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ASSESSMENT REPORT

describing

PROSPECTING AND SOIL GEOCHEMISTRY

on the

HARTLESS JOE PROPERTY

Hart 1 YC26563
2-4 YC30012-YC30014
5-28 YC37057-YC37080
Joe 1-10 YC37091-YC37100
Les 1-10 YC37081-YC37090

NTS 105 D/15
Latitude 60°55'N: Longitude 134°42'W

in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

ATAC RESOURCES LTD.

by

W.A. Wengzynowski, P.Eng.

May 2006



Costs associated with this report have been
approved in the amount of \$ 21,300.00
for assessment credit under Certificate of Work
No. Q1027843

H. Southwick

Mining Recorder
Whitehorse Mining District

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INTRODUCTION

The Hartless Joe property covers an epithermal gold-silver prospect associated with quartz-healed structures located in south central Yukon. It consists of 48 contiguous mineral claims owned 100% by ATAC Resources Ltd.

This report describes work conducted by Archer, Cathro & Associates (1981) Limited between July 17 and July 28, 2005 from a fly camp on the property. This work included two days of helicopter supported reconnaissance scale stream sediment sampling and prospecting by a four person crew. The program was supervised by the author whose Certificate of Qualifications appears in Appendix I.

PROPERTY, LOCATION AND ACCESS

The Hartless Joe property consists of 48 contiguous mineral claims located near Joe Mountain, 27 km northeast of Whitehorse (Figure 1). The claim block is centred at 60°55'N and 134°42'W on NTS map sheet 105/D15. The claims are registered with the Whitehorse Mining Recorder in the name of Archer, Cathro which holds them in trust for ATAC. Claim registration data are shown below while the locations of individual claims are illustrated on Figure 2. Access to the property in 2005 was by Bell 206B Jet Ranger helicopter operated by Capital Helicopters (1995) Inc from its permanent base at the Whitehorse airport. The property is not directly road accessible although an access trail to Mt. Byng is shown on government maps in addition to a winter access road 17 km west of Joe Mountain (Figure 3).

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Hart 1	YC26563	March 1, 2011
2-4	YC30012-YC30014	March 1, 2011
5-28	YC37057-YC37080	March 1, 2010
Joe 1-10	YC37091-YC37100	March 1, 2010
Les 1-10	YC37081-YC37090	March 1, 2010

* Expiry dates include 2005 work which has been filed for assessment credit but not yet accepted.

GEOMORPHOLOGY

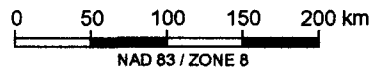
The property lies largely within alpine terrain at elevations ranging from 1585 to 1850 m. Local topography consists of steep unvegetated slopes separated by glacial valleys and marshy moss covered floors. Glaciation was extensive during the McConnell and resulted in the formation of typical broad U-shaped valleys and lateral moraines. Outcrop exposure is limited to higher elevations and occurs mostly in the vicinity of north facing cirques. Two main drainages in the area, Cap Creek and Joe Creek, flow southwesterly into the McClintock River and eventually into the Yukon River. There is abundant water for camp and diamond drilling purposes on the property.

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FIGURE 1

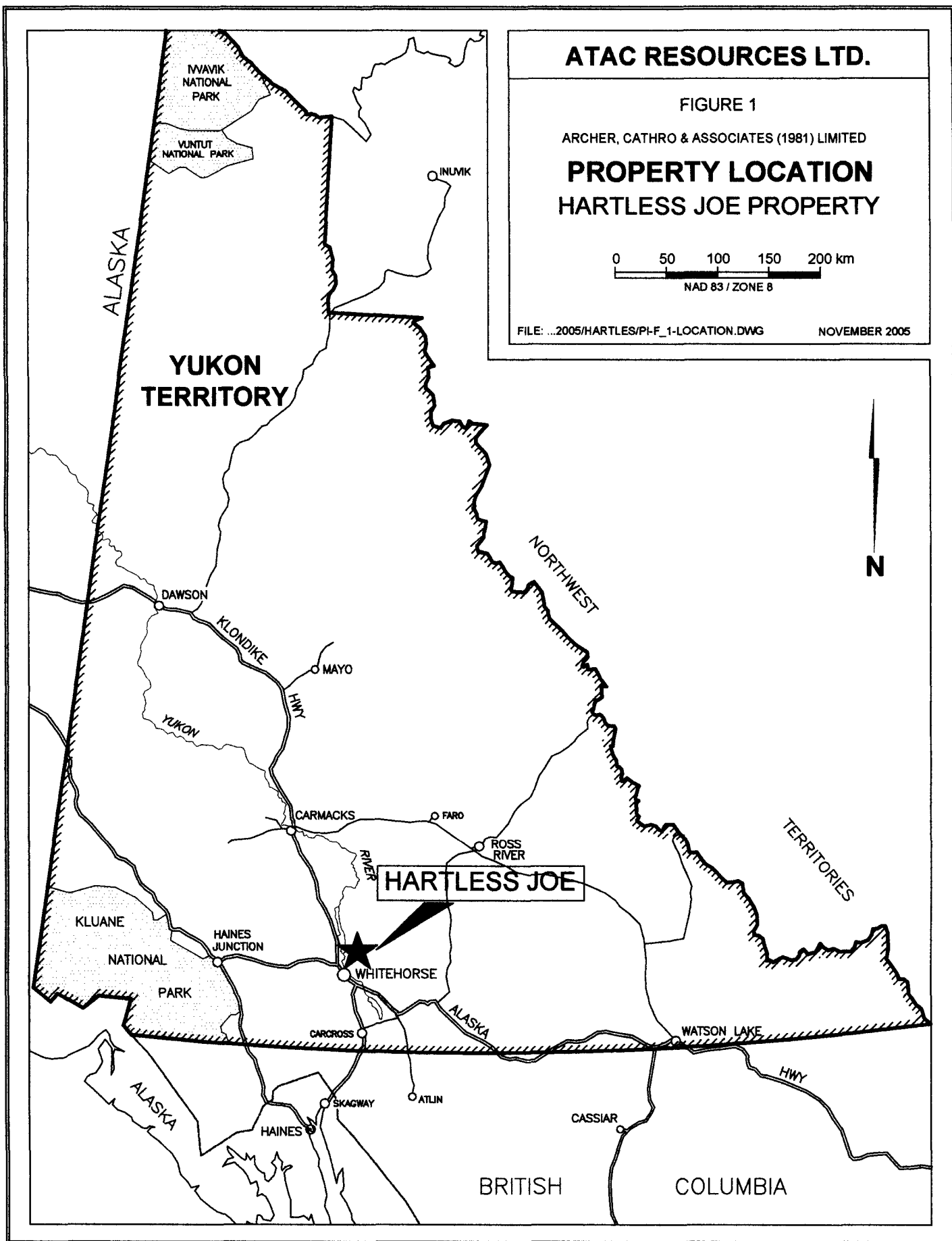
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

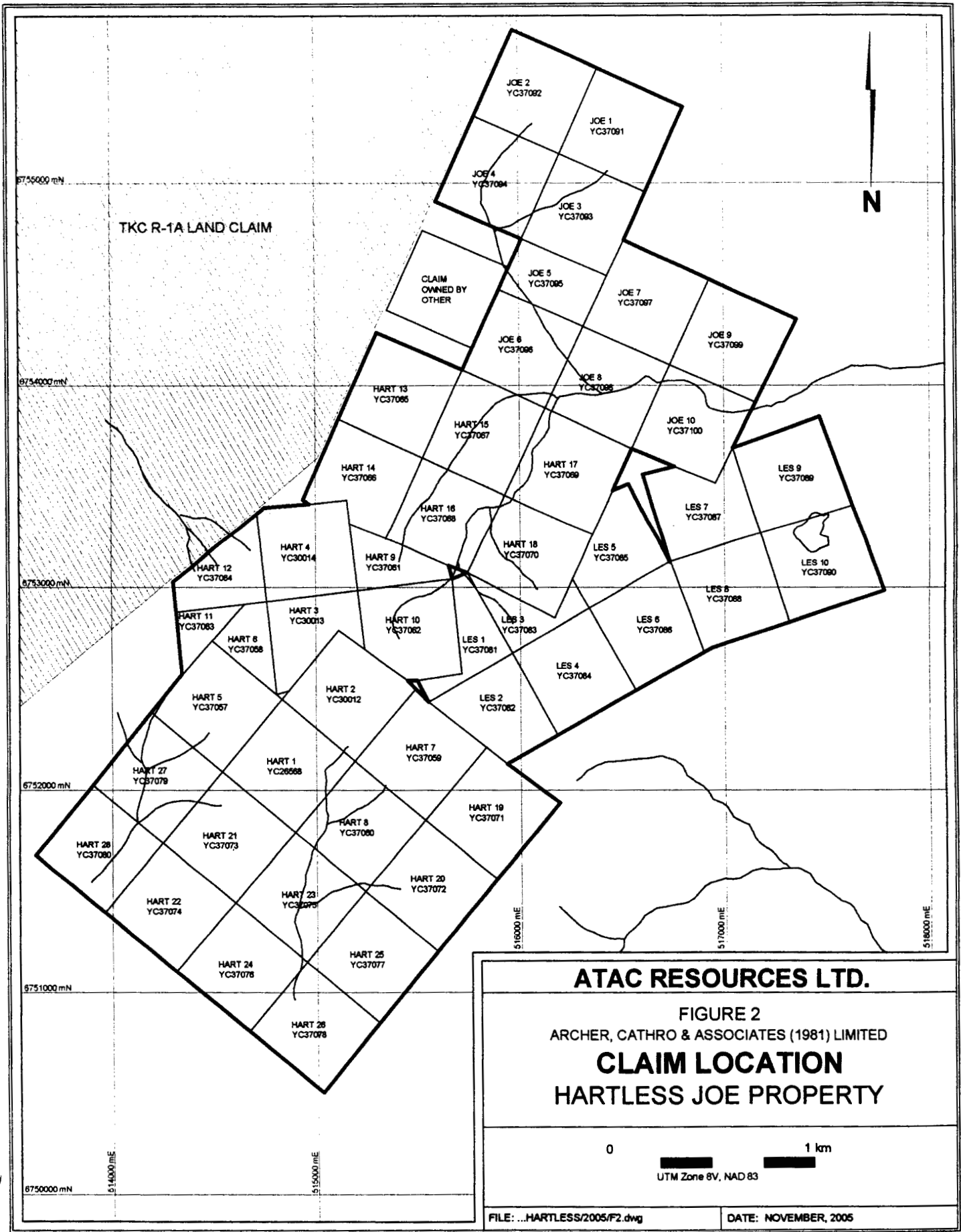
**PROPERTY LOCATION
HARTLESS JOE PROPERTY**



FILE: ...2005/HARTLES/PI-F_1-LOCATION.DWG

NOVEMBER 2005



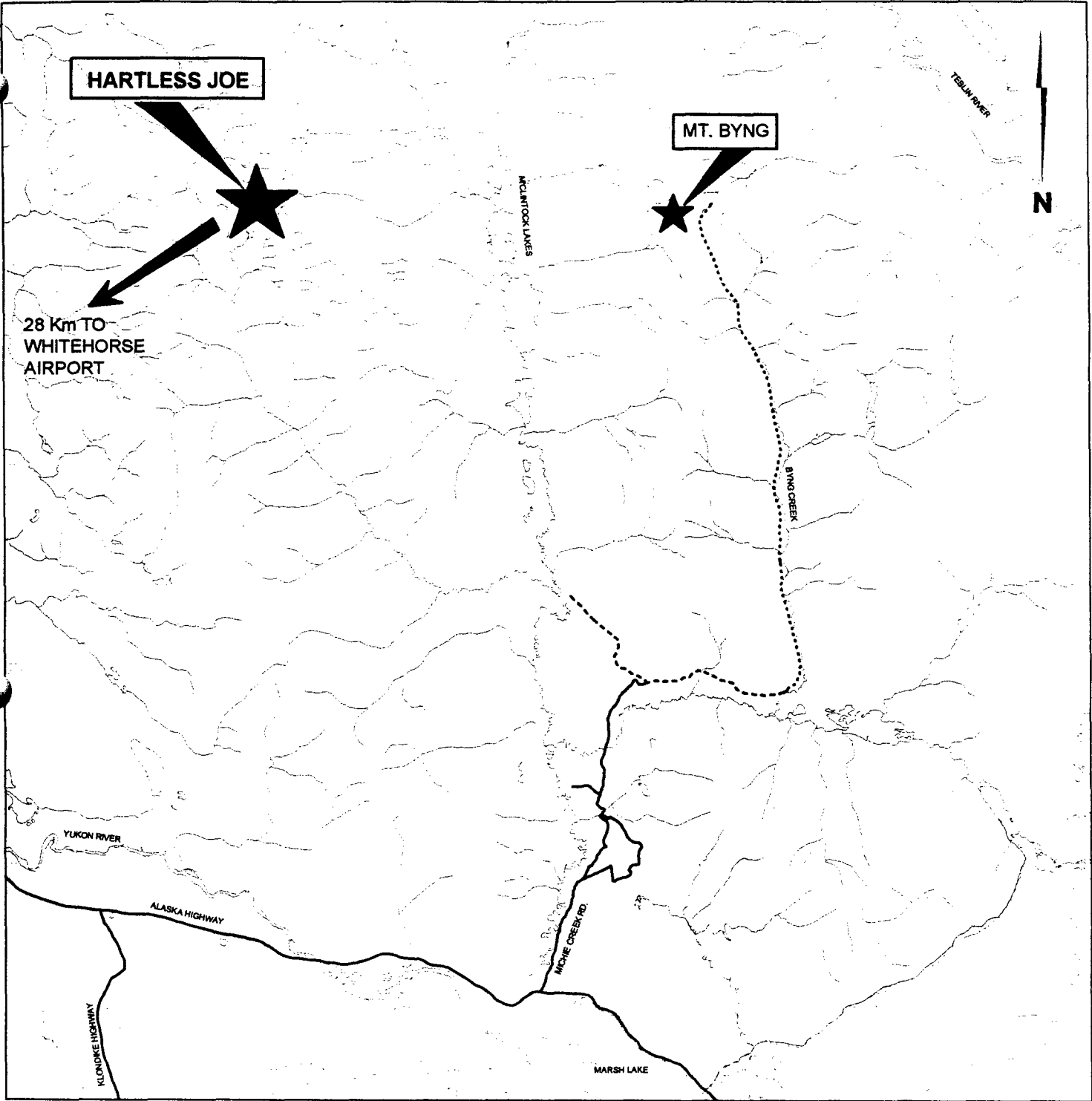


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FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM LOCATION
HARTLESS JOE PROPERTY

0 1 km
 UTM Zone 8V, NAD 83

FILE: ...HARTLESS/2005/F2.dwg DATE: NOVEMBER, 2005



- HIGHWAYS AND GRAVEL ROADS
- - - - WINTER ROAD
- CAT ROAD
- ★ ATAC PROPERTY

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FIGURE 3
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY ACCESS
HARTLESS JOE PROPERTY



UTM ZONE 8 / NAD 83

HISTORY

Previous claims (Ben 1-22) covering parts of the Hartless Joe property were staked by J. Smith between July 1967 and June 1969. Ground magnetic and electromagnetic geophysical surveys and soil sampling were performed over part of the claim block in 1968 by Esensee Explorations. The geophysical surveys suggested the presence of two possible gold bearing fissure veins and several other significant structures. The Ace showing was located during the 1967 work project. It consisted of low sulphide bearing quartz material from the base of a north facing cirque that reportedly returned 150 g/t gold. Silicified material exposed in a northwest trending shear returned 27.4 g/t gold, 78.9 g/t silver, 2.2% lead and 1.9% zinc across 10 cm (Deklerk, 1998).

Vein material discovered by Hart during reconnaissance mapping 2.5 km to the northwest is described as banded and massive white quartz with sparsely disseminated pyrite and arsenopyrite. Two specimens collected yielded up to 1.15 g/t gold, 1.2 g/t silver and 405 ppm arsenic (Deklerk, 2001a). A similar discovery was made during the same mapping campaign roughly 2 km south of the Joe Creek occurrence. It is described as quartz stringer and vein material associated with a 0.5 to 1.0 m wide siliceous felsic dyke within a north trending fault zone. A specimen collected from this occurrence referred to as Grumpy, yielded 10.6 g/t gold (Deklerk, 2001b).

