909		0.05	<10	<10	79	<10	78
S02910		0.08	<10	<10	118	<10	110
S02911		0.10	<10	<10	96	<10	172
S02912		0.05	<10	<10	182	<10	170
S02913		0.12	<10	<10	210	<10	133
S02914		0.03	<10	<10	29	<10	102
S02915		0.09	10	<10	83	<10	68
S02916		0.08	<10	<10	76	<10	54
S02917		0.08	<10	<10	82	<10	52
S02918		0.09	<10	<10	110	<10	93
S02919		0.04	<10	<10	46	<10	36
S02920		0.06	<10	<10	43	<10	32
S02921		0.03	<10	<10	39	<10	84
S02922		0.02	<10	<10	58	<10	116
S02923		0.11	<10	<10	122	<10	109
S02924		0.09	<10	<10	114	<10	121
S02925		0.06	<10	<10	70	<10	64
S02926		0.06	<10	<10	62	<10	65
S02927		0.16	<10	<10	142	<10	163
S02928		0.10	<10	<10	95	<10	88
S02929		0.05	<10	<10	190	<10	74
S02930		0.12	<10	<10	190	<10	331
S02931		0.06	<10	<10	89	<10	118
S02932		0.05	<10	<10	84	<10	130
S02933		0.05	10	<10	66	<10	78
S02934		0.31	<10	<10	233	<10	57
S02935		0.11	<10	<10	136	<10	98
S02936		0.11	<10	<10	200	<10	220
S02937		0.01	<10	<10	56	<10	81
S02938		0.01	<10	<10	46	<10	56
S02939		0.02	<10	<10	57	<10	109
S02940		0.12	<10	<10	136	<10	174
S02941		0.13	<10	<10	159	<10	98

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
S02942		0.24	0.022	0.9	2.00	7	<10	290	<0.5	<2	0.93	<0.5	10	29	335	3.38
S02943		0.24	0.021	0.3	2.29	84	10	130	0.7	<2	1.52	0.5	35	39	195	5.62
S02944		0.24	0.008	0.2	2.44	27	<10	120	0.5	<2	1.36	<0.5	20	42	95	4.13
S02945		0.24	0.003	<0.2	2.23	8	<10	160	<0.5	<2	0.81	<0.5	12	38	42	3.18
S02946		0.30	0.020	0.7	2.60	15	<10	190	<0.5	2	1.07	<0.5	27	57	282	5.58
S02947		0.30	0.013	0.3	3.61	18	<10	180	0.6	2	0.46	<0.5	24	38	137	5.29
S02948		0.30	0.011	0.5	2.04	8	<10	170	0.6	<2	0.13	<0.5	21	28	635	6.10
S02949		0.30	0.038	1.4	0.79	5	<10	40	<0.5	4	0.31	<0.5	7	13	864	7.42
S02950		0.32	0.023	0.9	1.34	8	<10	230	0.7	<2	0.40	<0.5	17	19	499	3.92
S02951		0.40	0.024	0.5	2.75	13	<10	100	0.5	<2	1.07	<0.5	37	49	352	6.51
S02952		0.30	0.020	0.3	3.72	10	<10	160	0.5	<2	0.88	<0.5	22	52	163	4.73
S02953		0.28	0.056	1.5	3.79	23	<10	100	0.5	2	1.30	<0.5	31	73	228	5.08
S02954		0.30	0.027	0.4	3.94	65	<10	140	0.7	2	1.05	<0.5	36	74	203	5.21
S02955		0.28	0.017	0.4	3.69	17	<10	180	0.7	<2	0.84	<0.5	27	63	137	4.55
S02956		0.32	0.014	0.3	3.43	12	<10	130	0.5	<2	0.87	<0.5	20	43	153	4.43
S02957		0.32	0.012	0.2	2.94	11	<10	110	<0.5	<2	1.10	<0.5	23	47	195	5.28
S02958		0.38	0.198	1.0	1.69	22	<10	210	0.5	<2	0.48	<0.5	19	46	1980	6.20
S02959		0.30	0.052	0.9	1.90	10	<10	180	0.6	3	0.73	<0.5	25	22	1435	6.26
S02960		0.32	0.049	0.8	1.65	27	<10	280	0.7	2	0.31	0.9	22	26	137	5.94
S02961		0.34	0.025	0.2	2.36	14	<10	250	0.6	<2	0.31	<0.5	17	31	59	4.46
S02962		0.30	0.023	0.4	2.12	11	<10	250	0.6	<2	1.08	<0.5	13	34	102	3.36
S02963		0.36	0.005	<0.2	3.28	35	<10	150	0.7	2	1.15	<0.5	29	47	131	5.24
S02964		0.34	0.019	0.2	2.40	33	<10	70	0.6	<2	1.40	<0.5	26	34	172	4.54
S02965		0.40	0.016	0.4	1.90	15	<10	330	0.7	<2	0.63	<0.5	17	27	189	4.32
S02966		0.38	0.011	0.2	2.51	13	<10	210	0.6	3	0.25	<0.5	20	36	137	5.04
S02967		0.40	0.067	0.7	1.96	14	<10	210	0.6	4	0.59	<0.5	23	36	780	5.99
S02968		0.40	0.091	0.9	1.88	6	10	220	0.7	<2	0.45	<0.5	16	24	1315	5.16
S02969		0.40	0.084	1.3	1.61	10	<10	240	0.6	2	0.34	<0.5	19	25	1340	7.09
S02970		0.40	0.315	0.2	3.58	18	<10	110	<0.5	2	1.56	<0.5	31	47	344	5.61
S02971		0.40	0.031	0.3	3.92	64	<10	140	0.6	<2	1.54	<0.5	41	67	223	5.52
S02972		0.50	0.905	11.6	2.94	194	<10	60	<0.5	6	1.10	13.8	41	38	719	11.20
S02973		0.48	0.198	0.5	3.50	11	<10	80	<0.5	<2	1.93	<0.5	102	173	639	6.78
S02974		0.32	0.128	3.7	3.72	40	10	120	<0.5	3	2.26	0.9	31	33	328	6.24
S02975		0.44	0.182	1.2	4.38	11	<10	50	<0.5	<2	2.28	<0.5	35	153	238	5.72
S02976		0.24	0.032	0.5	3.38	17	10	80	<0.5	<2	1.86	<0.5	26	36	328	6.09
S02977		0.32	0.093	0.6	2.59	13	<10	140	<0.5	<2	0.86	<0.5	23	37	350	4.72
S02978		0.36	0.065	1.1	1.18	83	<10	200	0.5	3	0.99	0.5	24	24	837	4.93
S02979		0.40	0.045	0.7	2.89	22	<10	110	<0.5	2	1.60	0.5	27	86	398	6.48
S02980		0.34	0.158	1.0	3.07	31	10	120	0.5	2	1.43	<0.5	27	63	542	6.19
S02981		0.38	0.030	1.1	1.48	13	<10	290	0.6	2	0.73	1.2	20	30	205	5.15

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

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 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
S02942		10	1	0.08	10	0.76	441	5	0.02	21	950	20	0.06	2	4	87
S02943		10	1	0.12	10	0.92	1365	2	0.04	45	890	22	0.04	2	13	84
S02944		10	<1	0.10	10	0.97	793	1	0.05	36	800	11	0.03	3	9	86
S02945		10	1	0.08	10	0.78	449	1	0.04	28	680	6	<0.01	<2	5	61
S02946		10	<1	0.10	10	1.60	1500	3	0.03	36	670	118	0.09	<2	10	88
S02947		10	1	0.15	10	1.35	2310	3	0.01	37	690	26	0.04	3	6	95
S02948		10	<1	0.16	20	0.63	970	75	0.04	20	930	25	0.35	2	4	76
S02949		<10	<1	0.65	20	0.26	309	7	0.32	6	1060	41	2.18	<2	2	323
S02950		<10	<1	0.11	20	0.81	1670	5	<0.01	14	730	35	0.15	2	4	18
S02951		10	<1	0.11	20	1.74	706	7	0.02	28	1410	17	<0.01	2	11	142
S02952		10	<1	0.09	10	1.28	760	2	0.04	37	860	12	0.05	3	7	108
S02953		10	<1	0.12	10	1.57	789	2	0.05	58	1080	52	0.21	<2	8	126
S02954		10	<1	0.15	10	1.66	1000	2	0.04	60	750	24	<0.01	<2	10	200
S02955		10	1	0.10	10	1.44	861	1	0.04	56	800	23	0.03	<2	8	114
S02956		10	1	0.10	10	1.10	780	2	0.03	33	970	12	0.09	2	6	104
S02957		10	<1	0.09	10	1.20	719	2	0.05	30	980	12	0.02	<2	7	173
S02958		10	<1	0.08	10	0.67	1200	2	0.02	38	930	25	<0.01	<2	8	54
S02959		10	<1	0.12	20	0.99	1485	10	0.04	18	1170	22	<0.01	2	6	75
S02960		<10	<1	0.34	20	0.82	2020	5	0.01	16	660	16	0.65	2	3	59
S02961		10	<1	0.10	10	0.81	1445	2	0.01	22	400	32	0.01	2	4	31
S02962		10	<1	0.12	10	0.96	1115	2	0.01	25	680	18	0.04	2	5	50
S02963		10	<1	0.14	10	1.21	1135	1	0.05	48	700	9	<0.01	3	12	104
S02964		10	<1	0.10	10	0.86	1220	2	0.04	31	820	10	0.02	2	8	72
S02965		10	1	0.15	20	1.00	1485	1	0.01	24	840	18	0.06	2	7	38
S02966		10	<1	0.13	10	0.89	1440	3	<0.01	28	580	18	0.01	2	4	26
S02967		10	<1	0.11	20	1.16	1185	4	0.03	26	1060	36	<0.01	<2	6	80
S02968		10	<1	0.13	20	1.10	825	2	<0.01	25	710	22	0.53	<2	6	71
S02969		<10	<1	0.15	20	0.84	1225	16	0.02	16	1120	67	0.26	<2	4	46
S02970		10	<1	0.11	10	1.38	882	1	0.07	31	1550	17	<0.01	2	8	211
S02971		10	<1	0.14	10	1.58	951	2	0.04	56	1160	43	<0.01	3	9	221
S02972		10	<1	0.16	10	1.61	2140	10	0.02	36	910	160	0.48	2	11	121
S02973		10	<1	0.08	<10	2.57	660	1	0.07	184	1270	19	0.06	2	4	602
S02974		10	1	0.37	10	0.86	569	66	0.08	37	830	180	0.85	<2	4	247
S02975		10	1	0.12	<10	2.51	1165	2	0.11	78	600	36	0.17	3	9	262
S02976		10	<1	0.15	10	1.40	1285	4	0.03	24	1190	31	0.24	2	10	157
S02977		10	1	0.09	10	1.00	1240	5	0.03	24	790	35	0.09	<2	6	98
S02978		<10	<1	0.11	20	0.66	1755	6	0.01	25	980	34	0.23	4	6	82
S02979		10	<1	0.11	10	1.38	1155	4	0.05	39	980	61	0.21	2	8	178
S02980		10	<1	0.12	10	1.62	1065	4	0.06	41	1010	47	0.24	2	9	172
S02981		<10	<1	0.14	20	0.82	2030	2	0.03	28	880	46	0.41	<2	7	58

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
S02942		0.02	<10	<10	57	<10	160
S02943		0.07	<10	<10	115	<10	213
S02944		0.08	<10	<10	92	<10	99
S02945		0.13	<10	<10	81	<10	74
S02946		0.06	<10	<10	129	<10	269
S02947		0.08	<10	<10	102	<10	230
S02948		0.01	<10	<10	56	<10	290
S02949		<0.01	<10	<10	26	<10	88
S02950		<0.01	<10	<10	41	<10	90
S02951		0.06	<10	<10	129	<10	96
S02952		0.12	<10	<10	128	<10	109
S02953		0.12	<10	<10	139	<10	156
S02954		0.13	<10	<10	122	<10	126
S02955		0.13	<10	<10	126	<10	116
S02956		0.10	<10	<10	110	<10	90
S02957		0.13	<10	<10	150	<10	92
S02958		0.06	<10	<10	102	<10	154
S02959		0.10	<10	<10	103	<10	88
S02960		<0.01	<10	<10	44	<10	340
S02961		0.02	<10	<10	70	<10	253
S02962		0.03	<10	<10	65	<10	179
S02963		0.12	<10	<10	123	<10	105
S02964		0.07	<10	<10	105	<10	83
S02965		0.02	<10	<10	62	<10	142
S02966		0.02	<10	<10	81	<10	128
S02967		0.02	<10	<10	70	<10	115
S02968		<0.01	<10	<10	39	<10	73
S02969		0.01	<10	<10	60	<10	154
S02970		0.14	<10	<10	184	<10	98
S02971		0.14	<10	<10	136	<10	222
S02972		0.08	<10	<10	122	<10	2080
S02973		0.20	<10	<10	165	<10	57
S02974		0.03	<10	<10	70	<10	272
S02975		0.14	<10	<10	196	<10	202
S02976		0.08	<10	<10	178	<10	181
S02977		0.04	<10	<10	100	<10	154
S02978		0.02	<10	<10	77	<10	182
S02979		0.08	<10	<10	217	<10	231
S02980		0.10	<10	<10	156	<10	215
S02981		0.01	<10	<10	67	<10	312

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
S02982		0.32	0.027	0.6	1.80	16	<10	280	0.7	2	0.56	<0.5	14	20	105	3.39
S02983		0.42	0.053	0.4	3.34	12	10	170	<0.5	<2	1.81	<0.5	32	150	187	6.21
S02984		0.32	0.009	0.5	2.24	10	<10	220	0.5	<2	1.35	<0.5	11	25	91	3.23
S02985		0.40	0.019	0.5	1.48	7	<10	220	0.6	<2	3.43	<0.5	18	16	147	4.58
S02986		0.38	0.009	0.2	2.40	10	<10	180	0.5	<2	0.59	<0.5	20	33	143	5.59
S02987		0.28	0.024	0.6	2.26	11	<10	390	0.7	2	0.73	<0.5	16	30	545	4.84
S02988		0.38	0.124	1.4	3.99	15	<10	120	0.7	2	0.90	0.9	56	31	1075	7.30
S02989		0.38	0.080	2.4	2.40	19	<10	90	<0.5	2	0.50	0.9	31	11	763	9.70
S02990		0.46	0.124	1.4	5.86	36	10	40	<0.5	<2	3.26	1.3	31	65	350	5.70
S02991		0.36	0.625	1.7	5.18	71	10	120	0.7	<2	3.34	0.9	55	48	297	4.45
S02992		0.40	0.047	<0.2	4.67	6	10	30	<0.5	<2	2.79	<0.5	37	288	161	7.33
S02993		0.50	0.044	0.7	4.41	12	10	90	<0.5	<2	1.78	0.5	49	225	493	7.41
S02994		0.42	0.051	2.2	2.58	18	<10	190	0.5	2	1.36	5.9	39	8	312	7.76
S02995		0.36	0.098	5.1	4.18	35	<10	150	<0.5	2	2.08	<0.5	9	5	982	11.90
S02996		0.36	0.083	0.6	4.02	8	<10	110	<0.5	<2	1.98	<0.5	38	16	762	6.07
S02997		0.38	0.070	1.3	0.48	20	<10	180	0.5	3	0.16	<0.5	20	15	272	5.90
S02998		0.36	0.017	0.6	1.07	8	<10	260	0.8	2	0.39	1.0	30	19	239	6.21
S02999		0.32	0.008	<0.2	2.83	7	<10	160	0.6	2	0.55	<0.5	23	31	182	5.64
S03000		0.26	0.025	1.3	1.20	18	<10	270	0.7	<2	0.56	<0.5	21	21	113	5.14

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
S02982		10	<1	0.19	20	0.79	1830	3	0.01	14	520	33	0.20	<2	3	28
S02983		10	<1	0.12	10	2.82	1645	1	0.12	53	760	7	0.07	2	16	132
S02984		10	<1	0.13	10	0.80	762	3	0.02	18	770	15	0.09	3	4	77
S02985		<10	<1	0.14	10	0.90	1670	1	0.01	18	960	25	0.40	2	6	66
S02986		10	<1	0.16	10	0.80	763	3	0.04	27	780	26	0.25	2	4	82
S02987		10	<1	0.13	30	0.77	1085	6	0.03	26	880	24	0.14	2	4	95
S02988		10	1	0.13	10	1.79	2400	6	0.03	32	1740	142	0.13	2	13	204
S02989		10	<1	0.23	10	1.62	1880	4	0.14	11	2170	99	1.24	2	10	169
S02990		10	1	0.11	<10	1.96	995	6	0.23	32	410	52	0.17	3	9	262
S02991		10	1	0.19	20	1.20	965	3	0.02	53	680	116	0.23	3	8	186
S02992		10	<1	0.05	<10	3.05	896	1	0.35	77	700	5	0.02	<2	8	454
S02993		10	<1	0.13	<10	3.00	1585	2	0.13	106	810	94	0.14	2	11	285
S02994		10	<1	0.15	10	1.86	3310	2	0.01	13	2280	163	1.08	<2	11	119
S02995		10	<1	0.07	<10	1.16	588	2	0.04	8	2250	99	0.35	2	6	130
S02996		10	<1	0.26	10	1.70	1085	4	0.04	16	1900	13	0.07	<2	12	240
S02997		<10	<1	0.11	20	0.09	2790	2	<0.01	24	690	12	0.94	<2	2	10
S02998		<10	<1	0.09	30	0.54	1030	4	<0.01	29	900	18	0.89	2	4	35
S02999		10	<1	0.16	10	0.86	785	3	0.02	34	840	21	0.15	2	4	77
S03000		<10	1	0.11	20	0.49	2120	4	<0.01	24	560	9	0.13	3	7	29