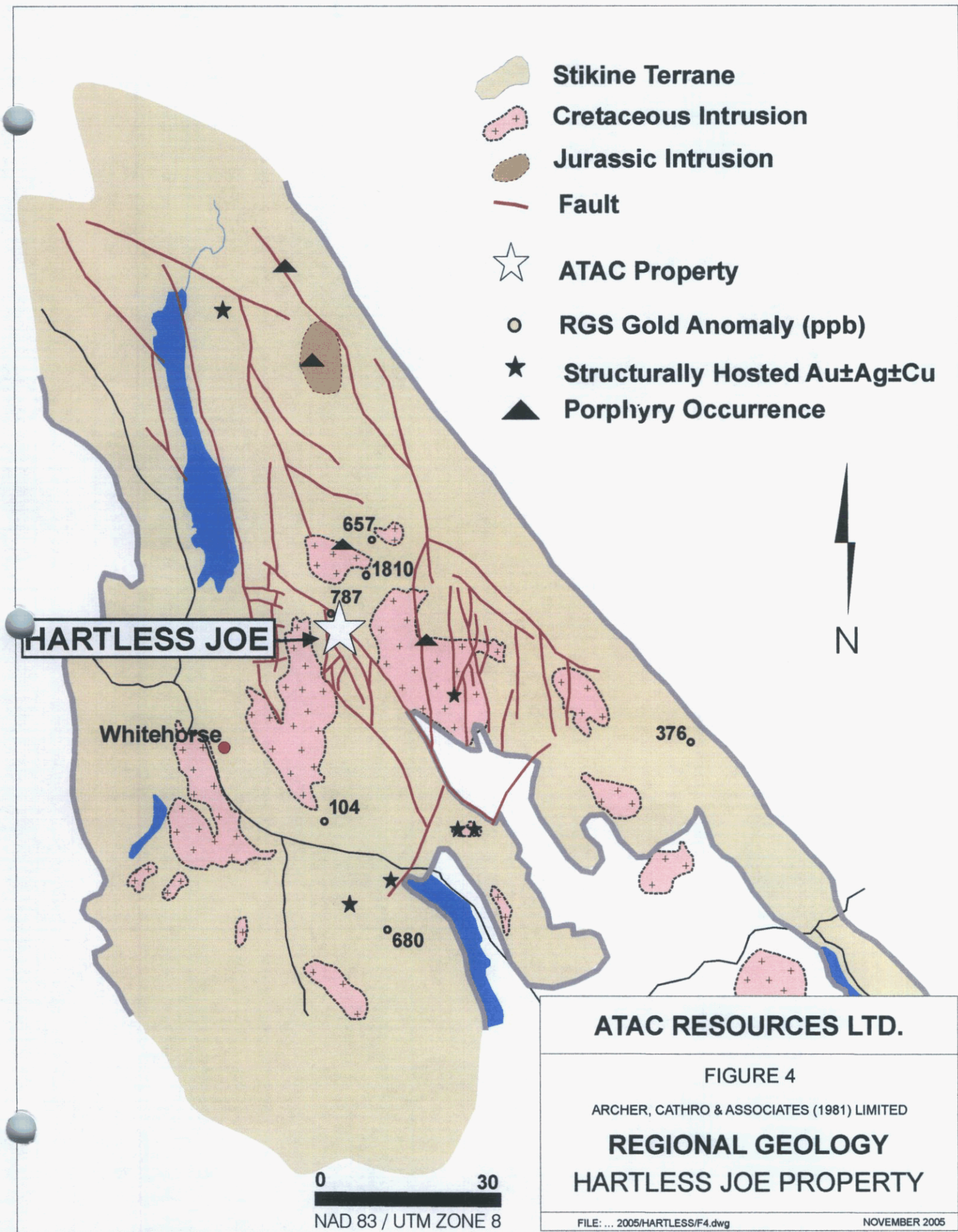
Prospector Rob Hamel staked one claim to cover the Grumpy Showing in February 2004. ATAC purchased the property in August 2004 at which time it conducted one day of helicopter supported work consisting of soil sampling, prospecting and claim staking. The showing was relocated and select specimens of ribbon banded quartz vein talus collected from a float train at the headwall of a south facing cirque returned up to 251 g/t gold and 4540 g/t silver with elevated arsenic and antimony (Wengzynowski, pers com 2005).

REGIONAL GEOLOGY

The Hartless Joe project area covers a heavily glaciated portion of Stikine Terrane that measures roughly 80 by 40 km (Figure 4). It is underlain by the Mid Triassic Joe Mountain Formation, which consists of sedimentary mafic volcanic rocks and feeder dykes (Hart, 1997). These rocks are overlain by the sediment-dominated Whitehorse Trough Supergroup. Several Cretaceous intrusions and one Jurassic intrusion are mapped within the project area, along with a complex system of imbricate faults and fault arrays. Gold-silver lode and copper-gold-silver-molybdenum porphyry occurrences are documented within the project area. Regional geochemical stream sediment surveys have yielded intermittent strongly anomalous values for gold (1810 ppb), copper (120 ppm), mercury (244 ppm), and silver (1.6 ppm) (Heon, 2002).

PROPERTY GEOLOGY

The Hartless Joe property is dominantly underlain by rocks of the Joe Mountain Formation which consists of four main units (mJM₁ to mJM₄) ranging compositionally from basalt to volcanoclastic to sedimentary according to Piercey, 2005. Lesser Aksala Formation sediments are mapped within the southern portion of the property.



The youngest of the formational rocks mapped on the property belong to the Aksala Formation (uTH) and consist of undifferentiated sedimentary rocks with siltstone, shale, sandstone, conglomerate, diamictite and locally limestone. These rocks are of middle Triassic age and are juxtaposed against rocks of the Joe Mountain Formation along a series of imbricate fault arrays as illustrated in Figure 5.

Joe Mountain Formation rocks are also middle Triassic age and consist largely of basaltic and volcanoclastic. The following descriptions are summarized from Piercey 2005. Unit mJM₄ is a mafic to ultramafic volcanic unit characterized by coarse cumulate gabbro with coarse centimetre-scale pyroxene and plagioclase with patches of leucogabbro, anorthosite and pyroxenite exhibiting some degree of alteration and/or metamorphism. The main style of alteration within the mJM₄ is primarily veinlets of calcite, epidote and quartz as well as replacement of pyroxene with chlorite and actinolite.

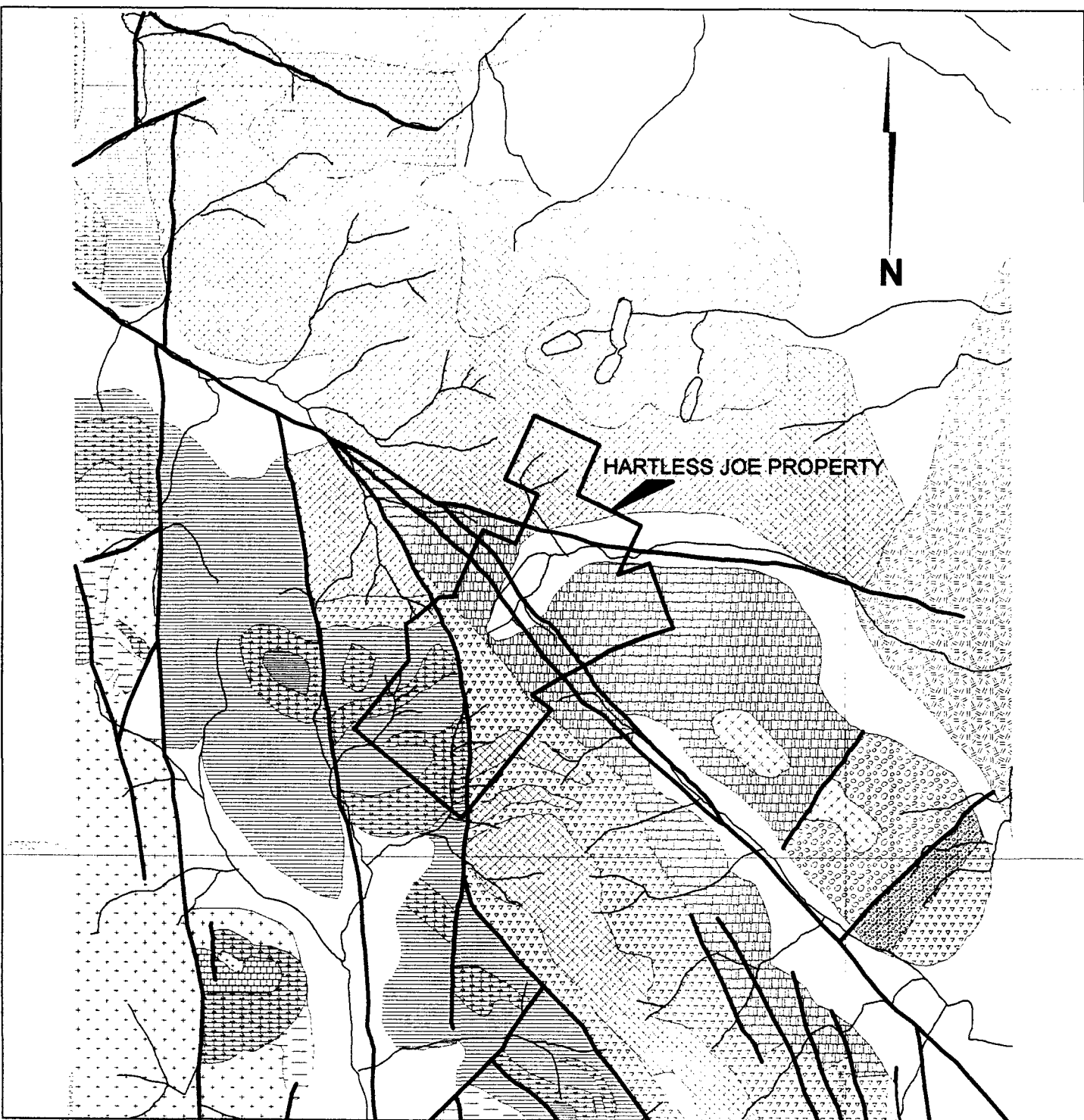
Unit mJM₃, the lowermost volcanic unit, is dominated by well preserved pillow basalt flows. Pillows are greenish to grey-black and typically 50 cm to 1.5 m in size exhibiting tubular shape with radial and concentric cooling fractures. The water-lava interaction is apparent in this unit as a majority of the pillows exhibit tortoise shell fracturing as a consequence of rapid quenching. The very large flows and minimal hyaloclastic and volcanoclastic rock suggest high eruption rates and very little reworking between flow events.

Unit mJM₂ consists of recessive, well bedded, tan brown and grey-black argillite, with more resistant hyaloclastic conglomerate, pebbly sandstone and gritty limestone beds. Parts of this unit are interpreted to have formed from a chaotic volcanic and carbonate rich debris flow. This interpretation is consistent with the array of rocks described that include marble, turbidite, volcanic-derived turbidite, and heterolithic conglomerates.

Unit mJM₁ is smaller and more heavily weathered basalt than mJM₃. The mJM₁ pillows are densely packed, very fine to medium grained, dark grey to black glassy pillows with radial cooling fractures.

The nearest intrusive rocks to the property are Mid Cretaceous granodiorites of the Cap Creek pluton and the M'Clintock intrusion situated west and east of the claim block respectively. They are described as medium grained equigranular biotite-hornblende granodiorites.

The claim block is bisected by a number of northwest trending arcuate, large scale structures that coincide with mildly to moderately recessive topographic linears. The two main mineralized showings occur along the surface trace of two of these structures within the confines of the property. Smaller scale north and northeast trending fault arrays are mapped as horsetails emanating from the main structural trends. Magnitude of displacement and direction of movement are unknown at this time. Some of these faults are associated with the emplacement of intrusive dykes and the documented epithermal style mineralization. Airphoto and land satellite imagery suggest there may be deep-seated ring structures immediately northwest of the claim block from which the northwest trending faults are emanating.



MODIFIED AFTER PIERCEY, 2005

LEGEND

MIDDLE CRETACEOUS

- mKdV: Cap Creek pluton: biotite-hornblende granodiorite
- mKgt: McCintock granodiorite: biotite-hornblende granodiorite

LOWER TO MIDDLE JURASSIC

- JL: sedimentary rocks including siltstone, greywacke, minor conglomerate and limestone
- JR: Richtigshofen formation: finely laminated turbiditic mudstone and sandstone

MIDDLE TRIASSIC

- uTH: Aikawa: sedimentary rocks with siltstone, shale, sandstone, conglomerate and diamicite
- uTH: Hancock member: bioclastic limestone, marble and skarn, some sandy limestone

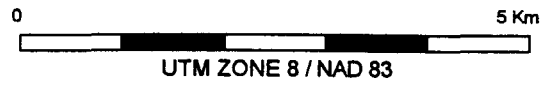
MIDDLE TRIASSIC (LADNIAN)

- mJM4: cumulate gabbro pyroxenite, anorthosite and diorite, locally, some diabase dykes
- mJM3: pillowed basalts, minor diabase, pillows tubular and locally with radial, concentric and tortoise shell fracturing
- mJM2: assemblage of volcanoclastics and sedimentary rocks, mostly turbiditic with significant volcanic and carbonate component
- mJM1 or mJM2
- mTJM: pillowed basalts, some pyrite-quartz-calcite weathering

Fault structures

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



MINERALIZATION

Mineralization previously discovered on the property was relocated and sampled. In addition, four new areas of mineralization within the central and northern parts of the claim block were discovered. The dominant mineralization type discovered to date is structurally related, however, examples of stratigraphically controlled gold-silver bearing material and silica-carbonate healed breccias were also documented.

Forty eight rock samples were collected from the property during the 2005 exploration program and submitted to ALS Chemex in North Vancouver, B.C. where they were dried and fine crushed to -2 mm. A further 250 g split was then pulverized to 75 microns and a portion of this material was digested in aqua regia acid and analysed for 34 elements by the Induced Coupled Plasma (ICP) with Atomic Emission Spectroscopy (AES) technique. Certificates of Analysis appear in Appendix II while rock sample descriptions are contained in Appendix III.

Vein material is characterized by a number of features. Quartz is the dominant component and is generally white to pale orange tan in colour, opaque and crystalline. Carbonate comprises only a minor component. Weak comb texture is observed in some specimens and sulphide minerals occur as weak disseminations to thin millimetre-scale ribbon bands. The total estimated sulphide content in such specimens ranges from less than 1% to a maximum of 10% and averages about 3%.

Obvious identifiable sulphides consist of pyrite, galena, arsenopyrite, chalcopyrite and sphalerite. Examination of polished sections under binocular microscope exhibit unidentifiable grey and black minerals suspected to be tellurides and sulphosalts rimming known sulphides. Alteration assemblages developed along vein margins consist primarily of sericite and chlorite. Fluid inclusion work done on several samples returned mixed results however, textural observations noted growth zoning which is typically developed in epithermal systems.

Vein mineralization is documented in five different locations on the property referred to as Grumpy, Ace, Joe 4, Les 2, and Hart 13. During the 2005 program none of the mineralized material was sampled in situ but float trains were traced to what is believed to be very close to source. The locations are outlined on Figure 6. Table I displays significant assay results from these areas.

TABLE I – VEIN STYLE MINERALIZATION

Area	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
Grumpy	B395829	0.87	88	522	23	0.03	0.04	0.007
	B395831	55.3	5010	143	1590	0.09	0.55	0.06
	B395832	18.5	2310	213	364	0.11	0.73	0.06
Ace	P396836	1.5	41.1	1	9	0.25	1.9	0.12
	P396837	4.2	55	69	10	0.01	0.25	0.18
	P396838	0.9	30.4	30	7	0.02	0.36	0.1
	P396840	0.83	19.8	30	2	0.03	0.24	0.26
	P396841	149	53.8	2	3	0.05	0.6	0.04
	B395837	190.5	5780	167	1350	0.13	5.58	0.06
	B395910	13.35	10.8	153	153	0.003	0.09	0.24
Joe 4	B395828	0.018	4.8	8	1	1.91	0.001	0.02
Les 2	B395846	0.02	31.4	10	1	0.001	0.09	0.004
	B395847	0.02	37.9	26	1	0.1	0.08	0.01
	B395902	0.02	117	1	1	0.001	0.25	0.001
Hart 13	B395844	0.08	46.5	38	1	0.02	0.22	0.03

Two types of stratigraphically controlled mineralization are recognized on the property. The first occurs as quartz floods roughly parallel to bedding and foliation of the volcanic (andesitic) rock units and metasediments. Mineralization consists predominantly of fine grained pyrite and variable amounts of sphalerite, galena and chalcopyrite occurring both with the quartz and within the immediate selvage.