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA04042789

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		TI	TI	U	V	W	Zn
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
S02982		<0.01	<10	<10	41	<10	136
S02983		0.08	<10	<10	221	<10	92
S02984		0.02	<10	<10	57	<10	174
S02985		0.01	<10	<10	74	<10	184
S02986		0.04	<10	<10	75	<10	98
S02987		0.02	<10	<10	62	<10	136
S02988		0.05	<10	<10	148	<10	535
S02989		0.02	<10	<10	135	<10	314
S02990		0.08	<10	<10	176	<10	391
S02991		0.03	<10	<10	77	<10	237
S02992		0.22	<10	<10	377	<10	64
S02993		0.22	<10	<10	251	<10	393
S02994		0.01	<10	<10	132	<10	1190
S02995		0.06	<10	<10	85	<10	101
S02996		0.11	<10	<10	151	<10	73
S02997		<0.01	<10	<10	31	<10	98
S02998		<0.01	<10	<10	28	<10	134
S02999		0.04	<10	<10	60	<10	77
S03000		<0.01	<10	<10	58	<10	110

Comments: NSS is non-sufficient sample.

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CERTIFICATE VA04042788

Project: Nikki

P.O. No.:

This report is for 19 Rock samples submitted to our lab in Vancouver, BC, Canada on 8-JUL-2004.

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
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
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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:



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1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: Nikki

Page: 2 - A
Total Pages: 2 (A - C)
Finalized Date: 23-JUL-2004
Account: RCM

CERTIFICATE OF ANALYSIS VA04042788

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-AA23 Au Check ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
M012329		0.76	0.010		0.3	1.31	4	<10	<10	<0.5	2	1.88	<0.5	21	66	23
M012330		0.92	<0.005		<0.2	0.93	<2	<10	80	<0.5	<2	0.55	<0.5	9	69	16
M012331		0.78	<0.005		0.2	2.91	4	<10	50	<0.5	<2	1.96	<0.5	15	67	102
M012332		0.60	<0.005		<0.2	1.13	<2	<10	120	<0.5	<2	0.73	<0.5	8	50	19
M012333		0.66	0.036		1.8	2.58	<2	<10	20	<0.5	<2	2.28	<0.5	15	26	2590
M012334		0.62	<0.005		0.2	0.22	2	<10	830	<0.5	<2	>25.0	<0.5	<1	<1	17
M012335		0.44	1.030	0.894	1.0	3.96	196	<10	10	<0.5	4	0.12	<0.5	28	100	87
M012336		0.62	<0.005		<0.2	2.67	3	<10	20	<0.5	<2	2.00	<0.5	12	14	35
M012337		0.56	<0.005		0.2	1.82	<2	<10	10	<0.5	<2	1.99	<0.5	19	36	29
M012338		0.68	<0.005		0.4	0.66	74	10	1660	<0.5	<2	3.66	<0.5	9	6	118
M012339		0.64	<0.005		0.3	2.99	4	<10	50	<0.5	<2	1.42	<0.5	17	71	170
M012340		0.90	0.031		23.7	0.46	12	<10	10	<0.5	13	>25.0	9.5	7	2	>10000
M012341		0.86	0.013		0.4	1.18	<2	<10	260	<0.5	<2	1.31	<0.5	6	45	509
M012342		0.54	0.024		0.5	0.99	<2	10	70	<0.5	<2	3.95	<0.5	<1	27	210
M012343		0.80	<0.005		0.2	1.96	8	10	150	0.5	<2	4.50	<0.5	18	64	46
M012344		0.70	0.005		0.2	0.59	15	10	230	<0.5	<2	4.39	<0.5	21	14	198
M012345		0.96	0.056		1.0	2.49	262	<10	50	<0.5	5	0.20	<0.5	23	36	196
M012346		0.82	0.291		1.5	0.76	<2	<10	620	<0.5	<2	8.12	<0.5	12	61	2490
M012347		0.74	0.460		1.8	0.62	<2	<10	460	<0.5	<2	6.20	<0.5	8	43	3120



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CERTIFICATE OF ANALYSIS VA04042788

Sample Description	Method Analyte Units LOR	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
M012329		5.18	<10	<1	0.02	10	0.05	166	4	0.03	27	320	6	2.35	<2	4
M012330		1.84	<10	<1	0.16	10	0.80	299	7	0.04	9	520	5	0.96	2	2
M012331		3.73	10	<1	0.28	10	1.44	496	<1	0.28	32	960	4	0.05	3	6
M012332		2.61	10	<1	0.09	10	0.94	462	1	0.08	12	750	3	0.26	<2	3
M012333		4.68	10	<1	0.12	10	1.82	1525	1	0.08	6	2640	6	2.45	4	13
M012334		2.70	<10	1	0.05	<10	1.16	1615	<1	0.02	<1	70	5	<0.01	<2	2
M012335		12.20	10	<1	0.17	<10	2.19	2490	57	<0.01	30	1010	80	0.61	7	15
M012336		4.31	10	<1	0.08	<10	1.74	643	1	0.06	13	1260	4	0.04	3	7
M012337		3.17	10	<1	0.09	<10	1.50	962	1	0.04	10	830	6	0.02	<2	4
M012338		6.17	<10	4	0.16	<10	0.35	1570	2	0.01	5	400	7	0.10	7	9
M012339		3.94	10	<1	0.67	<10	2.18	170	1	0.27	28	1080	5	1.56	4	8
M012340		1.74	<10	<1	0.01	10	0.22	3650	1	0.02	6	50	245	1.0	3	3
M012341		2.47	10	<1	0.14	10	1.01	604	1	0.05	10	690	4	0.70	<2	4
M012342		2.27	<10	<1	0.12	10	0.82	274	1	0.02	5	700	2	3.43	<2	1
M012343		4.59	10	<1	0.10	10	1.46	949	<1	0.06	50	1050	2	0.15	<2	11
M012344		6.72	<10	<1	0.08	10	1.08	978	1	0.04	18	1670	6	0.73	<2	15
M012345		11.40	10	1	0.12	<10	1.46	868	4	<0.01	13	1070	29	2.75	3	7
M012346		4.17	<10	<1	0.16	<10	1.51	1550	1	0.03	46	320	3	0.38	2	7
M012347		3.65	<10	<1	0.15	<10	1.18	1300	1	0.03	26	360	3	0.45	<2	4



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CERTIFICATE OF ANALYSIS VA04042788

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46
		Sr	Tl	Tl	U	V	W	Zn	Cu
		ppm 1	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01
M012329		270	0.27	<10	<10	56	<10	8	
M012330		41	<0.01	<10	<10	29	<10	40	
M012331		111	0.32	<10	<10	164	<10	62	
M012332		45	0.09	<10	<10	62	<10	34	
M012333		97	0.13	<10	<10	166	<10	91	
M012334		1120	<0.01	<10	<10	6	<10	39	
M012335		8	0.02	<10	<10	128	<10	169	
M012336		45	0.23	<10	<10	162	<10	48	
M012337		83	0.08	<10	<10	65	<10	54	
M012338		99	<0.01	<10	<10	101	<10	84	
M012339		95	0.22	<10	<10	114	<10	61	
M012340		132	0.01	<10	<10	13	<10	1245	0.94
M012341		95	<0.01	<10	<10	44	<10	56	
M012342		57	<0.01	<10	<10	34	<10	29	
M012343		122	0.02	<10	<10	100	<10	84	
M012344		157	<0.01	<10	<10	178	<10	77	
M012345		9	<0.01	<10	<10	116	<10	126	
M012346		160	<0.01	<10	<10	36	<10	57	
M012347		124	<0.01	<10	<10	29	<10	51	

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2-JUL-2004

This copy reported on: 14-JUL-2004

Account: RCM

CERTIFICATE VA04038049

Project: Nikki

P.O. No.:

This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 21-JUN-2004.