The second type of mineralization is jasper developed within units uTH and mJM₃. This mineralization has been interpreted as a laterally extensive hydrothermal precipitate that occurs as drapings around pillow lavas (Piercey, 2005). Samples of this material are typically dark to medium red, texturally amorphous but contain clusters of fine disseminated magnetite and stringers of clear glassy secondary silica. At one locale silica has replaced what appears to be fan shaped coral. Table II lists results from stratigraphically controlled mineralization sampled in three areas on the property.

TABLE II – STRATIGRAPHIC MINERALIZATION

Area	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
Grumpy	B395830	0.8	211	453	80	0.02	0.001	0.008
	B395833	5.32	50	5310	17	0.01	0.02	0.01
Ace	P396839	9.15	317	33	6	0.05	0.38	0.76
Les 2	B395834	0.99	9.4	25	4	0.004	0.003	0.001
	B395903	0.07	76.1	11	1	0.02	0.66	0.004

Breccias observed during the 2005 program are pale to medium green in colour and consist mostly of crackled andesite volcanic healed with varying amounts of silica and carbonate (calcite) and commonly mineralized with blebby to disseminated pyrite, pyrrhotite, and

chalcopyrite. Only two samples of this type of mineralization were collected and the results are illustrated on Table III.

Table III – BRECCIA MINERALIZATION

Area	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
J4	B395839	0.58	22.4	5	8	0.007	0.03	0.004
	B395841	0.17	16.4	10	5	1.81	0.009	0.008

SOIL GEOCHEMISTRY

Soil sampling was carried out within an irregularly shaped block between the Grumpy and Ace Showings measuring roughly 2300 by 800 m. The survey used a combination of contour and lesser grid sampling which resulted in relatively uniform coverage along lines spaced 100 m apart and samples collected at 50 m intervals along the lines. In addition, several isolated contour lines were sampled along ridge lines and recessive linears believed to coincide with structures peripheral to the survey block. Roughly 600 samples were collected during the program.

Grid and contour soil samples were located by means of compass and Hip-Chain surveys with frequent checks using handheld GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected by mattock and placed into individually pre-numbered Kraft paper bags.

Most of the soil samples were collected from slopes ranging from 10 to 40°. They are basically of two types: poorly developed B or C horizon soils in grassy valley bottoms and areas of low relief that are mantled by glacial till; and, C horizon talus fines from steeper slopes with no soil development or vegetation cover. Soil type was not differentiated or recorded for any of the surveys.

All soil samples were forwarded to ALS Chemex in North Vancouver, B.C. where they were dried and dry sieved to -180 micron. A portion of the sample was then digested in aqua regia acid and analysed for 34 elements by the ICP with AES technique. An additional 30 g charge was further analysed for gold by Fire Assay and AES finish.

Soil sample locations are shown on Figure 7 and results for gold and pathfinder elements silver, copper, arsenic, antimony, lead and zinc, appear on Figures 8 to 14.

Gold response is spotty over much of the survey area but the most cohesive values occur in the vicinity of the Grumpy Showing and specifically along the suspected mineralized trend to the northwest and southeast. Gold-in-soil values directly over the showing are surprisingly low but exceed 100 ppb adjacent to the showing and up to 1.39 g/t 2 km to the north.

Silver, lead and copper exhibit the strongest response of the indicator elements across the survey block and form clusters up to 300 m across over the documented showings. Arsenic and

antimony are weakly to moderately elevated in the vicinity of the Grumpy and Les 2 areas while zinc is subdued across most of the survey block.

DISCUSSION AND CONCLUSIONS

The Hartless Joe property hosts a number of impressive gold-silver occurrences yet has received only cursory levels of exploration. These occurrences are both structurally and stratigraphically controlled and exhibit many characteristics found in deposits hosted by the same belt of rocks in northern B.C. These occurrences include the Eskay Creek gold-silver mine, Premier Gold Mine, Equity silver mine, Toodoggone camp, Sulphurets, Red Mountain and Galore Creek. The deposits cover a variety of genetic classifications, ranging from epithermal to mesothermal veins, replacement bodies, volcanogenic massive sulphide lenses and porphyry zones. The richest of the deposits is Eskay Creek, which reportedly contains four million ounces of gold and 153 million ounces of silver.

Regional geochemical stream sediment survey results in the vicinity of the Hartless Joe project area coupled with the presence of abundant intrusive activity and well defined structural corridors suggest the possibility of multiple zones of "bonanza type" gold-silver mineralization. An aggressive exploration program with a regional component to identify new targets plus additional property work designed to advance the Hartless Joe property to drill stage is warranted.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



W.A. Wengzynowski, P.Eng.

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Wengzynowski, W.A.

2005 Personal communication, Hartless Joe Property

APPENDIX I
AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, William A. Wengzynowski, geological engineer, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Garibaldi Highlands, British Columbia, do hereby certify that:

1. I am President of Archer, Cathro & Associates (1981) Limited.
2. I graduated from the University of British Columbia in 1993 with a B.A.Sc in Geological Engineering, Option I, mineral and fuel exploration.
3. I registered as a Professional Engineer in the Province of British Columbia on December 12, 1998 (Licence Number 24119).
4. From 1983 to present, I have been actively engaged in mineral exploration in the Yukon Territory, Northwest Territories, northern British Columbia and Mexico.
5. I have personally participated in and supervised the fieldwork reported herein.



William A. Wengzynowski, P.Eng.

**APPENDIX II
CERTIFICATES OF ANALYSIS**



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

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North Vancouver BC V7J 2C1

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



To: ATAC RESOURCES LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981)

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Page: 1

Finalized Date: 15-AUG-2005

Account: RCM

CERTIFICATE VA05063481

Project: Hartles Joe

P.O. No.:

This report is for 103 Soil samples submitted to our lab in Vancouver, BC, Canada on 2-AUG-2005.

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
SCR-41	Screen to -180um and save both
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	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:



ALS Chemex

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Project: Hartles Joe



Page: 2 - A

Total Pages: 4 (A - C)

Finalized Date: 15-AUG-2005

Account: RCM

CERTIFICATE OF ANALYSIS VA05063481

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
CC11650		0.24	0.006		<0.2	2.30	12	<10	140	<0.5	3	0.44	<0.5	24	50	75
CC11651		0.20	<0.005		<0.2	2.32	26	<10	50	<0.5	2	0.28	0.5	28	51	99
CC11652		0.28	0.006		<0.2	3.00	18	<10	80	<0.5	3	0.47	<0.5	39	50	121
CC11653		0.22	<0.005		<0.2	2.92	10	<10	60	<0.5	3	0.72	<0.5	45	74	105
CC11654		0.18	0.011		0.6	3.34	12	<10	70	<0.5	3	1.02	0.6	47	84	180
CC11655		0.18	0.013		<0.2	2.29	7	<10	70	<0.5	2	0.89	<0.5	26	45	122
CC11656		0.22	0.048		0.2	2.74	8	<10	50	<0.5	3	0.63	<0.5	40	69	148
CC11657		0.26	<0.005		0.2	2.55	17	<10	80	<0.5	<2	0.55	<0.5	35	60	137
CC11658		0.24	0.041		0.6	2.56	18	<10	90	<0.5	2	0.47	0.6	35	67	125
CC11659		0.26	<0.005		0.2	1.74	6	<10	80	<0.5	<2	0.63	<0.5	14	46	40
CC11660		0.20	0.055		0.6	1.95	28	<10	110	0.5	2	0.26	0.6	35	66	78
CC11661		0.20	0.025		0.5	1.92	10	<10	90	<0.5	3	0.30	0.5	27	49	68
CC11662		0.18	0.068		1.5	2.33	20	<10	70	0.5	3	0.42	0.6	23	40	77
CC11663		0.16	0.016		0.3	2.29	11	<10	80	<0.5	3	0.74	<0.5	22	55	67
CC11664		0.20	<0.005		<0.2	1.04	5	<10	50	<0.5	2	0.16	<0.5	6	21	21
CC11665		0.24	0.005		0.3	1.84	8	<10	110	<0.5	2	0.35	<0.5	12	48	33
CC11666		0.20	0.081		1.6	2.31	8	<10	60	<0.5	<2	0.37	0.6	30	45	78
CC11667		0.22	0.088		0.3	2.28	14	<10	50	<0.5	3	0.37	<0.5	24	36	70
CC11668		0.32	0.009		<0.2	1.63	10	<10	70	<0.5	2	0.34	<0.5	13	40	43
CC11669		0.24	0.014		<0.2	1.68	6	<10	70	<0.5	2	0.22	<0.5	10	44	23
CC11670		0.20	<0.005		<0.2	1.93	6	<10	190	0.8	4	0.46	<0.5	34	112	147
CC11671		0.26	0.102		0.2	3.18	11	<10	50	<0.5	4	0.46	0.6	48	103	136
CC11680		0.18	<0.005		<0.2	1.64	9	<10	80	<0.5	<2	0.29	<0.5	10	54	22
CC11681		0.20	<0.005		<0.2	1.87	8	<10	100	<0.5	<2	0.21	<0.5	12	46	21
CC11682		0.14	<0.005		<0.2	2.15	4	<10	70	<0.5	3	0.16	<0.5	8	48	24
CC11683		0.14	<0.005		0.2	0.50	<2	<10	20	<0.5	<2	0.04	<0.5	2	10	6
CC11684		0.14	<0.005		0.2	1.46	4	<10	50	<0.5	<2	0.10	<0.5	5	36	17
CC11685		0.14	<0.005		<0.2	2.25	10	<10	80	<0.5	<2	0.20	<0.5	14	74	37
CC11686		0.18	0.005		<0.2	2.18	3	<10	60	<0.5	<2	0.13	<0.5	9	49	25
CC11687		0.18	<0.005		0.3	2.23	4	<10	90	<0.5	<2	0.60	<0.5	9	54	25
CC11688		0.20	<0.005		0.2	2.01	5	<10	90	<0.5	<2	0.24	<0.5	10	60	25
CC11689		0.14	<0.005		<0.2	1.97	4	<10	60	<0.5	<2	0.17	<0.5	6	43	15
CC11690		0.16	<0.005		<0.2	1.88	4	<10	80	<0.5	<2	0.26	<0.5	7	43	19
CC11691		0.16	<0.005		0.2	1.72	4	<10	110	<0.5	<2	0.29	<0.5	9	47	24
CC11692		0.18	<0.005		0.2	2.26	6	<10	70	<0.5	<2	0.15	<0.5	9	49	24
CC11693		0.12	<0.005		0.3	1.89	5	<10	80	<0.5	<2	0.15	<0.5	6	41	29
CC11694		0.14	<0.005		<0.2	2.20	5	<10	100	<0.5	<2	0.27	<0.5	15	56	43
CC11695		0.14	<0.005		0.2	1.39	3	<10	90	<0.5	<2	0.17	<0.5	8	42	22
CC12551		0.26	<0.005		0.4	2.06	7	<10	120	<0.5	<2	0.27	<0.5	16	59	46
CC12552		0.22	<0.005		0.2	1.61	7	<10	60	<0.5	<2	0.21	<0.5	11	49	27



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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	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
CC11650		3.66	10	<1	0.07	10	1.12	714	<1	0.02	41	1160	10	0.05	<2	3
CC11651		5.12	10	<1	0.04	<10	1.10	501	2	0.02	44	480	6	0.03	<2	4
CC11652		5.04	10	<1	0.04	10	1.58	961	1	0.02	61	940	8	0.06	<2	4
CC11653		5.63	10	<1	0.03	<10	1.75	1160	<1	0.03	67	1200	5	0.08	<2	6
CC11654		6.27	10	<1	0.07	10	2.22	1575	<1	0.03	62	1260	9	0.09	<2	11
CC11655		3.83	10	<1	0.04	10	1.30	687	<1	0.02	39	1600	7	0.10	<2	2
CC11656		5.46	10	<1	0.04	<10	1.90	1030	<1	0.02	57	800	6	0.04	<2	10
CC11657		5.53	10	<1	0.05	10	1.51	1100	<1	0.02	46	900	7	0.03	<2	13
CC11658		5.19	10	<1	0.06	10	1.74	1100	<1	0.02	49	830	16	0.05	<2	10
CC11659		2.82	10	<1	0.05	10	0.85	487	<1	0.02	33	600	5	0.04	<2	4
CC11660		5.88	10	<1	0.04	10	1.28	1290	<1	0.01	58	630	23	0.02	<2	15
CC11661		5.34	10	<1	0.05	10	1.04	1050	<1	0.02	40	740	16	0.02	<2	13
CC11662		4.69	10	<1	0.06	10	1.26	787	<1	0.02	31	1080	43	0.07	<2	7
CC11663		3.82	10	<1	0.05	10	1.42	652	<1	0.02	32	1320	18	0.10	<2	5
CC11664		1.99	<10	<1	0.03	<10	0.37	230	<1	0.02	13	600	4	0.04	<2	1
CC11665		2.77	10	<1	0.07	10	0.87	458	<1	0.02	34	560	7	0.02	<2	3
CC11666		4.71	10	<1	0.04	10	1.67	932	<1	0.02	37	620	33	0.01	<2	10
CC11667		4.57	10	<1	0.04	10	1.36	920	<1	0.02	27	870	34	0.05	<2	7
CC11668		2.92	10	<1	0.04	10	0.79	451	<1	0.02	28	460	7	0.01	<2	5
CC11669		2.74	10	<1	0.05	10	0.70	479	<1	0.01	23	580	6	0.03	<2	2
CC11670		7.81	<10	<1	0.06	10	0.77	1900	<1	0.02	101	680	8	0.01	<2	15
CC11671		6.19	10	<1	0.04	<10	2.46	1265	<1	0.02	83	700	18	0.03	<2	14
CC11680		2.91	10	<1	0.05	10	0.80	430	<1	0.02	30	450	5	0.03	<2	3
CC11681		2.44	<10	<1	0.05	10	0.59	881	<1	0.01	25	720	6	0.05	<2	1
CC11682		2.88	10	<1	0.05	10	0.68	356	<1	0.02	24	600	8	0.05	<2	2
CC11683		0.81	<10	<1	0.02	<10	0.17	80	<1	0.02	6	380	2	0.02	<2	<1
CC11684		2.05	<10	<1	0.03	10	0.35	360	1	0.01	14	670	5	0.06	<2	1
CC11685		3.61	10	<1	0.05	10	1.16	473	1	0.01	39	560	5	0.07	<2	3
CC11686		2.77	<10	<1	0.03	10	0.62	463	<1	0.01	23	730	5	0.08	<2	1
CC11687		2.70	10	<1	0.04	10	0.79	402	1	0.01	27	690	5	0.06	<2	1
CC11688		2.91	10	<1	0.05	10	0.97	444	1	0.01	33	510	6	0.04	<2	3
CC11689		2.20	10	<1	0.04	10	0.59	273	1	0.01	18	560	5	0.04	<2	1
CC11690		2.60	10	<1	0.05	10	0.58	465	1	0.01	19	700	9	0.06	<2	1
CC11691		2.38	<10	<1	0.06	10	0.78	396	1	0.01	28	720	7	0.06	<2	2
CC11692		2.55	10	<1	0.06	10	0.73	374	1	0.01	25	560	7	0.04	<2	2
CC11693		2.72	10	<1	0.05	10	0.49	458	1	0.01	19	760	7	0.09	<2	1
CC11694		2.98	10	<1	0.05	10	1.04	609	1	0.02	42	670	5	0.04	<2	4
CC11695		2.30	10	<1	0.05	10	0.63	359	1	0.02	28	610	5	0.06	<2	1
CC12551		3.47	<10	<1	0.06	10	1.00	704	<1	0.02	38	570	9	0.03	<2	5
CC12552		2.80	<10	<1	0.04	10	0.77	396	<1	0.01	31	580	6	0.04	<2	2



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr ppm 1	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
CC11650		28	0.09	<10	<10	81	<10	79
CC11651		20	0.15	<10	<10	98	<10	104
CC11652		23	0.12	<10	<10	101	<10	79
CC11653		24	0.12	<10	<10	118	<10	68
CC11654		28	0.10	<10	<10	148	<10	93
CC11655		28	0.06	<10	<10	73	<10	59
CC11656		21	0.12	<10	<10	116	<10	74
CC11657		25	0.08	<10	<10	120	<10	71
CC11658		22	0.10	<10	<10	114	<10	80
CC11659		20	0.08	<10	<10	65	<10	46
CC11660		13	0.05	<10	<10	128	<10	84
CC11661		17	0.08	<10	<10	132	<10	81
CC11662		19	0.07	<10	<10	109	<10	102
CC11663		22	0.07	<10	<10	106	<10	63
CC11664		11	0.08	<10	<10	52	<10	31
CC11665		15	0.08	<10	<10	65	<10	50
CC11666		14	0.13	<10	<10	116	<10	84
CC11667		16	0.11	<10	<10	115	<10	81
CC11668		15	0.08	<10	<10	68	<10	45
CC11669		14	0.09	<10	<10	66	<10	44
CC11670		22	0.04	<10	<10	142	<10	81
CC11671		16	0.13	<10	<10	134	<10	90
CC11680		14	0.12	<10	<10	73	<10	41
CC11681		14	0.07	<10	<10	63	<10	37
CC11682		12	0.09	<10	<10	65	<10	63
CC11683		5	0.03	<10	<10	21	<10	15
CC11684		10	0.06	<10	<10	50	<10	35
CC11685		14	0.13	<10	<10	83	<10	57
CC11686		10	0.06	<10	<10	67	<10	42
CC11687		23	0.07	<10	<10	69	<10	49
CC11688		14	0.09	<10	<10	68	<10	48
CC11689		12	0.06	<10	<10	51	<10	39
CC11690		15	0.05	<10	<10	59	<10	54
CC11691		16	0.06	<10	<10	57	<10	52
CC11692		11	0.07	<10	<10	61	<10	52
CC11693		14	0.06	<10	<10	68	<10	43
CC11694		16	0.09	<10	<10	73	<10	65
CC11695		15	0.06	<10	<10	56	<10	43
CC12551		16	0.09	<10	<10	77	<10	59
CC12552		12	0.09	<10	<10	65	<10	70



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Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.005	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
CC12553		0.20	0.011		0.4	1.87	6	<10	130	0.5	<2	0.56	<0.5	18	76	49
CC12554		0.20	0.008		0.5	1.92	11	<10	70	<0.5	2	0.27	<0.5	16	51	68
CC12555		0.20	0.011		0.6	2.54	14	<10	100	0.5	2	0.48	<0.5	23	59	70
CC12556		0.24	0.017		5.5	2.17	17	<10	120	<0.5	20	0.46	0.8	45	91	125
CC12557		0.20	<0.005		0.3	2.09	8	<10	120	<0.5	<2	0.31	<0.5	13	59	34
CC12558		0.24	0.006		0.3	2.10	8	<10	130	<0.5	<2	0.28	<0.5	12	60	43
CC12559		0.22	<0.005		<0.2	1.72	11	<10	120	<0.5	<2	0.27	<0.5	10	54	27
CC12560		0.20	0.006		0.2	1.89	9	<10	100	<0.5	2	0.24	<0.5	13	39	38
CC12561		0.18	0.007		0.2	1.67	4	<10	100	<0.5	2	0.31	<0.5	12	28	60
CC12562		0.22	0.007		0.3	1.48	5	<10	70	<0.5	<2	0.21	<0.5	10	40	30
CC12563		0.18	<0.005		0.2	1.18	4	<10	90	<0.5	<2	0.20	<0.5	6	33	15
CC12564		0.22	0.006		0.3	1.73	6	<10	240	0.6	<2	0.16	<0.5	24	20	78
CC12565		0.22	<0.005		0.2	1.50	4	<10	120	<0.5	<2	0.21	<0.5	11	40	23
CC12566		0.26	0.014		0.5	1.55	8	<10	140	<0.5	3	0.51	<0.5	23	38	43
CC12567		0.24	<0.005		<0.2	2.02	7	<10	70	<0.5	<2	0.25	<0.5	19	69	52
CC12568		0.22	<0.005		<0.2	2.77	8	<10	90	<0.5	<2	0.32	<0.5	20	97	60
CC12569		0.18	0.006		0.3	3.40	18	<10	80	0.5	<2	0.39	<0.5	31	141	98
CC12570		0.20	<0.005		<0.2	2.42	9	<10	120	<0.5	<2	0.40	<0.5	16	86	41
CC12571		0.24	0.010		0.3	2.93	14	<10	120	<0.5	<2	0.37	<0.5	25	90	92
CC12572		0.22	0.010		0.3	2.45	12	<10	100	<0.5	<2	0.35	<0.5	23	75	95
CC12573		0.22	<0.005		<0.2	2.95	8	<10	100	<0.5	<2	0.36	<0.5	28	94	142
CC12574		0.26	0.006		0.2	1.93	7	<10	60	<0.5	<2	0.30	<0.5	20	66	70
CC12575		0.26	<0.005		<0.2	2.37	7	<10	70	<0.5	<2	0.21	<0.5	16	62	34
CC12576		0.20	<0.005	0.012	0.2	1.95	7	<10	100	<0.5	<2	0.28	<0.5	22	68	76
CC12577		0.22	<0.005		<0.2	1.88	5	<10	50	<0.5	<2	0.21	<0.5	12	45	70
CC12578		0.28	<0.005		<0.2	1.90	5	<10	70	<0.5	<2	0.24	<0.5	16	46	80
CC12579		0.20	<0.005		<0.2	1.11	6	<10	60	<0.5	<2	0.26	<0.5	11	35	55
CC12580		0.30	<0.005		0.2	1.82	7	<10	70	<0.5	<2	0.33	<0.5	27	47	189
CC12581		0.20	0.007		0.2	1.95	7	<10	50	<0.5	<2	0.18	<0.5	12	42	256
CC12582		0.16	<0.005		<0.2	2.07	4	<10	120	<0.5	<2	0.51	<0.5	16	45	73
CC12583		0.22	0.026		<0.2	1.91	6	<10	70	<0.5	<2	0.27	<0.5	16	44	60
CC12584		0.24	0.005		0.2	2.26	12	<10	90	<0.5	<2	0.50	<0.5	28	59	340
CC12585		0.16	0.016		0.4	2.66	10	<10	60	<0.5	2	0.41	<0.5	55	56	775
CC12620		0.20	0.021		0.8	1.24	43	<10	140	0.6	2	0.60	0.8	20	22	134
CC12621		0.14	0.027		1.7	1.44	33	<10	140	0.9	<2	1.27	1.5	22	19	176
CC12622		0.12	0.013		1.0	1.07	21	<10	90	0.5	<2	2.42	1.1	20	15	168
CC12623		0.20	0.010		0.9	1.46	31	<10	180	0.7	2	0.98	<0.5	16	23	107
CC12624		0.22	0.014		1.4	1.50	19	<10	110	0.6	<2	0.88	0.5	15	19	130
CC12625		0.24	0.010		0.5	1.73	18	<10	110	0.5	<2	0.89	0.7	15	52	78
CC12626		0.20	0.016		1.6	1.39	47	<10	90	0.7	<2	1.41	<0.5	15	28	87



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
CC12553		4.98	<10	<1	0.04	10	0.84	1030	3	0.01	36	1600	31	0.04	<2	12
CC12554		3.57	<10	<1	0.04	10	1.08	841	1	0.02	33	570	33	0.04	<2	6
CC12555		5.38	10	<1	0.05	10	1.46	1710	1	0.02	38	1100	54	0.06	<2	10
CC12556		6.31	10	<1	0.08	10	1.67	1700	32	0.02	57	680	152	0.08	<2	20
CC12557		3.04	10	<1	0.06	10	1.00	622	1	0.02	34	880	16	0.06	<2	3
CC12558		2.94	10	<1	0.09	10	0.94	533	1	0.02	40	520	17	0.04	2	3
CC12559		2.97	10	<1	0.06	10	0.78	420	1	0.01	31	650	8	0.05	<2	3
CC12560		3.29	<10	<1	0.05	10	0.82	621	1	0.01	27	550	30	0.03	<2	4
CC12561		3.82	10	<1	0.05	10	0.57	856	1	0.01	15	780	18	0.06	<2	3
CC12562		3.12	10	<1	0.04	10	0.66	519	1	0.01	21	610	13	0.04	<2	3
CC12563		2.50	<10	<1	0.04	10	0.38	371	1	0.01	15	700	9	0.06	<2	1
CC12564		8.12	10	<1	0.07	10	0.49	2240	1	0.01	11	2120	46	0.14	<2	15
CC12565		3.91	<10	<1	0.05	10	0.69	914	1	0.01	23	680	12	0.03	<2	7
CC12566		7.10	<10	<1	0.05	10	0.85	2370	4	0.01	22	1690	18	0.04	<2	14
CC12567		3.28	10	<1	0.03	10	1.14	685	<1	0.02	44	500	5	0.04	<2	4
CC12568		4.21	10	1	0.04	10	1.58	722	1	0.02	51	830	6	0.07	<2	5
CC12569		7.22	10	<1	0.03	10	2.29	1270	<1	0.02	66	980	10	0.05	<2	25
CC12570		3.73	10	<1	0.06	10	1.42	666	1	0.02	57	800	7	0.06	<2	4
CC12571		4.59	10	<1	0.07	10	1.74	963	<1	0.02	66	760	10	0.03	<2	8
CC12572		4.20	10	<1	0.06	10	1.50	858	<1	0.02	55	740	9	0.02	<2	8
CC12573		4.77	10	<1	0.06	10	1.84	842	1	0.02	64	680	7	0.04	<2	7
CC12574		3.43	10	<1	0.04	10	1.32	637	<1	0.02	44	530	6	0.01	<2	6
CC12575		3.34	10	1	0.06	10	1.04	582	1	0.01	36	560	9	0.03	<2	5
CC12576		4.05	10	<1	0.06	10	1.20	631	1	0.02	59	610	6	0.04	<2	4
CC12577		3.14	<10	<1	0.04	10	0.76	336	1	0.01	26	540	5	0.05	<2	2
CC12578		3.16	10	<1	0.05	10	0.90	550	1	0.02	27	750	7	0.03	<2	3
CC12579		2.11	<10	<1	0.05	10	0.62	322	<1	0.02	27	510	3	0.01	<2	3
CC12580		3.10	<10	<1	0.07	10	0.93	561	<1	0.02	40	590	5	0.01	<2	6
CC12581		3.92	<10	<1	0.05	10	0.80	305	1	0.02	26	720	5	0.07	<2	3
CC12582		2.85	10	<1	0.05	10	0.82	568	1	0.02	29	770	6	0.07	<2	3
CC12583		2.84	<10	<1	0.05	10	0.81	555	<1	0.02	29	700	6	0.03	<2	4
CC12584		4.21	10	<1	0.10	10	1.18	726	1	0.03	51	790	6	0.05	<2	6
CC12585		5.35	10	<1	0.07	10	1.14	1050	1	0.02	49	920	9	0.08	<2	7
CC12620		3.59	<10	<1	0.04	20	0.62	656	5	0.02	42	1410	17	0.04	2	4
CC12621		5.28	<10	<1	0.04	20	0.74	1005	3	0.02	44	1610	38	0.13	2	5
CC12622		5.16	<10	1	0.03	20	0.71	1000	21	0.02	45	1510	20	0.17	3	2
CC12623		3.75	<10	<1	0.03	20	0.74	879	5	0.01	31	1240	18	0.08	2	4
CC12624		4.35	<10	<1	0.03	20	0.86	653	4	0.01	33	1370	17	0.07	2	4
CC12625		3.68	10	<1	0.06	10	1.32	653	3	0.02	48	1540	12	0.06	<2	6
CC12626		4.26	<10	<1	0.03	20	0.59	814	4	0.01	37	1450	13	0.11	3	3



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CERTIFICATE OF ANALYSIS VA05063481

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Tl	Tl	U	V	W	Zn
		ppm 1	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC12553		28	0.04	<10	<10	87	<10	67
CC12554		13	0.07	<10	<10	79	<10	57
CC12555		19	0.05	<10	<10	127	<10	95
CC12556		20	0.06	<10	<10	121	<10	90
CC12557		19	0.07	<10	<10	67	<10	55
CC12558		20	0.10	<10	<10	68	<10	60
CC12559		17	0.09	<10	<10	69	<10	46
CC12560		13	0.06	<10	<10	71	<10	59
CC12561		19	0.10	<10	<10	100	<10	52
CC12562		13	0.06	<10	<10	65	<10	46
CC12563		15	0.07	<10	<10	59	<10	31
CC12564		11	0.01	<10	<10	100	<10	112
CC12565		14	0.04	<10	<10	52	<10	53
CC12566		21	0.04	<10	<10	64	<10	88
CC12567		11	0.12	<10	<10	81	<10	47
CC12568		16	0.11	<10	<10	102	<10	61
CC12569		18	0.05	<10	<10	190	<10	112
CC12570		18	0.10	<10	<10	90	<10	60
CC12571		16	0.14	<10	<10	112	<10	84
CC12572		16	0.13	<10	<10	101	<10	82
CC12573		16	0.12	<10	<10	117	<10	104
CC12574		12	0.12	<10	<10	85	<10	60
CC12575		11	0.12	<10	<10	80	<10	63
CC12576		13	0.10	<10	<10	73	<10	78
CC12577		10	0.09	<10	<10	69	<10	48
CC12578		12	0.10	<10	<10	71	<10	67
CC12579		12	0.08	<10	<10	47	<10	42
CC12580		12	0.12	<10	<10	70	<10	86
CC12581		9	0.08	<10	<10	65	<10	52
CC12582		21	0.07	<10	<10	67	<10	58
CC12583		14	0.08	<10	<10	70	<10	59
CC12584		18	0.11	<10	<10	90	<10	105
CC12585		15	0.11	<10	<10	94	<10	142
CC12620		53	0.03	<10	<10	36	<10	134
CC12621		119	0.02	<10	<10	30	<10	238
CC12622		102	0.02	<10	<10	32	<10	202
CC12623		81	0.02	<10	<10	39	<10	128
CC12624		73	0.01	<10	<10	32	<10	170
CC12625		83	0.04	<10	<10	69	<10	102
CC12626		46	0.02	<10	<10	34	<10	113



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Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.005	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
CC12627		0.22	0.009		0.6	1.62	51	<10	380	1.5	2	0.78	<0.5	34	40	72
CC12628		0.18	0.012		0.4	0.91	59	<10	220	0.5	<2	4.11	0.6	23	33	104
CC12629		0.16	0.029		0.7	1.32	114	<10	180	0.7	<2	1.08	<0.5	27	24	59
CC12630		0.16	<0.005		0.2	0.66	4	<10	40	<0.5	<2	0.12	<0.5	4	11	19
CC12631		0.22	0.106		0.7	1.30	238	<10	120	0.5	<2	0.59	<0.5	26	33	104
CC12632		0.18	0.011		0.2	1.78	21	<10	90	<0.5	<2	0.26	<0.5	11	44	31
CC12633		0.20	0.014		0.2	2.31	51	<10	70	0.5	<2	0.34	<0.5	22	59	49
CC12634		0.18	0.028		0.5	1.64	147	<10	50	<0.5	<2	0.27	<0.5	17	69	53
CC12635		0.20	0.017		0.3	1.40	33	<10	100	0.5	<2	0.60	<0.5	27	49	69
CC12636		0.20	0.213		1.1	2.75	70	<10	110	0.6	<2	0.61	<0.5	24	55	111
CC12637		0.18	0.005		0.3	1.00	2	<10	50	<0.5	<2	0.61	<0.5	7	13	23
CC12638		0.18	0.459		0.5	2.22	25	<10	90	0.6	2	1.00	<0.5	24	36	59
CC12639		0.18	0.007		<0.2	2.23	8	<10	70	<0.5	<2	0.38	<0.5	17	37	49
CC12640		0.20	<0.005		0.2	2.27	5	<10	60	<0.5	<2	0.55	<0.5	18	35	35
CC12641		0.18	0.088		0.5	1.54	32	<10	140	0.7	2	0.72	0.7	44	31	87
CC12642		0.22	0.017		0.2	2.25	22	<10	80	<0.5	<2	0.87	<0.5	21	46	65
CC12643		0.22	<0.005		<0.2	1.46	6	<10	150	<0.5	<2	0.22	<0.5	18	38	17
CC12644		0.18	0.007		0.2	1.92	9	<10	60	<0.5	<2	0.26	<0.5	16	35	42
CC12645		0.24	<0.005		<0.2	1.55	7	<10	70	<0.5	<2	0.14	<0.5	7	33	18
CC12646		0.24	<0.005		0.3	1.61	13	<10	170	0.8	<2	0.43	<0.5	14	20	29
CC12647		0.20	0.005		<0.2	2.33	7	<10	100	0.5	<2	0.30	<0.5	25	13	48
CC12648		0.24	0.005	0.006	0.3	1.65	9	<10	70	<0.5	<2	0.19	<0.5	14	36	29
CC12649		0.22	1.395	1.135	1.2	2.27	32	<10	70	0.5	<2	0.34	<0.5	27	68	67