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
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	34 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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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:



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CERTIFICATE OF ANALYSIS VA04038049

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
NK1		0.12	0.2	2.61	104	<10	70	<0.5	3	0.42	0.6	26	67	330	14.25	10



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CERTIFICATE OF ANALYSIS VA04038049

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	Ti
		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	0.01
NK1		<1	0.11	10	1.34	1675	13	0.03	35	1540	29	0.03	3	8	11	0.09



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CERTIFICATE OF ANALYSIS VA04038049

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
NK1		<10	<10	124	<10	213

APPENDIX III
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions

Project: Nikki Property: Nikki

Page 1 of 5

Sample Number: M012329 Grid North: 101000 N N Grid East: 121100 E E Type: o/c Dimension: 30m
 UTM: 6879203 N UTM: 0502113 E Sample Width: 15cm Abundance: outcrop
 Elevation: m
 Comments: clay altered & possibly chlorite altered outcrop of sedimentary
rx within 15m of dark green/brown fine grained intrusive (dyke?) visible sulphides (arseno?)
on fresh surface of sed.

Sample Number: M012330 Grid North: 101000 N N Grid East: 121100 E E Type: o/c Dimension: 3m
 UTM: 6879478 N UTM: 0500933 E Sample Width: 1m Abundance: few o/c exposed
 Elevation: m
 Comments: sample taken from 3m o/c surrounded by moderately rusty
soil sample is felsic intrusive w/ clay alteration & feldspars, limonitic pits on weathered
surfaces & sulphide pods on fresh surfaces.

Sample Number: M012331 Grid North: 101000 N N Grid East: 121100 E E Type: o/c Dimension: 10m
 UTM: 6879389 N UTM: 0500415 E Sample Width: 15cm Abundance: rare creek bank exposure
 Elevation: m
 Comments: very fractured intrusive w/ 65% hornblende 25% Qtz/plag
10% K-spar, minor sulphide pods on fresh surfaces. weathered surfaces dark
green-brown. found on west side of stream

Sample Number: M012332 Grid North: 101000 N N Grid East: 121100 E E Type: o/c Dimension: 10m
 UTM: 6879823 N UTM: 0499916 E Sample Width: 15cm Abundance: rare creek bank exposure
 Elevation: m
 Comments: sample taken 85m into Alaska. equigranular Qtz-monzonite
with 20% K-spar, minor sulphide pods on fresh surfaces, weathers dark green-
brown

Sample Number: M012333 Grid North: 101000 N N Grid East: 121100 E E Type: o/c Dimension: 20m by 100m
 UTM: 6880138 N UTM: 0500128 E Sample Width: 1m Abundance: locally abundant
 Elevation: m
 Comments: granodiorite with chlorite & possible weak clay (sericite?)
alteration. Moderate chalcopyrite & pyrite throughout, malachite on weathered
surfaces, located @ head of stream w/ white or pale blue precipitate (Cu?)

Sample Number: PS04-007 Grid North: 101000 N N Grid East: 121100 E E Type: o/c Dimension: 15m
 UTM: 6880763 N UTM: 0500509 E Sample Width: 30cm Abundance: abundant
 Elevation: m
 Comments: Not taken for assay. Meta siltstone or mudstone w/ bioturbation
casts throughout. other sedimentary structures in the area indicate the sequence
is right way up.

Rock Sample Descriptions

Project: Nikk. Property: Nikk.

Page 2 of 5

Sample Number: M012334 Grid North: 6881224 N Grid East: 0500829 E Type: grab sample Dimension: 30m x 15m
 UTM: 6881224 N UTM: 0500829 E Sample Width: 4m Abundance: locally abundant
 Elevation: m
 Comments: grab sample of carbonate veining, black sooty, (harder than)
looking material attached to calcareous vein + listwanite. No visible sulphides.

Sample Number: M012335 Grid North: 6879973 N Grid East: 0501012 E Type: o/c Dimension: 5m x 2m
 UTM: 6879973 N UTM: 0501012 E Sample Width: 1m Abundance: only o/c for 50m in each direction
 Elevation: m
 Comments: altered intrusive (don't know which kind), visible pyrite cubes
(up to 1/2 mm), boxwork limonite, fresh faces are fine grained dark green/black.

Sample Number: M012336 Grid North: 6880296 N Grid East: 0501161 E Type: o/c Dimension: 2m x 3m
 UTM: 6880296 N UTM: 0501161 E Sample Width: 30cm Abundance: locally abundant
 Elevation: m
 Comments: sample is of grey-green weathering intrusive. Fresh face is
"junky" brown-green w/ plagioclase phenocrysts up to 1mm, sample located ~ 30m uphill
from intrusive / sediment contact.

Sample Number: PS04-008 Grid North: 6880424 N Grid East: 0501277 E Type: float Dimension: 5m across slope
 UTM: 6880424 N UTM: 0501277 E Sample Width: Abundance: moderate.
 Elevation: m
 Comments: float grab samples 30m from top of mountain, apple green
matrix (epidote?) with fibrous amphibole (actinolite) throughout. This type of rx
is ~ 50% of float in area

Sample Number: M012337 Grid North: 6880399 N Grid East: 0501206 E Type: subcrop Dimension: 1m by 1m
 UTM: 6880399 N UTM: 0501206 E Sample Width: Abundance: common.
 Elevation: m
 Comments: green (chlorite or epidote altered) fine grained intrusive
(no Kspar). Green blebs throughout especially near Qtz-carbonate veins (2mm wide)

Sample Number: M012338 Grid North: 6879261 N Grid East: 0500613 E Type: o/c Dimension: 1m x 2m
 UTM: 6879261 N UTM: 0500613 E Sample Width: 30cm Abundance: only one in area, more several 100m up stream
 Elevation: m
 Comments: o/c of listwanite altered intrusive? o/c is located in stream
bed. o/c appears to be a Qtz-carbonate(?) breccia which weathers pale orange
fresh surfaces are crystalline or limonitic.

Rock Sample Descriptions

Project: N.I.K.K. Property: N.I.K.K.

Page 3 of 5

Sample Number: PS04-009 Grid North: N Grid East: N Type: o/c Dimension: 50m x 100m
 UTM: 6878689 UTM: 0502592 E Sample Width: 15cm Abundance: very abundant
 Elevation: m

Comments: representative sample of sediments on property collected

* Not for Assay for the property rock library

Sample Number: M012339 Grid North: N Grid East: N Type: o/c Dimension: 75m x 10m
 UTM: 6879931 UTM: 0502160 E Sample Width: 1m Abundance: locally abundant
 Elevation: m

Comments: sample is deep rusty red coloured o/c of gneiss with visible sulphides in a siliceous matrix (cherty?) Sulphides on fracture surfaces & within matrix. 10 m from dike/sill?

Sample Number: PS04-010 Grid North: N Grid East: N Type: o/c Dimension: 15cm x 15cm
 UTM: 6880335 UTM: 0501475 E Sample Width: 30cm Abundance: abundant
 Elevation: m

Comments: representative sample of green fine grained intrusive

* Not for assay (diorite) with black (hornblende) phenocrysts. this sample also has plagioclase phenocrysts which is rare

Sample Number: M012340 Grid North: N Grid East: N Type: float Dimension: 15cm
 UTM: 6880610 UTM: 0501603 E Sample Width: 15cm Abundance: rare
 Elevation: m

Comments: sample taken below Epidote & chlorite zone ~ 200m below peak. sample appears to be a piece of carbonate vein with chalcopyrite blebs up to 4mm & malachite staining

Sample Number: M012341 Grid North: N Grid East: N Type: o/c Dimension: 135m x 20m
 UTM: 6879846 UTM: 0500297 E Sample Width: 30cm Abundance: locally abundant
 Elevation: m

Comments: sample taken beside camp. sample is of granodiorite (relatively fresh) 1m from altered granodiorite. sample has sulphides (chalcopyrite?) & o/c has malachite staining & nodules

Sample Number: M012342 Grid North: N Grid East: N Type: o/c Dimension: 30m x 15m
 UTM: 6879873 UTM: 0500307 E Sample Width: 1m Abundance: locally abundant
 Elevation: m

Comments: sample is of "rotten" box-worked limonitic altered granodiorite. some sections appear gossier colour is sulphate yellow to red-orange. o/c has abundant malachite staining.

Rock Sample Descriptions

Project:

N.K.K.

Property:

N.K.K.

Page 4 of 5

Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension: 12m x 10m

M012343 UTM: 6878529

N

UTM: 0501679

E

Sample Width:

Abundance:

Elevation: ±16m

m

Comments:

Sample rock a rusty red colour, limonite alteration very fine grained rock, intrusive in nature and most likely diorite. Adjacent to stream

Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension: 20m x 15m

M012344 UTM: 6878637

N

UTM: 05

E

Sample Width:

Abundance:

Elevation: ±29m

m

Comments:

Altered fine grained sedimentary rock adjacent to an intrusive diorite looking rock with visible parts of sulphides. Adjacent to stream

Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension: 3m x 2m

M012345 UTM: 6879345

N

UTM: 0500987

E

Sample Width: 30cm

Abundance: others downstream

Elevation:

m

Comments:

o/c @ junction of 2 small dry streams. sample is of deep red rusty, limonitic altered - x (diorite?) malachite on surface & moderate sulphides throughout (chalc & arsenic?)

Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension: 5m x 3m

PS04-011 UTM: 6879456

N

UTM: 0500847

E

Sample Width: 15cm

Abundance: moderate throughout property

Elevation:

m

Comments:

representative sample of plagioclase porphyry in dark green fine green matrix

* not for assay

Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension: 20m x 5m

M012346 UTM: 6881493

N

UTM: 0501406

E

Sample Width: 30cm

Abundance: o/c scattered throughout valley

Elevation:

m

Comments:

sample is of gtz-carbonate altered (listwanite?) sediments in stream cut. This type of o/c is common in valley directly north of property.

Sample Number: Grid North:

N

Grid East:

E

Type: float

Dimension:

PS04-012 UTM: 6880550

N

UTM: 0502074

E

Sample Width: 15cm

Abundance: locally abundant

Elevation:

m

Comments:

representative sample for field library of light green crystalline matrix with black (hornblende?) phenocrysts up to 2mm

* not for assay

Rock Sample Descriptions

Project:

NKK

Property:

NKK

Page 5 of 5

Sample Number: M012347 Grid North: 6879745 UTM: 0500530 N Grid East: 0500530 UTM: 0500530 N E Type: o/c maybe s/c Dimension: 20m x 10m E Sample Width: 30cm Abundance: locally abundant
Elevation: m

Comments: altered granodiorite $\approx$ 70m west of DH2 on slope
limonite & visible sulphides (chalcopyrite) both interstitial & on fracture surfaces.

Sample Number: PS04-013 Grid North: 5 UTM: 0500530 N Grid East: 0500530 UTM: 0500530 N E Type: o/c Dimension: 5m x 3m E Sample Width: 30cm Abundance: moderate
Elevation: m

Comments: representative sample of unaltered granodiorite
*not for assay with $\approx$ 15-20% Kspar. Sample taken for rock library

Sample Number: HS04-010 Grid North: 5 UTM: 0500530 N Grid East: 0500530 UTM: 0500530 N E Type: o/c Dimension: 5m x 3m E Sample Width: 30cm Abundance: moderate
Elevation: m

* Comments: diorite sample not for assay

Sample Number: Grid North: 5 UTM: 0500530 N Grid East: 0500530 UTM: 0500530 N E Type: o/c Dimension: 5m x 3m E Sample Width: 30cm Abundance: moderate
Elevation: m

Comments:

Sample Number: Grid North: 5 UTM: 0500530 N Grid East: 0500530 UTM: 0500530 N E Type: o/c Dimension: 5m x 3m E Sample Width: 30cm Abundance: moderate
Elevation: m

Comments:

Sample Number: Grid North: 5 UTM: 0500530 N Grid East: 0500530 UTM: 0500530 N E Type: o/c Dimension: 5m x 3m E Sample Width: 30cm Abundance: moderate
Elevation: m

Comments:

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Rock Sample Descriptions

Project:

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Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension:

UTM: 6881139

N

UTM: 0501693

E

Sample Width:

Abundance:

Elevation:

m

HS04-29a

Comments:

A fine grained intrusive dyke rock. 5mm hbl'd laths and "pats" of green mineral (epitax?) chilled margin of a QF porph?

Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension:

UTM: 6881618

N

UTM: 0501741

E

Sample Width:

Abundance:

Elevation:

m

HS04-29b

Comments:

Deep purple rock (hematite?) w dark green xtals up to 2mm in size. Some plag xtals are visible. 1mm calcite veins throughout. Altered QF porph?

Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension: 5m x 5m

UTM: 6881654

N

UTM: 0501480

E

Sample Width:

Abundance:

Elevation:

m

HS04-29c

Comments:

o/c surrounded by the QF porph unit (or purple rock I've been calling QF porph) Rock has a green, almost greasy looking surface (serpentine?) Rock matrix is med. green w 1mm maroon/red mineral fragments. Very lightly peppered w sulphides.

Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension:

UTM: 6881508

N

UTM: 0501285

E

Sample Width:

Abundance:

Elevation:

m

HS04-29d

Comments:

o/c of brown weathered seds w massive sulphide (pyrite?) in pads up to 3cm in diameter w large maroon alteration haloes.

Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension:

UTM: 6881521

N

UTM: 0501078

E

Sample Width:

Abundance:

Elevation:

m

HS04-29e

Comments:

o/c of extremely metamorphosed seds w similar characteristics to HS04-29d. Recrystallized calcite. Orange-red (limonite?) staining.

Sample Number: Grid North:

N

Grid East:

E

Type: o/c

Dimension: >100m x >50m

UTM: 6881386

N

UTM: 0501032

E

Sample Width:

Abundance:

Elevation:

m

HS04-29f

Comments:

o/c of forrest green matrix w 5mm hbl'd plag xtals. Possibly a finger of intrusive basalt or a med. grained diorite. Most likely a diorite?

H. Smith.
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Rock Sample Descriptions

Project: Nikki Property: Nikki

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Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Abundance:
HS04-30a	UTM: 6879694	N	UTM: 0501130	E	Sample Width:	2m x 15m	
	Elevation:	m					
Comments:	Fine grained black aphanitic rock w 4mm hbl'd x'tals. Most likely an intrusive dyke rock (Basalt).						
HS04-30b	UTM: 6880349	N	UTM: 0500735	E	Sample Width:		
	Elevation:	m					
Comments:	o/c of green homogenous rock w 4mm hbl'd x'tals. intrusive dyke rock - basalt.						
HS04-31a	UTM: 6880328	N	UTM: 0500523	E	Sample Width:	40m x 12m	
	Elevation:	m					
Comments:	o/c is contact bit of purph and equigranular fine grained intrusive basaltic dyke. Very weak sulphide (py) disseminated. Calcite veining present.						
HS04-31c	UTM: 6879788	N	UTM: 0500550	E	Sample Width:	1m x 1m	
	Elevation:	m					
Comments:	Fine grained intrusive basaltic dyke w no visible sulphides but abundant malachite staining.						
HS04-01a	UTM: 6880455	N	UTM: 0501262	E	Sample Width:	20m x 5m	
	Elevation:	m					
Comments:	Epidote-chlorite-tremolite skarn						
	UTM:	N	UTM:	E	Sample Width:		
	Elevation:	m					
Comments:							

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Rock Sample Descriptions

Project: NIKKI Property: NIKKI

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Sample Number: P396063 Grid North: 6881686 N Grid East: 0501719 E Type: o/c Dimension: _____
UTM: 6881686 N UTM: 0501719 E Sample Width: 3m Abundance: _____
Elevation: m

Comments: Very fine grained sed rock (meta chert?) w calcite veining
and sulphides. (pyrite and arsenopyrite, cpy?) Sulphides are disseminated
and assc w veins.

Sample Number: P396064 Grid North: 6881682 N Grid East: 0501452 E Type: o/c Dimension: 45m x 5m
UTM: 6881682 N UTM: 0501452 E Sample Width: 4m Abundance: _____
Elevation: m

Comments: Sample is of a very fine grained sed rock most likely a
siltstone that is surrounded by a QF porph. The sed rock has very fine but
abundant disseminated sulphides (py, arseno?) Taken over a 4m area chip?
Sample. RK has lots of fossil casts.

Sample Number: P396065 Grid North: 6881487 N Grid East: 0501434 E Type: o/c Dimension: _____
UTM: 6881487 N UTM: 0501434 E Sample Width: 4m Abundance: _____
Elevation: m

Comments: Samples (chip) were taken up creek bed in a consecutive
order. The 1st sample (P396065 has GPS & the last P396070 does also.)
Rock is sedimentary in nature, has listwanite style altn and very weak
disseminated sulphides (pyrite)

Sample Number: P396066 Grid North: _____ N Grid East: _____ E Type: o/c Dimension: _____
UTM: _____ N UTM: _____ E Sample Width: 5m Abundance: _____
Elevation: m

Comments: Listwanite altered sedimentary rock (meta sed?)
No visible sulphides. Homogeneous groundmass.

Sample Number: P396067 Grid North: _____ N Grid East: _____ E Type: o/c Dimension: _____
UTM: _____ N UTM: _____ E Sample Width: 8m Abundance: _____
Elevation: m

Comments: dark more fine grained sed rock. Very weakly disseminated
sulphides (pyrite) not abundant.

Sample Number: P396068 Grid North: _____ N Grid East: _____ E Type: o/c Dimension: _____
UTM: _____ N UTM: _____ E Sample Width: 5m Abundance: _____
Elevation: m

Comments: More quartz carbonate looking rock up to 1cm qtz veins.
Dark siliceous ground mass. Listwanite-style alteration. Very few
visible sulphides.