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CERTIFICATE OF ANALYSIS VA05063481

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
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
		0.01	10	1	0.01	10	0.01	5	0.01	1	10	2	0.01	2	1	
CC12627		5.84	<10	<1	0.09	40	0.59	1430	7	0.01	63	1270	39	0.14	5	5
CC12628		4.66	<10	<1	0.04	10	0.58	840	3	0.01	48	790	8	0.22	3	6
CC12629		4.43	<10	<1	0.07	30	0.44	2120	3	0.01	43	1410	43	0.13	<2	5
CC12630		1.39	<10	<1	0.03	<10	0.20	182	<1	0.02	6	480	3	0.05	<2	<1
CC12631		5.67	<10	<1	0.08	10	0.56	1010	2	0.01	40	750	12	0.05	<2	15
CC12632		3.11	10	<1	0.05	10	0.76	442	1	0.02	30	720	9	0.06	<2	3
CC12633		4.49	10	<1	0.05	10	1.14	713	1	0.01	42	840	7	0.06	<2	5
CC12634		6.11	10	<1	0.03	10	0.93	600	8	0.02	30	1190	20	0.09	<2	4
CC12635		6.12	<10	<1	0.07	10	0.63	1245	1	0.01	49	640	5	0.04	<2	19
CC12636		5.28	10	<1	0.13	10	1.56	1160	1	0.02	32	920	39	0.07	<2	16
CC12637		1.64	<10	<1	0.03	10	0.35	353	1	0.02	9	790	4	0.08	<2	1
CC12638		4.72	10	<1	0.05	10	1.20	1475	1	0.02	27	1340	10	0.10	<2	10
CC12639		3.69	10	<1	0.03	10	1.33	699	1	0.02	21	1030	7	0.07	<2	5
CC12640		4.96	10	<1	0.05	10	1.48	650	1	0.01	21	870	6	0.08	<2	7
CC12641		10.10	<10	<1	0.09	10	0.91	2450	1	0.01	46	1310	6	0.07	<2	33
CC12642		4.52	10	<1	0.06	10	1.05	1270	1	0.02	30	1600	8	0.11	2	7
CC12643		6.43	<10	<1	0.03	10	0.35	903	1	0.01	24	1290	5	0.05	<2	11
CC12644		3.96	10	<1	0.04	10	0.85	792	1	0.02	25	690	31	0.03	<2	5
CC12645		3.20	10	<1	0.04	10	0.53	329	1	0.01	19	380	11	0.03	<2	2
CC12646		4.42	<10	<1	0.08	20	0.48	778	1	0.01	21	1260	22	0.02	<2	8
CC12647		5.78	10	<1	0.05	10	0.84	2140	1	0.02	10	1590	12	0.06	<2	13
CC12648		3.40	<10	<1	0.04	10	0.60	715	2	0.01	21	770	15	0.07	<2	3
CC12649		5.67	10	<1	0.05	10	1.37	1160	2	0.01	46	760	7	0.05	<2	13



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CERTIFICATE OF ANALYSIS VA05063481

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sr	Ti	Ti	U	V	W	Zn
		ppm 1	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC12627		41	<0.01	<10	<10	34	<10	102
CC12628		204	<0.01	<10	<10	42	<10	112
CC12629		48	0.01	<10	<10	43	<10	91
CC12630		10	0.03	<10	<10	33	<10	22
CC12631		33	0.02	<10	<10	82	<10	88
CC12632		18	0.05	<10	<10	69	<10	57
CC12633		19	0.10	<10	<10	115	<10	61
CC12634		18	0.06	<10	<10	144	<10	66
CC12635		21	0.02	<10	<10	112	<10	72
CC12636		29	0.07	<10	<10	165	<10	110
CC12637		26	0.03	<10	<10	47	<10	25
CC12638		36	0.04	<10	<10	134	<10	66
CC12639		18	0.07	<10	<10	117	<10	53
CC12640		22	0.17	<10	<10	163	<10	61
CC12641		24	0.01	<10	<10	183	<10	125
CC12642		32	0.03	<10	<10	109	<10	62
CC12643		13	0.01	<10	<10	113	<10	55
CC12644		13	0.09	<10	<10	70	<10	52
CC12645		11	0.09	<10	<10	67	<10	40
CC12646		16	0.01	<10	<10	59	<10	66
CC12647		18	0.05	<10	<10	112	<10	76
CC12648		13	0.07	<10	<10	87	<10	39
CC12649		17	0.03	<10	<10	128	<10	62



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Project: Hartles Joe
P.O. No.:
This report is for 232 Soil samples submitted to our lab in Vancouver, BC, Canada on 2-AUG-2005.

The following have access to data associated with this certificate:

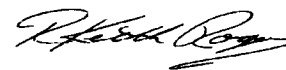
AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SCR-41	Screen to -180um and save both
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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

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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
CC19269		0.22	0.008	<0.2	2.26	4	<10	80	<0.5	<2	0.24	<0.5	13	49	35	3.03
CC19270		0.24	0.009	0.2	2.27	4	<10	100	<0.5	<2	0.47	<0.5	16	52	42	3.34
CC19271		0.26	<0.005	<0.2	2.07	4	<10	80	<0.5	<2	0.45	<0.5	16	50	59	3.26
CC19272		0.26	0.010	0.2	2.25	3	<10	80	<0.5	<2	0.48	<0.5	16	53	70	3.41
CC19273		0.28	<0.005	<0.2	2.10	6	<10	100	<0.5	<2	0.23	<0.5	13	50	30	2.93
CC19274		0.24	<0.005	<0.2	2.19	3	<10	80	<0.5	<2	0.41	<0.5	21	39	63	3.37
CC19275		0.28	<0.005	<0.2	2.05	5	<10	70	<0.5	<2	0.37	<0.5	18	40	58	3.25
CC19276		0.32	0.006	<0.2	2.02	3	<10	40	<0.5	<2	0.15	<0.5	12	50	26	2.89
CC19277		0.30	0.010	<0.2	1.73	3	<10	70	<0.5	<2	0.24	<0.5	15	39	38	3.10
CC19278		0.32	<0.005	0.2	2.76	5	<10	100	0.5	<2	0.50	<0.5	28	50	93	5.09
CC19279		0.28	0.007	<0.2	2.08	5	<10	80	<0.5	<2	0.24	<0.5	15	50	36	3.21
CC19280		0.24	0.040	<0.2	2.20	4	<10	100	<0.5	2	0.23	<0.5	14	54	30	3.14
CC19281		0.28	0.082	0.2	2.13	6	<10	90	<0.5	<2	0.25	<0.5	15	56	31	3.35
CC19282		0.30	0.006	<0.2	2.16	4	<10	90	<0.5	<2	0.27	<0.5	15	53	35	3.10
CC19283		0.26	<0.005	<0.2	2.26	3	<10	60	<0.5	<2	0.25	<0.5	12	47	35	2.78
CC19284		0.20	0.014	<0.2	2.91	5	<10	170	0.6	<2	0.29	<0.5	17	63	58	3.81
CC19285		0.22	<0.005	<0.2	2.81	5	<10	120	0.6	<2	0.60	<0.5	16	62	41	4.01
CC19286		0.24	<0.005	<0.2	1.92	4	<10	100	<0.5	<2	0.48	<0.5	11	61	26	2.98
CC19287		0.20	<0.005	0.2	1.21	<2	<10	60	<0.5	<2	0.34	<0.5	5	22	19	1.80
CC19288		0.24	<0.005	<0.2	1.88	4	<10	70	<0.5	<2	0.19	<0.5	11	43	30	3.37
CC19289		0.22	0.005	<0.2	1.51	2	<10	80	<0.5	<2	0.26	<0.5	10	50	21	2.72
CC19290		0.22	<0.005	<0.2	1.95	4	<10	90	<0.5	<2	0.37	<0.5	13	56	31	2.83
CC19291		0.26	0.007	<0.2	1.86	<2	<10	90	<0.5	<2	0.27	<0.5	11	51	29	2.64
CC19292		0.26	0.010	<0.2	2.00	3	<10	80	<0.5	<2	0.25	<0.5	11	56	24	2.80
CC19293		0.20	<0.005	<0.2	1.78	3	<10	80	<0.5	<2	0.29	<0.5	15	36	43	4.16
CC19294		0.26	<0.005	<0.2	2.39	6	<10	100	<0.5	<2	0.43	<0.5	15	62	35	3.27
CC19295		0.16	0.013	<0.2	2.15	4	<10	140	<0.5	<2	0.38	<0.5	14	53	36	3.10
CC19296		0.24	<0.005	0.2	2.10	2	<10	130	<0.5	<2	0.22	<0.5	14	46	37	3.21
CC19297		0.26	0.016	<0.2	1.99	6	<10	80	<0.5	<2	0.25	<0.5	13	46	32	2.95
CC19298		0.30	0.006	<0.2	1.96	2	<10	80	<0.5	<2	0.28	<0.5	16	47	39	3.22
CC19299		0.26	<0.005	<0.2	2.01	4	<10	110	<0.5	<2	0.24	<0.5	10	45	28	2.67
CC19300		0.20	0.006	<0.2	2.18	3	<10	80	<0.5	<2	0.17	<0.5	13	37	27	2.56
CC19301		0.20	0.017	<0.2	2.63	5	<10	100	<0.5	<2	0.31	<0.5	17	65	34	3.36
CC19302		0.22	<0.005	<0.2	1.93	8	<10	80	<0.5	<2	0.36	<0.5	17	46	35	2.94
CC19303		0.20	<0.005	<0.2	2.20	5	<10	90	<0.5	<2	0.26	<0.5	15	56	31	3.20
CC19304		0.22	0.006	<0.2	1.97	5	<10	90	<0.5	<2	0.29	<0.5	14	52	34	2.95
CC19305		0.22	0.005	<0.2	1.15	3	<10	60	<0.5	<2	0.25	<0.5	9	30	17	2.37
CC19306		0.22	0.005	<0.2	2.29	7	<10	80	<0.5	<2	0.22	<0.5	13	58	25	3.17
CC19307		0.24	0.014	<0.2	1.58	6	<10	120	<0.5	<2	0.29	<0.5	11	37	27	2.71
CC19308		0.22	<0.005	<0.2	2.01	5	<10	90	<0.5	<2	0.29	<0.5	12	49	36	3.02

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 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
CC19269		10	<1	0.05	10	0.94	583	<1	0.01	29	770	7	0.06	2	2	14
CC19270		10	<1	0.04	10	1.06	639	1	0.01	30	710	7	0.05	<2	3	22
CC19271		10	<1	0.04	10	1.08	505	<1	0.01	32	530	4	0.03	<2	4	17
CC19272		10	<1	0.04	10	1.15	563	<1	0.01	35	560	6	0.03	<2	5	18
CC19273		10	<1	0.05	10	0.85	559	1	0.01	31	530	6	0.05	<2	3	14
CC19274		10	<1	0.04	10	0.88	751	1	0.01	30	1220	7	0.09	<2	2	18
CC19275		10	<1	0.04	10	0.87	646	1	0.01	31	1120	5	0.07	<2	2	16
CC19276		10	<1	0.07	10	0.85	405	1	<0.01	25	620	5	0.04	<2	3	9
CC19277		10	<1	0.04	10	0.77	578	<1	0.01	25	570	6	0.06	<2	3	14
CC19278		10	<1	0.07	10	1.35	1430	1	0.01	37	910	13	0.04	<2	11	26
CC19279		10	<1	0.05	10	0.97	630	<1	0.01	31	520	5	0.04	<2	3	12
CC19280		10	<1	0.05	10	0.93	806	1	0.01	31	720	6	0.07	<2	2	15
CC19281		10	<1	0.06	10	1.07	573	<1	0.01	32	550	5	0.05	2	3	13
CC19282		10	<1	0.05	10	1.00	698	<1	0.01	32	670	6	0.04	<2	3	15
CC19283		10	<1	0.05	10	0.91	450	<1	0.01	29	630	5	0.04	<2	3	14
CC19284		10	<1	0.06	10	1.16	1055	1	0.01	38	1070	13	0.08	2	4	19
CC19285		10	<1	0.06	10	1.28	961	1	0.01	34	1700	13	0.10	<2	5	24
CC19286		10	<1	0.06	10	0.98	542	<1	0.01	31	820	7	0.07	<2	2	17
CC19287		<10	<1	0.03	10	0.31	420	1	0.01	11	940	5	0.09	<2	<1	14
CC19288		10	<1	0.04	10	0.71	494	1	<0.01	26	690	5	0.06	<2	2	11
CC19289		<10	<1	0.05	10	0.75	399	1	0.01	25	450	5	0.04	<2	2	14
CC19290		<10	<1	0.05	10	0.98	451	<1	0.01	32	580	4	0.06	<2	3	17
CC19291		10	<1	0.05	10	0.89	418	1	0.01	31	590	4	0.05	<2	3	14
CC19292		10	<1	0.07	10	0.89	438	1	0.01	35	460	4	0.04	<2	3	12
CC19293		10	<1	0.05	<10	0.62	911	<1	0.01	22	1160	5	0.10	<2	4	16
CC19294		10	<1	0.08	10	1.10	645	<1	0.01	38	760	6	0.06	<2	3	17
CC19295		<10	<1	0.06	10	0.79	943	1	0.01	28	1270	10	0.10	<2	2	19
CC19296		10	<1	0.05	10	0.77	1210	<1	0.01	23	1290	10	0.12	<2	1	15
CC19297		10	<1	0.05	10	0.93	502	<1	0.01	30	590	5	0.04	<2	3	14
CC19298		<10	<1	0.03	10	1.10	508	<1	0.01	31	550	7	0.03	2	5	14
CC19299		<10	<1	0.05	10	0.73	451	1	0.01	26	600	6	0.05	<2	2	16
CC19300		10	<1	0.04	10	0.46	867	1	0.01	18	850	6	0.09	2	1	18
CC19301		10	<1	0.07	10	1.18	634	1	0.01	41	550	5	0.03	<2	5	13
CC19302		<10	<1	0.06	10	0.88	532	1	0.01	33	640	4	0.03	<2	4	18
CC19303		10	<1	0.07	10	0.99	608	1	0.01	35	550	6	0.06	<2	4	13
CC19304		<10	<1	0.06	10	0.89	516	1	0.01	35	430	6	0.03	<2	4	14
CC19305		<10	<1	0.06	10	0.53	446	<1	0.01	18	590	5	0.05	2	1	17
CC19306		10	<1	0.06	10	0.95	492	<1	<0.01	32	500	8	0.04	<2	3	12
CC19307		<10	1	0.04	10	0.70	573	<1	0.01	25	410	10	0.03	<2	4	15
CC19308		10	<1	0.06	10	0.91	524	<1	<0.01	28	630	6	0.05	<2	3	15

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
CC19269		0.09	<10	<10	75	<10	63
CC19270		0.11	<10	<10	82	<10	55
CC19271		0.13	<10	<10	79	<10	48
CC19272		0.13	<10	<10	83	<10	51
CC19273		0.11	<10	<10	71	<10	51
CC19274		0.09	<10	<10	71	<10	88
CC19275		0.10	<10	<10	69	<10	83
CC19276		0.12	<10	<10	73	<10	59
CC19277		0.13	<10	<10	78	<10	52
CC19278		0.11	<10	<10	116	<10	75
CC19279		0.12	<10	<10	77	<10	51
CC19280		0.10	<10	<10	79	<10	58
CC19281		0.11	<10	<10	82	<10	56
CC19282		0.11	<10	<10	76	<10	55
CC19283		0.11	<10	<10	67	<10	54
CC19284		0.06	<10	<10	92	<10	68
CC19285		0.05	<10	<10	100	<10	75
CC19286		0.09	<10	<10	70	<10	61
CC19287		0.02	<10	<10	47	<10	27
CC19288		0.05	<10	<10	79	<10	52
CC19289		0.12	<10	<10	68	<10	40
CC19290		0.12	<10	<10	70	<10	43
CC19291		0.11	<10	<10	64	<10	43
CC19292		0.11	<10	<10	66	<10	49
CC19293		0.04	<10	<10	107	<10	54
CC19294		0.11	<10	<10	75	<10	61
CC19295		0.05	<10	<10	72	<10	62
CC19296		0.06	<10	<10	82	<10	48
CC19297		0.09	<10	<10	70	<10	50
CC19298		0.11	<10	<10	78	<10	45
CC19299		0.09	<10	<10	63	<10	48
CC19300		0.07	<10	<10	62	<10	48
CC19301		0.16	<10	<10	83	<10	53
CC19302		0.14	<10	<10	72	<10	52
CC19303		0.14	<10	<10	77	<10	55
CC19304		0.13	<10	<10	71	<10	53
CC19305		0.07	<10	<10	55	<10	42
CC19306		0.13	<10	<10	76	<10	54
CC19307		0.07	<10	<10	57	10	46
CC19308		0.11	<10	<10	71	<10	53

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
CC19309		0.18	<0.005	<0.2	1.98	5	<10	100	<0.5	<2	0.25	<0.5	11	52	26	3.06
CC19310		0.20	<0.005	<0.2	2.37	7	<10	90	<0.5	<2	0.23	<0.5	10	56	26	3.15
CC19311		0.26	<0.005	<0.2	1.54	4	<10	60	<0.5	<2	0.19	<0.5	9	32	28	2.49
CC19312		0.22	<0.005	<0.2	1.60	5	<10	70	<0.5	<2	0.18	<0.5	6	35	17	2.39
CC19313		0.20	0.005	<0.2	1.76	6	<10	110	<0.5	<2	0.25	<0.5	9	47	26	2.77
CC19314		0.28	<0.005	<0.2	2.26	8	<10	100	<0.5	<2	0.23	<0.5	12	48	30	2.72
CC19315		0.18	<0.005	<0.2	1.50	4	<10	100	<0.5	2	0.21	<0.5	9	38	25	2.43
CC19316		0.16	<0.005	<0.2	1.77	5	<10	140	<0.5	<2	0.26	<0.5	11	43	24	2.46
CC19317		0.24	<0.005	<0.2	1.91	8	<10	100	<0.5	<2	0.26	<0.5	13	53	27	3.03
CC19318		0.18	<0.005	<0.2	1.68	7	<10	110	<0.5	<2	0.28	<0.5	11	36	27	2.47
CC19319		0.20	0.017	<0.2	1.54	6	<10	120	<0.5	<2	0.22	<0.5	9	40	23	2.23
CC19320		0.26	0.012	<0.2	2.10	9	<10	110	<0.5	<2	0.28	<0.5	13	49	36	2.69
CC19321		0.18	<0.005	<0.2	2.11	6	<10	130	<0.5	<2	0.24	<0.5	10	46	27	2.59
CC19322		0.26	0.133	<0.2	1.32	4	<10	100	<0.5	<2	0.43	<0.5	10	38	27	2.52
CC19323		0.22	0.006	<0.2	2.15	6	<10	150	<0.5	<2	0.25	<0.5	12	54	33	2.97
CC19324		0.24	0.005	<0.2	1.87	5	<10	100	<0.5	<2	0.24	<0.5	11	39	28	2.59
CC19325		0.28	0.005	<0.2	2.10	7	<10	120	<0.5	<2	0.24	<0.5	12	55	31	2.79
CC19326		0.22	<0.005	<0.2	1.67	4	<10	110	<0.5	2	0.24	<0.5	10	40	27	2.49
CC19327		0.22	0.006	0.5	1.41	3	<10	60	<0.5	<2	0.45	<0.5	11	31	37	2.28
CC19328		0.24	<0.005	<0.2	1.68	7	<10	110	<0.5	<2	0.20	<0.5	8	41	20	2.55
CC19329		0.22	<0.005	<0.2	2.09	6	<10	150	<0.5	<2	0.24	<0.5	11	46	28	2.77
CC19330		0.24	0.006	0.2	2.08	7	<10	160	<0.5	<2	0.32	<0.5	13	49	33	2.76
CC19331		0.22	<0.005	<0.2	1.59	3	<10	110	<0.5	<2	0.23	<0.5	9	39	20	2.27
CC19332		0.22	0.005	<0.2	1.42	<2	<10	80	<0.5	<2	0.37	<0.5	11	32	24	2.49
CC19333		0.20	<0.005	<0.2	1.67	5	<10	80	<0.5	<2	0.18	<0.5	8	43	22	2.49
CC19334		0.24	0.005	0.2	2.00	5	<10	110	<0.5	<2	0.29	<0.5	13	45	55	3.01
CC19335		0.22	<0.005	<0.2	2.38	2	<10	130	<0.5	<2	0.36	<0.5	16	54	84	3.28
CC19336		0.18	0.006	<0.2	2.11	5	<10	110	<0.5	<2	0.38	<0.5	25	47	162	3.17
CC19337		0.18	0.005	<0.2	1.88	3	<10	90	<0.5	<2	0.50	<0.5	15	39	52	3.02
CC19338		0.16	<0.005	0.2	2.08	2	<10	100	<0.5	<2	0.44	<0.5	15	43	66	2.71
CC19339		0.22	<0.005	<0.2	1.45	3	<10	60	<0.5	<2	0.21	<0.5	10	30	29	2.12
CC19340		0.16	<0.005	<0.2	1.50	8	<10	80	<0.5	<2	0.24	<0.5	16	33	95	2.46
CC19341		0.24	<0.005	<0.2	1.99	6	<10	120	<0.5	<2	0.49	<0.5	17	52	74	2.89
CC19342		0.22	<0.005	0.2	1.93	6	<10	110	<0.5	<2	0.27	<0.5	16	47	56	3.02
CC19343		0.18	<0.005	<0.2	2.71	9	<10	120	<0.5	<2	0.34	<0.5	35	59	114	4.17
CC19344		0.20	<0.005	<0.2	0.95	3	<10	40	<0.5	<2	0.10	<0.5	3	27	12	1.91
CC19345		0.18	<0.005	<0.2	2.45	29	<10	120	<0.5	<2	0.33	<0.5	24	54	126	3.74
CC19346		0.18	<0.005	<0.2	0.61	3	<10	20	<0.5	<2	0.28	<0.5	1	13	7	0.63
CC19347		0.18	0.008	0.2	2.11	10	<10	110	<0.5	<2	0.49	<0.5	29	77	65	3.95
CC19348		0.22	<0.005	0.3	2.65	6	<10	100	0.5	<2	0.49	<0.5	24	90	75	4.82

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
CC19309		10	1	0.06	10	0.84	501	<1	<0.01	28	670	6	0.07	<2	3	14
CC19310		10	<1	0.08	10	0.88	536	<1	<0.01	30	630	6	0.06	<2	3	14
CC19311		<10	<1	0.04	10	0.57	335	<1	<0.01	20	550	8	0.02	<2	3	11
CC19312		10	1	0.05	10	0.49	308	<1	<0.01	16	590	7	0.07	<2	1	13
CC19313		10	1	0.06	10	0.70	480	<1	0.01	25	720	8	0.08	<2	2	16
CC19314		10	<1	0.07	10	0.76	521	1	0.01	28	610	10	0.04	<2	2	14
CC19315		<10	<1	0.06	10	0.55	490	1	0.01	20	870	6	0.10	<2	1	16
CC19316		<10	<1	0.06	10	0.65	698	1	0.01	25	640	5	0.06	<2	2	18
CC19317		10	<1	0.08	10	0.78	819	1	0.01	32	590	7	0.06	<2	2	17
CC19318		<10	<1	0.06	10	0.69	473	1	0.01	29	660	4	0.06	2	2	17
CC19319		<10	<1	0.06	10	0.58	395	1	0.01	26	830	5	0.08	<2	1	14
CC19320		10	<1	0.09	10	0.85	461	<1	0.01	35	540	6	0.02	<2	4	14
CC19321		10	<1	0.07	10	0.68	448	1	0.01	26	710	6	0.05	<2	1	16
CC19322		<10	<1	0.06	10	0.66	405	<1	0.01	24	840	3	0.01	<2	4	21
CC19323		10	<1	0.09	10	0.84	456	1	0.01	34	650	7	0.05	<2	3	15
CC19324		10	<1	0.06	10	0.65	561	<1	0.01	25	660	5	0.04	<2	2	15
CC19325		10	<1	0.08	10	0.80	423	<1	0.01	32	540	7	0.04	<2	3	14
CC19326		<10	<1	0.05	10	0.58	376	<1	0.01	25	550	7	0.05	<2	2	15
CC19327		<10	<1	0.05	10	0.62	395	<1	0.01	20	890	4	0.01	<2	4	25
CC19328		10	<1	0.08	10	0.63	286	1	0.01	23	450	7	0.03	<2	3	14
CC19329		10	<1	0.10	10	0.77	474	1	0.01	27	510	10	0.04	<2	2	18
CC19330		<10	<1	0.10	10	0.94	536	1	0.01	44	630	9	0.02	<2	5	18
CC19331		<10	<1	0.08	10	0.59	339	<1	0.01	23	520	7	0.04	<2	2	16
CC19332		<10	<1	0.06	10	0.65	314	<1	0.01	20	910	3	0.02	<2	3	22
CC19333		<10	<1	0.08	10	0.61	299	1	0.01	22	650	6	0.06	<2	2	13
CC19334		10	<1	0.08	10	0.74	481	1	0.02	29	710	23	0.07	<2	3	26
CC19335		10	<1	0.07	10	0.88	544	1	0.02	34	710	6	0.06	2	4	21
CC19336		10	<1	0.06	10	0.77	539	1	0.02	32	740	6	0.07	<2	3	22
CC19337		10	<1	0.06	10	0.70	470	1	0.02	27	910	5	0.07	<2	4	21
CC19338		10	<1	0.07	10	0.66	502	1	0.01	25	910	6	0.08	<2	3	23
CC19339		<10	<1	0.04	10	0.49	311	<1	0.01	20	570	6	0.03	<2	2	12
CC19340		<10	<1	0.06	10	0.58	419	1	0.02	24	680	4	0.04	<2	3	15
CC19341		10	<1	0.08	10	0.80	564	1	0.02	32	760	6	0.08	<2	4	21
CC19342		10	<1	0.07	10	0.70	416	1	0.01	27	620	7	0.05	<2	3	15
CC19343		10	<1	0.08	10	0.95	930	1	0.02	37	870	7	0.07	<2	4	22
CC19344		10	<1	0.04	10	0.22	136	1	0.01	9	500	7	0.05	<2	1	9
CC19345		10	<1	0.06	10	0.98	687	1	0.02	38	980	13	0.07	2	3	21
CC19346		<10	<1	0.02	<10	0.10	79	<1	0.03	2	530	2	0.05	<2	<1	12
CC19347		10	<1	0.05	10	1.16	1020	1	0.01	47	970	10	0.06	<2	8	24
CC19348		10	<1	0.05	10	1.54	1510	<1	0.01	45	1270	9	0.08	2	15	20

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC19309		0.11	<10	<10	70	<10	52
CC19310		0.10	<10	<10	72	<10	68
CC19311		0.07	<10	<10	54	<10	48
CC19312		0.07	<10	<10	55	<10	40
CC19313		0.09	<10	<10	66	<10	49
CC19314		0.09	<10	<10	62	<10	56
CC19315		0.08	<10	<10	58	<10	50
CC19316		0.09	<10	<10	62	<10	42
CC19317		0.10	<10	<10	75	<10	66
CC19318		0.10	<10	<10	58	<10	44
CC19319		0.05	<10	<10	52	<10	37
CC19320		0.12	<10	<10	65	<10	50
CC19321		0.06	<10	<10	62	<10	49
CC19322		0.12	<10	<10	62	<10	43
CC19323		0.09	<10	<10	70	<10	51
CC19324		0.08	<10	<10	63	<10	44
CC19325		0.10	<10	<10	68	<10	47
CC19326		0.09	<10	<10	61	<10	40
CC19327		0.13	<10	<10	58	<10	41
CC19328		0.09	<10	<10	62	<10	37
CC19329		0.08	<10	<10	64	<10	50
CC19330		0.11	<10	<10	64	<10	53
CC19331		0.08	<10	<10	54	<10	37
CC19332		0.11	<10	<10	61	<10	46
CC19333		0.08	<10	<10	60	<10	35
CC19334		0.09	<10	<10	73	<10	60
CC19335		0.09	<10	<10	80	<10	59
CC19336		0.09	<10	<10	69	<10	120
CC19337		0.07	<10	<10	75	<10	43
CC19338		0.08	<10	<10	67	<10	47
CC19339		0.07	<10	<10	49	<10	38
CC19340		0.08	<10	<10	57	<10	64
CC19341		0.09	<10	<10	72	<10	71
CC19342		0.08	<10	<10	69	<10	52
CC19343		0.10	<10	<10	90	<10	79
CC19344		0.07	<10	<10	56	<10	24
CC19345		0.07	<10	<10	79	<10	114
CC19346		0.04	<10	<10	18	<10	9
CC19347		0.09	<10	<10	93	<10	67
CC19348		0.05	<10	<10	133	<10	65

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
CC19349		0.16	0.006	0.2	2.53	6	<10	90	<0.5	<2	0.84	<0.5	24	35	59	4.90
CC19350		0.14	<0.005	<0.2	2.13	3	<10	80	<0.5	<2	0.31	<0.5	15	58	44	3.33
CC19351		0.12	0.011	<0.2	2.07	5	<10	90	<0.5	<2	0.51	<0.5	18	53	44	3.48
CC19352		0.16	0.015	<0.2	1.92	3	<10	80	<0.5	<2	0.32	<0.5	15	59	36	3.48
CC19353		0.18	0.013	0.2	2.21	6	<10	90	<0.5	<2	0.83	<0.5	23	57	71	3.55
CC19354		0.16	<0.005	<0.2	2.06	3	<10	80	<0.5	<2	0.44	<0.5	17	54	41	3.55
CC19355		0.16	0.010	<0.2	2.00	3	<10	90	<0.5	<2	0.61	<0.5	16	49	37	3.24
CC19356		0.16	0.018	<0.2	1.58	8	<10	150	0.5	<2	0.53	<0.5	12	41	23	3.03
CC19357		0.14	0.127	1.0	1.54	35	<10	120	0.5	<2	1.05	2.0	21	55	88	5.70
CC19358		0.16	0.009	0.3	3.24	5	<10	80	<0.5	<2	0.67	<0.5	31	32	61	5.41
CC19359		0.16	<0.005	0.2	1.74	7	<10	80	<0.5	<2	0.32	<0.5	15	40	41	3.08
CC19360		0.16	<0.005	<0.2	2.09	5	<10	70	<0.5	<2	0.51	<0.5	17	51	73	3.63
CC19361		0.16	0.017	<0.2	1.96	5	<10	60	<0.5	<2	0.34	<0.5	17	54	43	3.64
CC19362		0.22	<0.005	<0.2	2.12	17	<10	110	<0.5	<2	0.34	<0.5	37	111	78	6.50
CC19363		0.16	0.005	<0.2	2.40	4	<10	90	<0.5	<2	0.51	<0.5	20	58	72	3.73
CC19364		0.18	<0.005	0.2	2.32	3	<10	100	<0.5	<2	0.59	<0.5	23	52	71	3.80
CC19365		0.18	0.005	<0.2	2.12	7	<10	80	<0.5	<2	0.42	<0.5	12	54	41	3.12
CC19366		0.20	<0.005	<0.2	2.09	4	<10	80	<0.5	<2	0.41	<0.5	12	53	40	3.08
CC19367		0.14	<0.005	<0.2	1.75	3	<10	70	<0.5	<2	0.38	<0.5	13	38	58	2.70
CC19368		0.10	<0.005	<0.2	1.42	6	<10	90	<0.5	<2	0.28	<0.5	14	30	41	2.35
CC19369		0.14	<0.005	0.2	2.72	6	<10	90	<0.5	<2	0.63	<0.5	21	63	63	4.34
CC19370		0.12	<0.005	0.2	1.84	6	<10	60	<0.5	<2	0.60	<0.5	15	39	88	2.99
CC19371		0.20	<0.005	<0.2	1.96	4	<10	90	<0.5	<2	0.81	<0.5	20	54	85	3.10
CC19372		0.14	<0.005	<0.2	2.01	4	<10	60	<0.5	<2	0.22	<0.5	13	60	29	2.67
CC19373		0.12	<0.005	<0.2	2.03	2	<10	110	<0.5	<2	0.58	<0.5	14	66	29	2.88
CC19374		0.16	<0.005	<0.2	2.06	4	<10	90	<0.5	<2	0.35	<0.5	14	70	29	2.85
CC19375		0.18	<0.005	<0.2	2.03	6	<10	80	<0.5	<2	0.35	<0.5	13	73	32	3.01
CC19376		0.12	<0.005	<0.2	1.28	2	<10	60	<0.5	<2	0.34	<0.5	12	29	30	2.04
CC19377		0.16	<0.005	<0.2	1.54	5	<10	50	<0.5	<2	0.22	<0.5	11	33	35	2.28
CC19378		0.12	<0.005	0.2	1.98	2	<10	80	<0.5	<2	0.28	<0.5	17	31	44	3.87
CC19379		0.08	<0.005	<0.2	0.30	<2	<10	20	<0.5	<2	0.09	<0.5	2	3	4	0.70
CC19380		0.12	<0.005	0.2	1.40	4	<10	80	<0.5	<2	0.32	<0.5	10	34	26	2.58
CC19381		0.10	<0.005	0.3	1.58	4	<10	90	<0.5	<2	0.35	<0.5	10	38	29	2.70
CC19382		0.06	<0.005	<0.2	1.27	3	<10	90	<0.5	<2	0.36	<0.5	10	41	22	2.12
CC19383		0.12	<0.005	0.2	1.46	4	<10	80	<0.5	<2	0.27	<0.5	11	49	25	2.38
CC19384		0.12	<0.005	<0.2	1.84	5	<10	70	<0.5	<2	0.19	<0.5	11	55	23	2.82
CC19385		0.16	<0.005	<0.2	1.93	4	<10	70	<0.5	<2	0.19	<0.5	10	55	24	2.85
CC19386		0.18	0.010	<0.2	1.86	4	<10	90	<0.5	<2	0.46	<0.5	9	58	23	2.67
CC19387		0.10	<0.005	<0.2	0.84	2	<10	60	<0.5	<2	0.23	<0.5	4	21	12	1.40
CC19388		0.18	<0.005	0.6	2.32	20	<10	90	<0.5	<2	0.30	0.6	26	59	79	5.62

Comments: NSS is non-sufficient sample.