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Rock Sample Descriptions

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Sample Number: P396069 Grid North: N Grid East: E Type: o/c Dimension: _____
 UTM: N UTM: E Sample Width: 6m Abundance: _____
 Elevation: m
 Comments: dark grey green rock w disseminated pyrite and
listwanite brown-orange coloured alteration.

Sample Number: P396070 Grid North: N Grid East: E Type: o/c Dimension: _____
 UTM: 6881500 N UTM: 0501397 E Sample Width: 6m Abundance: cont' from P396065
 Elevation: m
 Comments: Qtz carbonate looking rock w listwanite style alteration.
More maroon coloured weathering. Disseminated pyrite
and boxwork (slight)

Sample Number: P396071 Grid North: N Grid East: E Type: o/c Dimension: 20m long x 6m
 UTM: 6881501 N UTM: 0501392 E Sample Width: 12m Abundance: _____
 Elevation: m
 Comments: 12m chip sample of very rusty orange rock that appears
very Qtz rich. Visible but sparse sulphide-pyrite disseminated
throughout.

Sample Number: P396072 Grid North: N Grid East: E Type: o/c Dimension: 50m x 7.0m
 UTM: 6879812 N UTM: 0501001 E Sample Width: 5m Abundance: _____
 Elevation: m
 Comments: Diorite rk w spatchy malachite staining on broken fractures
5m chip sample w disseminated py & arseno(?) seen throughout.

Sample Number: P396073 Grid North: N Grid East: E Type: o/c Dimension: _____
 UTM: 6879795 N UTM: 0501058 E Sample Width: 60cm x 15cm Abundance: _____
 Elevation: m
 Comments: Extremely oxidized limonite unit. Rock is in contact w
the diorite, seems to be altered dior w more green coloured g. mass
Moderately - heavily disseminated py, cpy and arseno.

Sample Number: P396074 Grid North: N Grid East: E Type: o/c Dimension: _____
 UTM: 6879734 N UTM: 050116 E Sample Width: 10m Abundance: _____
 Elevation: m
 Comments: 10m chip sample taken upslope in a zone of limonite
alteration. Sulphides seem to be disseminated throughout the rock. Is
diorite w oxidized zones along fracture.

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Rock Sample Descriptions

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Sample Number: P396075 Grid North: N Grid East: E Type: o/c Dimension: 3m x 2m
 UTM: 6879345 N UTM: 0500987 E Sample Width: 3m Abundance: _____
 Elevation: m

Comments: Diorite rock that is altered and has disseminated
sulphides (pyrite) and 1mm round red spots which could be leached
sulphides (cpy?)

Sample Number: P396076 Grid North: N Grid East: E Type: o/c Dimension: 3.5m x 6m
 UTM: 6879333 N UTM: 0500954 E Sample Width: 3.5m Abundance: _____
 Elevation: m

Comments: chip sample taken over 3.5m. Med-grained diorite w
orange-red staining. Very disseminated sulphides present.

Sample Number: P396077 Grid North: N Grid East: E Type: o/c Dimension: 60cm x 40cm
 UTM: 6880012 N UTM: 0501020 E Sample Width: 60cm x 40cm Abundance: _____
 Elevation: m

Comments: Boxwork limonite altered rock adjacent to diorite o/c.
Exact size unknown b/c of scree. Chalcopyrite & pyrite can
be seen in the limonitic rock.

Sample Number: P396078 Grid North: N Grid East: E Type: o/c Dimension: 6m x 1.5m
 UTM: 6879982 N UTM: 0501017 E Sample Width: 1m Abundance: _____
 Elevation: m

Comments: 1m chip sample taken across o/c. Very limonitic boxwork
rich o/c. Altered diorite rock w disseminated pyrite.

Sample Number: P396079 Grid North: N Grid East: E Type: o/c Dimension: 100m x 50m
 UTM: 6879778 N UTM: 0500735 E Sample Width: 5m Abundance: _____
 Elevation: m

Comments: Granodiorite rock that has been altered on fracture
surfaces to have a red/orange "zone." Chip sample was taken over a 5m
area w disseminated pyrite associated w the fractures but also has
moved in from the fractures creating disseminated sulphides throughout the gdr.

Sample Number: P396080 Grid North: N Grid East: E Type: o/c Dimension: 100m wide x 25m
 UTM: 6880285 N UTM: 0500519 E Sample Width: 1m Abundance: local w/in the QF porph
 Elevation: m

Comments: o/c is QF porph w 20cm x 3m zone of limonite altered rocks.
Sample is of the dyke rock that has 4cm areas a rusty, pitted pyrite. Limonite
zone has ~ 3% pyrite.

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Rock Sample Descriptions

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Sample Number: P396081 Grid North: N UTM: 6880413 Grid East: N UTM: 0500654 E Type: o/c Dimension: 5m x 8-10m Abundance: Sample Width: 6m Elevation: m

Comments: Chip sample taken over 6m. Intrusive, fine grained, green rock, most likely a basaltic dyke. 1-2% disseminated pyrite & cpy. Surface has slight brown staining

Sample Number: P396082 Grid North: N UTM: 6880518 Grid East: N UTM: 0500830 E Type: o/c Dimension: 4m x 2m Abundance: Sample Width: 1.5m Elevation: m

Comments: Heavily weathered and bedded ssds o/c. Py is seen disseminated (1-3%) and concentrated on fracture surfaces. Bright staining (red-orange) on fracture surfaces. cpy mostly on fractures

Sample Number: P396083 Grid North: N UTM: 6880338 Grid East: N UTM: 0500353 E Type: o/c Dimension: adjacent to diorite Abundance: Sample Width: 15cm Elevation: m

Comments: The sample is a rock one of a 1 foot wide limonite style zone next to the f. grained diorite unit. Malachite staining is light and some boxwork is present also. ~3% py and cpy

Sample Number: P396084 Grid North: N UTM: 6880338 Grid East: N UTM: 0500353 E Type: o/c Dimension: 2.5m x 8m Abundance: Sample Width: 2m Elevation: m

Comments: Chip sample taken over 2m. The sample is of the fine grained diorite rock adjacent to the limonite zone. ~3% disseminated pyrite. Rock has orange-red staining.

Sample Number: P396085 Grid North: N UTM: 6880104 Grid East: N UTM: 0500341 E Type: o/c Dimension: 3m x 7m Abundance: Sample Width: 3m Elevation: m

Comments: o/c is of altered diorite w limonite staining. Disseminated sulphides py (cpy?) from 1-2% throughout rock.

Sample Number: P396086 Grid North: N UTM: 6880216 Grid East: N UTM: 050052 E Type: o/c Dimension: 10m x 7m Abundance: Sample Width: 5m Elevation: m

Comments: medium-coarse grained granodiorite (?) rock. (very light pink-grey K-felds ~3mm) Orange-red staining on surface. Abundant (~3%) sulphides throughout (py, cpy, arseno?)