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
CC19349	10	<1	0.04	10	1.66	1480	1	0.01	26	1380	7	0.11	<2	18	25	
CC19350	10	<1	0.03	10	1.14	552	<1	0.01	36	560	6	0.04	<2	5	13	
CC19351	10	<1	0.05	10	1.06	935	<1	0.01	29	1310	10	0.11	<2	3	21	
CC19352	10	<1	0.04	10	1.07	648	1	0.01	32	720	10	0.05	<2	6	14	
CC19353	10	<1	0.05	10	1.09	918	1	0.01	37	1250	10	0.10	<2	5	24	
CC19354	10	1	0.07	10	1.07	884	1	0.01	32	1010	6	0.09	<2	4	18	
CC19355	10	<1	0.05	10	0.95	739	1	0.01	29	870	7	0.08	<2	4	21	
CC19356	<10	1	0.06	10	0.66	838	<1	0.01	24	1020	25	0.08	<2	3	20	
CC19357	<10	<1	0.08	10	1.02	1215	1	0.02	48	630	100	0.05	2	10	56	
CC19358	10	<1	0.03	10	3.06	1770	<1	0.01	41	440	12	0.04	<2	22	19	
CC19359	10	<1	0.04	10	0.86	622	1	0.01	25	720	7	0.06	<2	3	15	
CC19360	10	<1	0.04	10	1.22	576	<1	0.01	33	740	6	0.04	<2	7	18	
CC19361	10	<1	0.04	10	1.22	742	<1	0.01	32	600	5	0.03	<2	7	13	
CC19362	10	<1	0.04	<10	1.36	1415	<1	0.01	71	590	5	0.02	<2	24	14	
CC19363	10	<1	0.06	10	1.20	817	1	0.01	35	940	8	0.06	<2	6	20	
CC19364	10	<1	0.04	10	1.02	1010	1	0.01	32	1440	7	0.11	<2	4	23	
CC19365	10	<1	0.04	10	1.02	462	<1	0.01	31	580	8	0.04	<2	4	16	
CC19366	10	<1	0.04	10	1.02	455	1	0.01	30	580	6	0.04	<2	4	15	
CC19367	<10	<1	0.04	10	0.84	523	<1	0.01	26	880	6	0.05	<2	4	21	
CC19368	<10	<1	0.04	10	0.39	634	1	0.01	18	900	8	0.09	<2	2	16	
CC19369	10	<1	0.06	10	1.38	1145	1	0.01	37	1170	19	0.08	2	6	22	
CC19370	10	<1	0.05	10	0.79	613	1	0.01	31	900	7	0.08	<2	3	21	
CC19371	10	<1	0.04	10	0.88	816	1	0.02	28	1290	6	0.13	<2	4	24	
CC19372	10	<1	0.04	10	0.98	479	<1	0.01	37	480	5	0.04	<2	3	11	
CC19373	10	<1	0.06	10	1.04	706	1	0.01	38	1120	6	0.09	<2	2	20	
CC19374	10	<1	0.06	10	1.08	513	<1	0.01	42	530	6	0.03	<2	4	15	
CC19375	10	<1	0.07	10	1.07	587	1	0.01	43	540	8	0.03	<2	4	13	
CC19376	<10	<1	0.06	<10	0.60	788	1	0.01	18	1140	6	0.10	2	2	16	
CC19377	10	<1	0.05	10	0.65	590	1	0.02	21	1060	7	0.09	<2	2	12	
CC19378	10	<1	0.04	10	0.82	1200	1	0.01	17	1150	6	0.12	2	2	17	
CC19379	<10	<1	0.02	<10	0.11	115	<1	0.02	2	390	2	0.04	<2	<1	9	
CC19380	<10	<1	0.05	10	0.51	812	1	0.01	19	1150	7	0.11	<2	1	16	
CC19381	10	<1	0.05	10	0.56	823	1	0.01	20	1230	7	0.12	<2	1	17	
CC19382	<10	<1	0.05	10	0.61	598	1	0.01	25	810	7	0.07	<2	1	19	
CC19383	10	<1	0.05	10	0.68	570	<1	0.01	28	800	5	0.07	<2	2	15	
CC19384	10	<1	0.05	10	0.66	788	1	0.01	28	610	7	0.06	<2	2	12	
CC19385	10	<1	0.06	10	0.66	767	1	0.01	29	620	7	0.06	2	2	13	
CC19386	10	<1	0.05	10	0.88	473	1	0.01	31	1000	6	0.09	<2	2	19	
CC19387	<10	<1	0.04	<10	0.32	329	1	0.01	11	790	5	0.07	<2	<1	12	
CC19388	10	<1	0.06	10	1.27	2100	2	0.01	46	1350	68	0.07	<2	13	15	

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
CC19349		0.03	<10	<10	153	<10	60
CC19350		0.12	<10	<10	84	<10	49
CC19351		0.10	<10	<10	85	<10	62
CC19352		0.10	<10	<10	87	<10	54
CC19353		0.08	<10	<10	83	<10	61
CC19354		0.12	<10	<10	87	<10	60
CC19355		0.10	<10	<10	79	<10	54
CC19356		0.04	<10	<10	54	<10	75
CC19357		0.05	<10	<10	86	<10	164
CC19358		0.02	<10	<10	157	<10	68
CC19359		0.10	<10	<10	76	<10	52
CC19360		0.13	<10	<10	94	<10	58
CC19361		0.12	<10	<10	95	<10	58
CC19362		0.05	<10	<10	135	<10	78
CC19363		0.11	<10	<10	92	<10	65
CC19364		0.10	<10	<10	86	<10	79
CC19365		0.11	<10	<10	76	<10	56
CC19366		0.10	<10	<10	75	<10	54
CC19367		0.10	<10	<10	68	<10	56
CC19368		0.07	<10	<10	58	<10	44
CC19369		0.08	<10	<10	111	<10	82
CC19370		0.09	<10	<10	72	<10	56
CC19371		0.08	<10	<10	83	<10	61
CC19372		0.10	<10	<10	65	<10	44
CC19373		0.07	<10	<10	67	<10	57
CC19374		0.11	<10	<10	67	<10	47
CC19375		0.11	<10	<10	69	<10	60
CC19376		0.04	<10	<10	48	<10	42
CC19377		0.05	<10	<10	54	<10	41
CC19378		0.16	<10	<10	116	<10	48
CC19379		0.04	<10	<10	20	<10	10
CC19380		0.05	<10	<10	65	<10	44
CC19381		0.05	<10	<10	66	<10	50
CC19382		0.06	<10	<10	49	<10	45
CC19383		0.07	<10	<10	56	<10	43
CC19384		0.09	<10	<10	66	<10	49
CC19385		0.09	<10	<10	65	<10	51
CC19386		0.06	<10	<10	66	<10	48
CC19387		0.03	<10	<10	36	<10	27
CC19388		0.05	<10	<10	102	<10	108

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
CC19389		0.18	<0.005	0.6	2.43	24	<10	90	<0.5	<2	0.30	0.6	28	63	82	6.03
CC19390		0.18	0.010	0.3	1.96	16	<10	100	0.5	<2	0.57	<0.5	27	53	66	5.20
CC19391		0.10	0.006	0.3	1.77	5	<10	100	<0.5	<2	0.36	<0.5	11	42	33	3.32
CC19392		0.16	0.014	<0.2	1.53	4	<10	80	<0.5	<2	0.24	<0.5	11	47	31	3.10
CC19393		0.16	0.009	<0.2	2.25	4	<10	110	<0.5	<2	0.31	<0.5	15	74	39	3.14
CC19394		0.16	<0.005	0.2	1.53	5	<10	120	<0.5	<2	0.32	<0.5	11	41	31	3.13
CC19395		0.18	<0.005	0.5	1.73	9	<10	100	<0.5	<2	0.35	<0.5	13	34	49	3.69
CC19396		0.14	<0.005	0.2	1.68	4	<10	110	<0.5	<2	0.28	<0.5	10	44	33	2.72
CC19397		0.16	<0.005	<0.2	1.86	6	<10	90	<0.5	<2	0.48	<0.5	16	66	32	3.63
CC19398		0.14	<0.005	<0.2	1.90	7	<10	120	<0.5	<2	0.35	<0.5	14	67	43	3.08
CC19399		0.14	<0.005	<0.2	1.71	5	<10	110	<0.5	<2	0.21	<0.5	9	44	20	2.49
CC19400		0.18	<0.005	<0.2	1.69	5	<10	80	<0.5	<2	0.31	<0.5	10	48	24	2.52
CC19401		0.18	<0.005	<0.2	1.64	4	<10	90	<0.5	<2	0.33	<0.5	11	50	29	2.78
CC19402		0.12	<0.005	<0.2	1.08	2	<10	50	<0.5	<2	0.21	<0.5	4	21	13	1.61
CC19403		0.08	<0.005	0.2	1.45	5	<10	70	<0.5	<2	0.17	<0.5	5	40	17	2.21
CC19404		0.14	<0.005	0.3	2.17	8	<10	180	<0.5	<2	0.49	<0.5	13	60	38	3.15
CC19405		0.22	<0.005	<0.2	2.08	6	<10	70	<0.5	<2	0.24	<0.5	12	64	31	3.17
CC19406		0.24	0.005	1.5	2.35	11	<10	130	0.5	2	0.53	0.5	30	74	107	5.13
CC19407		0.18	NSS	0.4	1.85	7	<10	180	<0.5	2	1.21	0.6	24	55	60	3.47
CC19408		0.18	<0.005	0.5	2.32	10	<10	120	<0.5	<2	0.46	<0.5	21	70	60	4.26
CC19409		0.18	0.005	0.2	1.78	8	<10	100	<0.5	<2	0.33	<0.5	14	53	30	3.16
CC19410		0.16	0.007	0.2	2.16	4	<10	90	<0.5	<2	0.47	<0.5	15	65	53	3.67
CC19411		0.20	<0.005	<0.2	1.82	6	<10	90	<0.5	<2	0.24	<0.5	12	56	35	3.17
CC19412		0.18	<0.005	<0.2	1.66	6	<10	80	<0.5	<2	0.17	<0.5	5	34	16	2.45
CC19413		0.14	<0.005	<0.2	2.07	13	<10	100	<0.5	<2	0.57	<0.5	13	63	46	3.27
CC19414		0.16	<0.005	<0.2	1.91	7	<10	140	<0.5	<2	0.33	<0.5	12	49	43	2.80
CC19415		0.16	0.006	0.4	2.53	19	<10	100	0.5	2	0.41	<0.5	21	64	81	4.60
CC19416		0.18	<0.005	0.2	2.21	16	<10	100	0.5	<2	0.32	<0.5	21	69	52	4.25
CC19417		0.16	<0.005	0.2	1.68	10	<10	110	<0.5	<2	0.42	<0.5	13	56	40	2.85
CC19418		0.18	0.007	0.2	1.77	11	<10	130	<0.5	2	0.41	<0.5	12	55	40	2.80
CC19419		0.12	<0.005	0.2	1.61	9	<10	90	<0.5	<2	0.31	<0.5	13	55	39	2.81
CC19420		0.16	<0.005	<0.2	1.98	8	<10	160	<0.5	<2	0.44	<0.5	13	65	56	3.11
CC19421		0.14	<0.005	<0.2	1.67	17	<10	60	<0.5	<2	0.18	<0.5	12	49	37	3.44
CC19422		0.16	<0.005	0.6	2.04	67	<10	80	0.6	2	1.28	<0.5	52	78	128	7.59
CC19423		0.22	0.006	<0.2	1.69	13	<10	60	<0.5	<2	0.17	<0.5	14	44	30	2.96
CC19424		0.22	<0.005	<0.2	1.58	10	<10	60	<0.5	<2	0.16	<0.5	12	40	25	2.70
CC19425		0.14	NSS	<0.2	2.10	17	<10	90	<0.5	<2	0.84	<0.5	23	52	64	3.74
CC19426		0.14	<0.005	<0.2	2.15	17	<10	80	<0.5	2	0.97	<0.5	20	52	63	3.57
CC19427		0.16	<0.005	<0.2	2.29	22	<10	70	<0.5	<2	0.27	0.6	23	67	70	4.27
CC19428		0.14	<0.005	0.2	3.03	16	<10	90	<0.5	<2	0.40	<0.5	24	87	111	5.00