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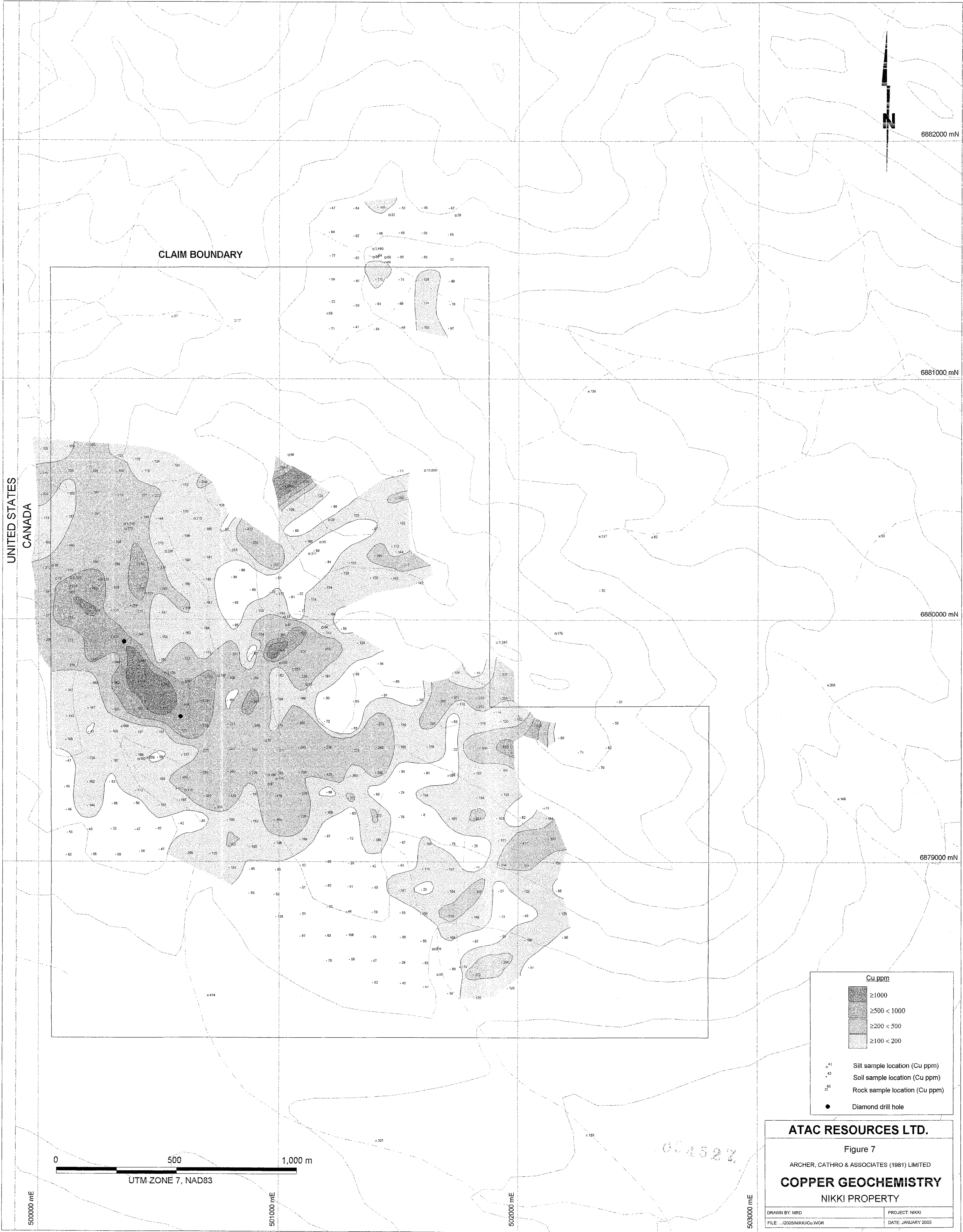
Rock Sample Descriptions

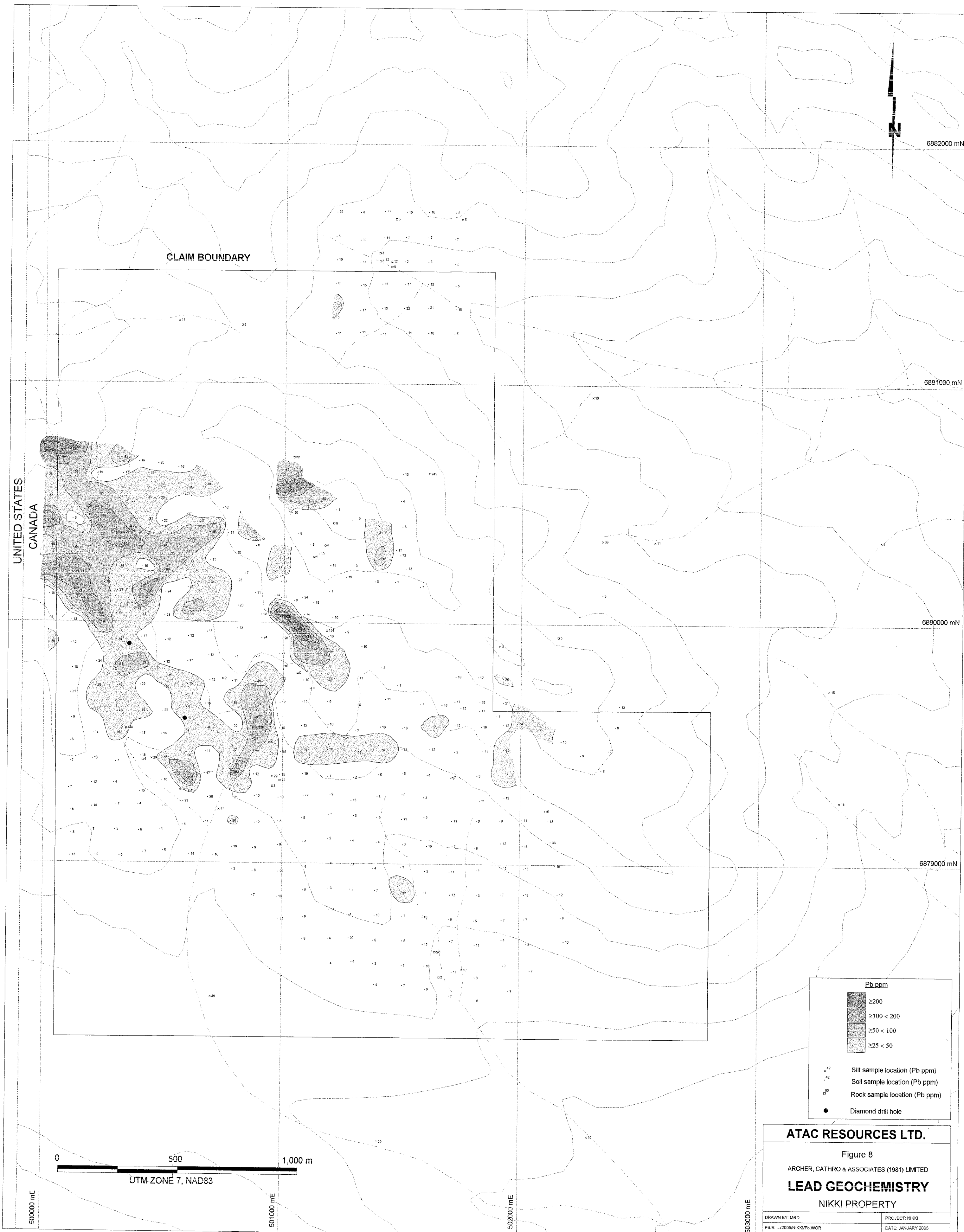
Project: NIKKI Property: NIKKI

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- Sample Number: P396087 Grid North: N Grid East: E Type: o/c Dimension: 5.5m x 5m
UTM: 6880164 N UTM: 0500075 E Sample Width: 5m Abundance:
Elevation: m
- Comments: Granodiorite unit with heavy red-orange weathering (close to limonitic weathering) The g.dior is coarse grained w disseminated py & cpy.
-
- Sample Number: P396088 Grid North: N Grid East: E Type: o/c Dimension: 20m x 55m
UTM: 6880145 N UTM: 0500119 E Sample Width: Abundance:
Elevation: m
- Comments: o/c is of limonite altered granodiorite (very very altered) Zone is quite large (20x55m) and has 4 very prominent o/c's. Some listwanite zones (1x1m and 4m x 3m). A grab sample was taken off of each of the four major o/c's. Very little disseminated (<1%) sulphides present, malachite on few surfaces.
-
- Sample Number: P396089 Grid North: N Grid East: E Type: o/c Dimension: 2m
UTM: 6880270 N UTM: 0501122 E Sample Width: 1m Abundance: contact blk seds & dyke
Elevation: m
- Comments: Sample is a 1m sample of rusty altered seds @ surface w py & cpy disseminated and slightly concentrated on fracture surface.
-
- Sample Number: P396090 Grid North: N Grid East: E Type: o/c Dimension: 20m x 40m
UTM: 6880694 N UTM: 0501016 E Sample Width: 2m Abundance:
Elevation: m
- Comments: medium grained diorite rock (meta-dior?) Plag & hblt xtals visible Slight green tinge to g.mass. Sample taken over area w red-orange staining. <15% of o/c is stained. 1mm cpy blebs & disseminated py & cpy.
-
- Sample Number: P396091 Grid North: N Grid East: E Type: float Dimension: 30m x 30m
UTM: 6880562 N UTM: 0501105 E Sample Width: Grab Sample Abundance: abundant.
Elevation: m
- Comments: Float in area all looked similar. Grab sample of medium grained (meta?) - diorite. Lots of red staining w disseminated py.
-
- Sample Number: P396092 Grid North: N Grid East: E Type: o/c Dimension: 15m x ~16m
UTM: 6879916 N UTM: 0501895 E Sample Width: 15cm Abundance: zones of limonite
Elevation: m
- Comments: In a 1m wide zone of limonite staining w/in the sed unit, a 15cm sample was taken w disseminated py and py in elongate (1mm x 3mm) lath-like blebs.

APPENDIX IV
GEOPHYSICAL REPORT – AURORA GEOSCIENCES LTD.





UNITED STATES
CANADA

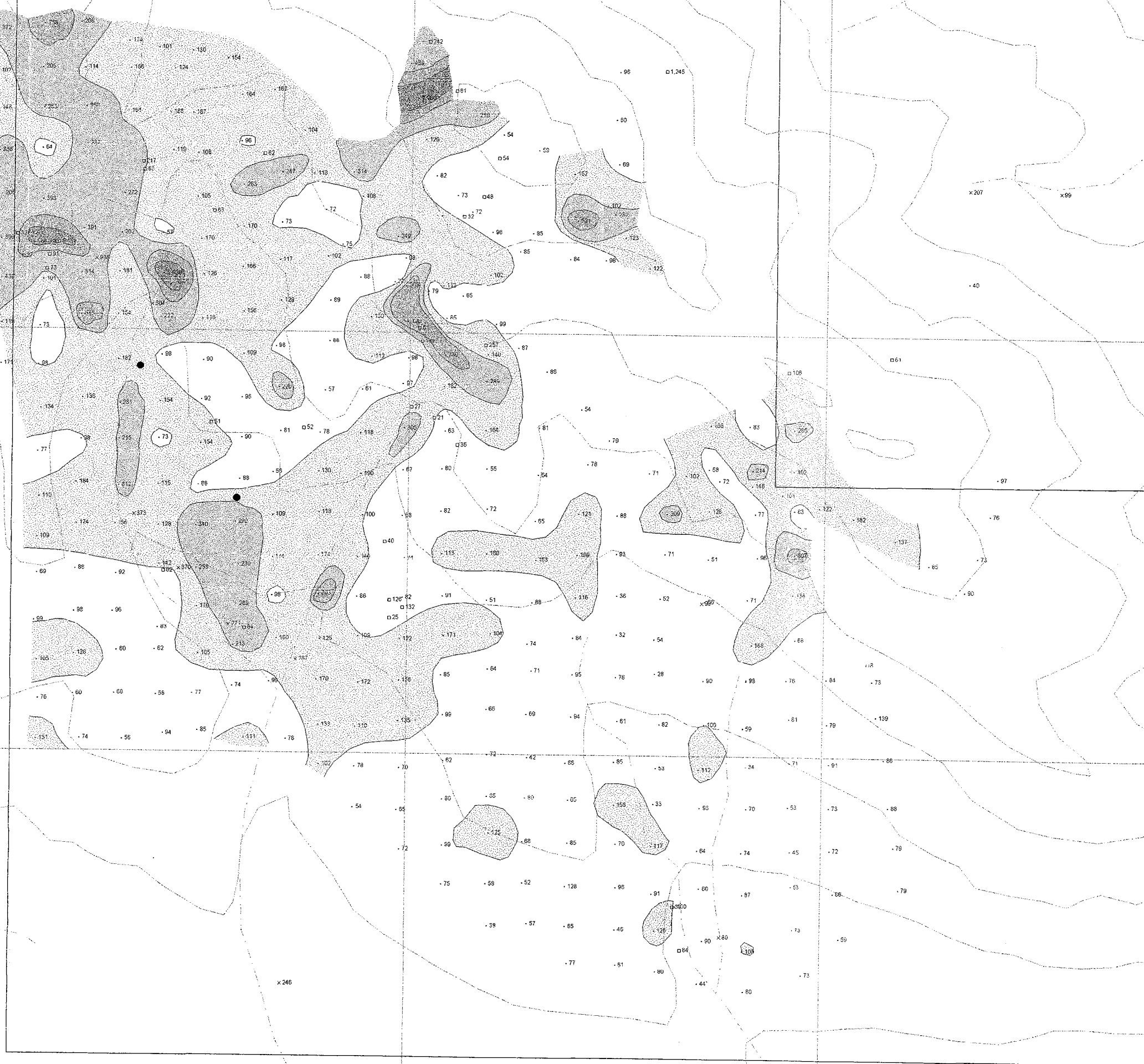
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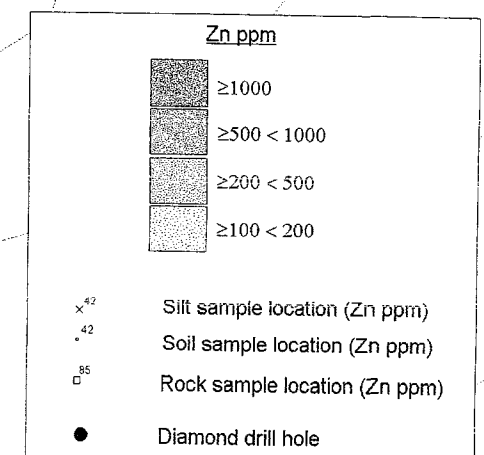
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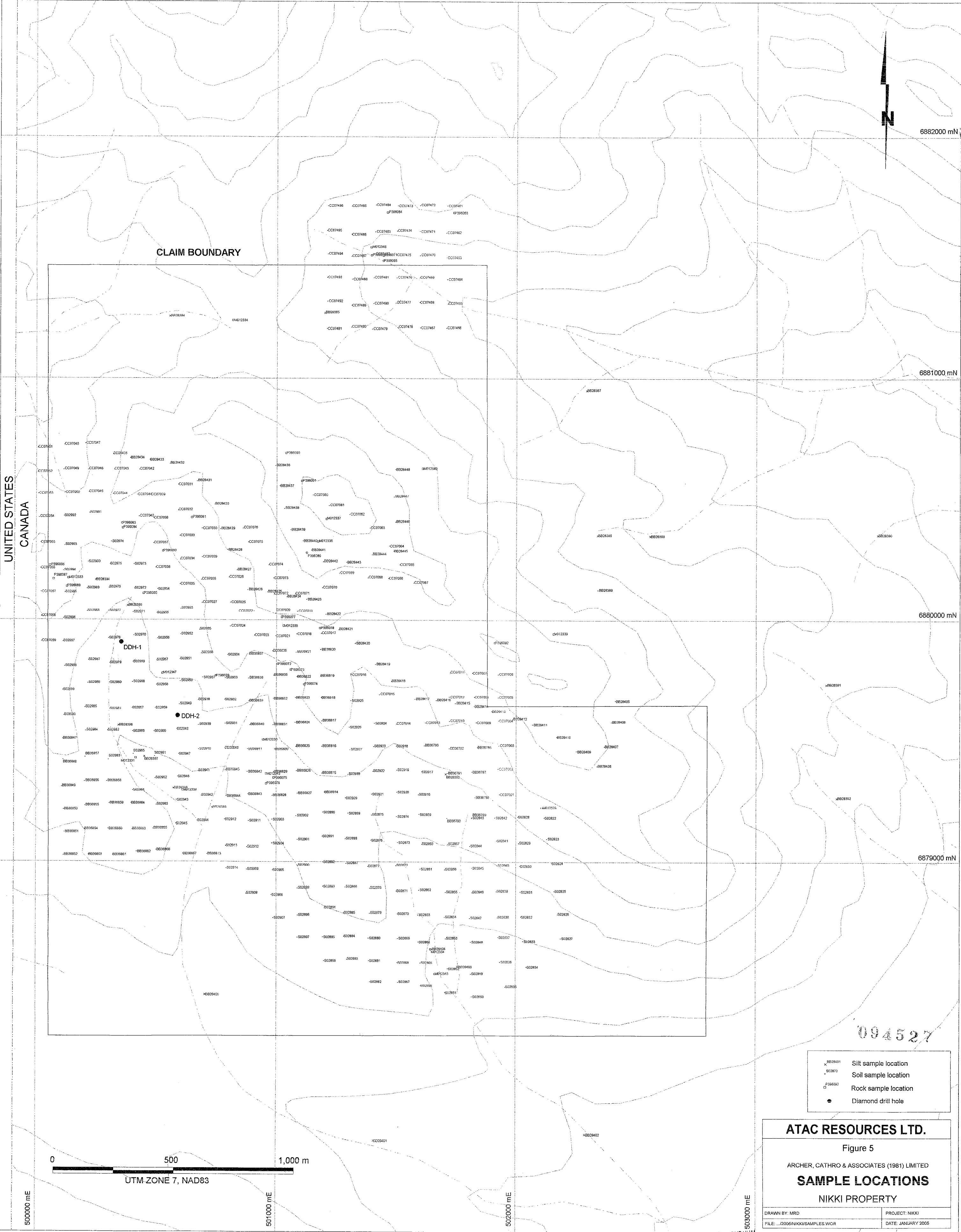
Figure 9

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ZINC GEOCHEMISTRY
NIKKI PROPERTY

DRAWN BY: MRD
FILE: /2005/NIKKI/Zn.WOR

PROJECT: NIKKI
DATE: JANUARY 2005



Legend:

- x Soil sample location
- o Soil sample location
- P Rock sample location
- Diamond drill hole

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Figure 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SAMPLE LOCATIONS

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