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
CC19389		10	<1	0.07	10	1.40	2140	2	0.01	52	1360	68	0.06	<2	14	15
CC19390		<10	<1	0.05	10	0.93	1815	1	0.01	41	940	9	0.06	<2	11	23
CC19391		10	<1	0.05	10	0.78	726	1	0.01	23	770	20	0.06	<2	4	19
CC19392		<10	<1	0.05	10	0.83	523	1	0.01	28	510	12	0.04	<2	3	14
CC19393		<10	<1	0.05	10	1.26	596	<1	0.01	47	500	8	0.02	<2	5	13
CC19394		<10	<1	0.06	10	0.71	569	1	0.01	27	750	14	0.04	<2	2	15
CC19395		10	<1	0.06	10	0.75	848	1	0.01	21	980	62	0.07	<2	3	16
CC19396		10	<1	0.06	10	0.78	394	1	0.01	26	740	13	0.04	<2	3	16
CC19397		10	<1	0.08	10	1.10	1790	1	0.01	25	1250	10	0.08	2	5	22
CC19398		<10	<1	0.08	10	1.10	528	1	0.01	64	510	7	0.02	<2	5	18
CC19399		10	<1	0.06	10	0.64	515	<1	0.01	24	610	10	0.05	<2	1	14
CC19400		<10	<1	0.06	10	0.77	425	<1	0.01	31	530	7	0.03	<2	3	15
CC19401		<10	<1	0.07	10	0.85	450	1	0.01	31	690	8	0.03	<2	3	16
CC19402		<10	<1	0.03	10	0.33	134	<1	0.01	11	770	5	0.05	<2	1	12
CC19403		<10	<1	0.04	10	0.45	402	1	0.01	18	680	6	0.07	2	1	13
CC19404		10	<1	0.09	10	0.98	741	1	0.01	33	1050	11	0.07	<2	2	23
CC19405		10	<1	0.05	10	1.20	417	1	0.01	32	570	9	0.03	<2	4	14
CC19406		10	<1	0.07	10	1.62	1705	1	0.01	42	930	80	0.06	2	19	26
CC19407		10	<1	0.08	10	1.15	1490	2	0.01	28	1810	76	0.16	<2	5	50
CC19408		10	<1	0.09	10	1.52	911	2	0.01	37	760	32	0.05	<2	7	20
CC19409		10	<1	0.06	10	0.87	664	1	0.01	26	630	14	0.05	2	3	15
CC19410		10	<1	0.06	10	1.37	509	1	0.01	37	500	13	0.04	<2	6	18
CC19411		10	<1	0.05	10	0.79	651	1	0.01	32	800	8	0.06	<2	2	12
CC19412		10	<1	0.06	10	0.49	266	1	0.01	15	540	30	0.05	2	1	12
CC19413		10	<1	0.07	10	1.15	442	1	0.02	42	810	10	0.04	<2	6	28
CC19414		10	<1	0.06	10	0.91	505	<1	0.02	36	730	8	0.03	<2	4	20
CC19415		10	1	0.07	10	1.32	956	2	0.01	41	1260	32	0.05	2	11	24
CC19416		10	<1	0.06	10	1.20	1060	1	<0.01	38	1160	29	0.07	<2	7	19
CC19417		10	<1	0.08	10	0.98	542	1	0.01	38	760	10	<0.01	<2	6	22
CC19418		10	<1	0.07	10	0.97	470	1	0.01	42	690	10	<0.01	<2	5	20
CC19419		10	<1	0.06	10	0.93	466	1	0.01	41	640	9	<0.01	<2	5	16
CC19420		10	<1	0.09	10	1.16	447	1	0.01	55	790	9	0.02	<2	6	24
CC19421		10	<1	0.04	10	0.73	529	1	<0.01	27	690	18	0.04	<2	4	12
CC19422		10	1	0.04	10	1.35	2960	8	0.01	64	2370	26	0.23	<2	10	36
CC19423		10	<1	0.03	10	0.81	508	1	<0.01	31	500	24	0.03	<2	4	12
CC19424		10	<1	0.03	10	0.72	463	1	<0.01	28	490	12	0.03	<2	3	11
CC19425		10	<1	0.05	10	1.16	1135	1	0.02	28	1400	10	0.09	2	6	34
CC19426		10	<1	0.05	10	1.15	1080	1	0.01	29	1510	10	0.10	<2	5	37
CC19427		10	<1	0.04	10	1.36	962	1	0.01	46	710	20	0.04	<2	7	16
CC19428		10	1	0.05	10	1.82	975	1	0.02	52	1080	13	0.07	<2	11	20

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41					
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC19389		0.05	<10	<10	108	<10	115
CC19390		0.05	<10	<10	89	<10	57
CC19391		0.07	<10	<10	71	<10	53
CC19392		0.08	<10	<10	65	<10	44
CC19393		0.13	<10	<10	75	<10	51
CC19394		0.05	<10	<10	61	<10	46
CC19395		0.05	<10	<10	78	<10	71
CC19396		0.07	<10	<10	64	<10	54
CC19397		0.04	<10	<10	88	<10	53
CC19398		0.13	<10	<10	73	<10	50
CC19399		0.06	<10	<10	57	<10	43
CC19400		0.10	<10	<10	60	<10	48
CC19401		0.10	<10	<10	66	<10	46
CC19402		0.05	<10	<10	42	<10	24
CC19403		0.06	<10	<10	54	<10	37
CC19404		0.06	<10	<10	76	<10	69
CC19405		0.09	<10	<10	87	<10	52
CC19406		0.05	<10	<10	115	<10	84
CC19407		0.04	<10	<10	77	10	65
CC19408		0.09	<10	<10	110	<10	70
CC19409		0.07	<10	<10	77	<10	46
CC19410		0.11	<10	<10	92	<10	64
CC19411		0.07	<10	<10	71	<10	47
CC19412		0.06	<10	<10	51	<10	47
CC19413		0.08	<10	<10	81	<10	69
CC19414		0.07	<10	<10	63	<10	53
CC19415		0.07	<10	<10	106	<10	101
CC19416		0.05	<10	<10	101	<10	79
CC19417		0.09	<10	<10	71	<10	59
CC19418		0.09	<10	<10	69	<10	53
CC19419		0.10	<10	<10	70	<10	49
CC19420		0.10	<10	<10	76	<10	67
CC19421		0.09	<10	<10	87	<10	59
CC19422		0.02	<10	<10	144	<10	92
CC19423		0.07	<10	<10	69	<10	71
CC19424		0.07	<10	<10	61	<10	50
CC19425		0.04	<10	<10	96	<10	72
CC19426		0.04	<10	<10	95	<10	65
CC19427		0.08	<10	<10	106	<10	90
CC19428		0.07	<10	<10	136	<10	108

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
CC19429		0.14	0.005	0.3	2.39	39	<10	70	0.5	<2	0.23	0.5	26	76	106	5.02
CC19430		0.14	0.012	0.2	3.07	32	<10	110	0.5	<2	0.67	0.5	28	99	112	5.52
CC19431		0.22	0.018	0.4	2.09	18	<10	60	0.5	<2	0.45	0.6	20	66	68	4.13
CC19432		0.16	0.006	0.4	1.79	9	<10	120	0.6	<2	1.33	1.3	21	37	48	3.20
CC19433		0.26	0.015	0.6	3.44	112	<10	60	0.6	<2	0.67	1.2	77	292	211	10.40
CC19434		0.18	0.023	0.6	2.70	25	<10	60	<0.5	<2	0.36	<0.5	27	115	89	5.19
CC19435		0.12	0.008	1.0	2.79	34	<10	60	<0.5	2	1.02	<0.5	43	116	160	6.05
CC19436		0.16	<0.005	0.2	2.25	3	<10	90	<0.5	<2	0.69	<0.5	25	87	102	5.01
CC19437		0.16	<0.005	0.3	4.17	4	<10	40	<0.5	<2	1.34	<0.5	32	155	174	6.52
CC19438		0.12	<0.005	0.3	4.31	5	<10	40	<0.5	<2	1.42	0.5	30	157	183	6.65
CC19439		0.14	0.005	0.3	4.10	2	<10	40	<0.5	<2	1.34	0.7	29	152	168	6.33
CC19440		0.16	<0.005	0.2	2.41	11	<10	70	<0.5	<2	0.81	0.6	21	72	81	4.23
CC19441		0.14	0.005	0.3	2.42	12	<10	140	0.6	<2	0.88	1.3	26	38	106	3.69
CC19442		0.14	0.005	0.4	2.29	14	<10	100	0.6	<2	0.77	1.2	30	46	131	3.85
CC19443		0.18	0.011	0.7	2.73	12	<10	90	<0.5	<2	0.63	1.2	35	76	151	5.43
CC19444		0.14	<0.005	<0.2	2.60	19	<10	110	<0.5	<2	0.63	1.1	20	62	64	4.22
CC19445		0.14	<0.005	<0.2	2.14	31	<10	80	<0.5	<2	0.39	0.7	21	73	69	4.37
CC19446		0.18	<0.005	<0.2	3.47	9	<10	480	<0.5	<2	0.49	0.6	26	43	104	5.78
CC19447		0.14	0.007	0.3	1.46	12	<10	100	<0.5	<2	2.23	<0.5	26	22	104	2.30
CC19448		0.16	<0.005	<0.2	2.17	5	<10	110	<0.5	<2	0.33	<0.5	18	60	44	3.90
CC19449		0.08	<0.005	<0.2	0.28	<2	<10	40	<0.5	<2	2.95	0.8	2	6	16	0.41
CC19450		0.22	NSS	<0.2	3.02	6	<10	90	0.7	<2	0.48	0.7	37	49	193	5.03
CC19451		0.12	0.007	<0.2	1.82	11	<10	70	0.5	<2	0.41	<0.5	19	35	96	3.14
CC19452		0.12	<0.005	0.2	1.18	5	<10	90	<0.5	<2	1.65	<0.5	10	27	66	2.03
CC19453		0.08	0.010	0.3	1.23	2	<10	200	<0.5	2	0.69	1.8	24	23	45	2.37
CC19454		0.14	<0.005	0.2	1.70	7	<10	150	<0.5	<2	0.50	0.6	25	53	34	3.38
CC19455		0.08	<0.005	<0.2	1.18	3	<10	120	<0.5	<2	0.50	0.9	19	31	26	2.74
CC19456		0.10	<0.005	<0.2	0.97	5	<10	110	<0.5	<2	0.24	<0.5	6	30	15	2.21
CC19457		0.20	0.006	0.7	2.59	14	<10	90	<0.5	<2	0.49	2.4	28	110	94	5.62
CC19458		0.12	0.014	0.4	2.49	33	<10	110	0.6	2	0.34	1.0	31	65	128	4.97
CC19459		0.18	<0.005	<0.2	1.42	8	<10	70	<0.5	<2	0.28	<0.5	14	54	46	2.73
CC19460		0.14	<0.005	<0.2	1.42	3	<10	90	<0.5	<2	0.26	<0.5	10	50	34	2.43
CC19461		0.26	<0.005	<0.2	1.38	8	<10	100	<0.5	<2	0.49	<0.5	12	61	49	2.86
CC19462		0.18	<0.005	<0.2	1.22	7	<10	100	<0.5	2	0.46	<0.5	13	54	34	2.64
CC19463		0.22	0.005	0.2	1.73	9	<10	120	<0.5	<2	0.39	<0.5	15	59	40	2.95
CC19464		0.26	0.005	<0.2	1.94	15	<10	80	<0.5	2	0.34	<0.5	17	64	61	3.51
CC19465		0.24	0.008	0.2	1.67	11	<10	80	<0.5	<2	0.24	0.5	13	43	53	2.75
CC19466		0.14	0.010	0.2	2.75	23	<10	120	0.5	<2	0.96	1.2	26	75	89	4.98
CC19467		0.20	0.008	0.2	2.48	33	<10	100	0.6	2	0.35	<0.5	28	62	120	4.43
CC19468		0.18	0.011	<0.2	1.34	7	<10	80	<0.5	<2	0.46	<0.5	16	55	36	3.07

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
CC19429		10	<1	0.05	10	1.44	1155	1	0.02	53	1020	37	0.06	2	8	14
CC19430		10	<1	0.07	10	2.10	1105	2	0.02	61	1040	38	0.07	<2	13	29
CC19431		10	1	0.05	10	1.54	1025	1	0.02	45	1110	34	0.06	<2	9	25
CC19432		<10	1	0.05	10	0.89	2140	1	0.01	26	1940	112	0.15	<2	5	52
CC19433		10	2	0.02	10	3.22	3310	6	0.01	283	1460	26	0.16	2	22	25
CC19434		10	1	0.05	10	2.30	1290	1	0.01	52	740	72	0.05	<2	20	18
CC19435		10	<1	0.05	10	2.28	1685	1	0.02	50	1100	78	0.14	<2	18	38
CC19436		10	1	0.06	10	1.49	2030	1	0.02	55	870	10	0.08	<2	15	30
CC19437		10	2	0.10	10	4.17	1050	<1	0.02	59	1210	172	0.13	<2	19	41
CC19438		10	1	0.11	10	4.28	1035	<1	0.02	61	1250	185	0.14	<2	19	42
CC19439		10	2	0.11	10	4.06	933	<1	0.02	58	1200	192	0.12	<2	18	40
CC19440		10	1	0.05	10	1.46	1310	1	0.02	38	1920	22	0.17	<2	10	34
CC19441		10	1	0.06	10	0.95	1745	1	0.01	25	2050	8	0.12	<2	5	46
CC19442		10	<1	0.07	10	1.00	1620	1	0.01	34	1610	11	0.11	<2	6	39
CC19443		10	1	0.06	10	1.75	1305	3	0.01	61	1020	9	0.05	2	11	32
CC19444		<10	1	0.05	10	1.27	1070	3	0.01	38	1240	6	0.07	<2	4	29
CC19445		10	<1	0.05	10	1.14	923	6	0.01	53	1240	14	0.08	<2	4	24
CC19446		10	1	0.17	<10	1.77	1210	4	0.01	33	770	4	0.06	<2	5	32
CC19447		<10	1	0.03	<10	0.53	1070	1	0.02	18	1680	5	0.19	<2	2	102
CC19448		10	1	0.05	10	1.23	1025	1	0.01	31	790	8	0.06	<2	6	20
CC19449		<10	1	0.03	<10	0.10	242	1	0.01	5	910	2	0.22	<2	1	71
CC19450		10	2	0.07	10	1.73	1755	1	<0.01	29	1300	7	0.09	3	12	27
CC19451		10	<1	0.04	10	0.66	717	2	0.01	26	970	18	0.10	3	3	27
CC19452		<10	<1	0.04	10	0.39	633	1	0.01	16	1470	6	0.16	<2	2	66
CC19453		<10	1	0.08	10	0.45	2700	1	0.01	16	1840	6	0.24	3	2	45
CC19454		10	<1	0.04	10	0.86	2140	2	0.01	22	1680	9	0.14	3	4	28
CC19455		10	<1	0.04	10	0.79	1675	1	0.01	17	1400	7	0.17	<2	2	23
CC19456		10	<1	0.04	10	0.27	422	2	<0.01	10	810	7	0.07	<2	1	17
CC19457		10	<1	0.06	10	1.81	1715	5	<0.01	82	1220	9	0.07	2	9	23
CC19458		10	2	0.06	10	1.34	1665	3	<0.01	47	1120	11	0.05	3	12	24
CC19459		<10	1	0.06	10	0.89	470	1	0.01	43	600	4	0.04	<2	3	13
CC19460		10	1	0.06	10	0.69	401	1	0.01	29	1140	6	0.11	2	1	15
CC19461		<10	1	0.07	10	1.06	394	1	0.02	45	620	8	0.03	<2	5	22
CC19462		<10	<1	0.07	10	0.96	441	1	0.01	41	630	9	0.02	<2	5	21
CC19463		10	<1	0.08	10	0.90	695	1	0.01	40	800	9	0.06	2	3	20
CC19464		10	<1	0.05	10	1.28	663	1	0.01	43	570	6	0.03	<2	7	18
CC19465		<10	<1	0.05	10	0.84	575	1	0.01	28	900	6	0.05	<2	5	16
CC19466		10	<1	0.05	10	1.59	1510	3	0.01	49	1430	11	0.11	4	9	45
CC19467		10	<1	0.06	10	1.28	1265	1	<0.01	43	1120	12	0.07	2	9	25
CC19468		<10	<1	0.04	10	1.10	566	1	0.01	41	500	7	0.03	2	6	18

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC19429		0.08	<10	<10	114	<10	89
CC19430		0.09	<10	<10	141	<10	114
CC19431		0.07	<10	<10	94	<10	87
CC19432		0.02	<10	<10	65	<10	79
CC19433		0.02	<10	<10	187	<10	218
CC19434		0.05	<10	<10	141	<10	93
CC19435		0.03	<10	<10	160	<10	98
CC19436		0.06	<10	<10	122	<10	59
CC19437		0.12	<10	<10	236	<10	98
CC19438		0.12	<10	<10	240	<10	100
CC19439		0.11	<10	<10	232	<10	98
CC19440		0.04	<10	<10	119	10	73
CC19441		0.06	<10	<10	91	<10	98
CC19442		0.05	<10	<10	95	<10	101
CC19443		0.09	<10	<10	133	<10	134
CC19444		0.04	<10	<10	106	<10	122
CC19445		0.03	<10	<10	95	<10	106
CC19446		0.21	<10	<10	144	<10	141
CC19447		0.04	<10	<10	51	<10	71
CC19448		0.07	<10	<10	107	<10	62
CC19449		0.01	<10	<10	9	<10	50
CC19450		0.05	<10	<10	114	<10	84
CC19451		0.06	<10	<10	72	<10	56
CC19452		0.04	<10	<10	49	<10	30
CC19453		0.07	<10	<10	74	<10	115
CC19454		0.04	<10	<10	107	<10	56
CC19455		0.03	<10	<10	88	<10	56
CC19456		0.05	<10	<10	69	<10	27
CC19457		0.06	<10	<10	140	<10	169
CC19458		0.07	<10	<10	109	<10	108
CC19459		0.08	<10	<10	63	<10	48
CC19460		0.05	<10	<10	56	<10	39
CC19461		0.11	<10	<10	68	<10	49
CC19462		0.11	<10	<10	62	<10	41
CC19463		0.09	<10	<10	69	<10	53
CC19464		0.11	<10	<10	90	<10	66
CC19465		0.07	<10	<10	70	<10	61
CC19466		0.05	<10	<10	127	<10	111
CC19467		0.06	<10	<10	100	<10	81
CC19468		0.10	<10	<10	77	<10	47

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC19469		0.14	0.085	<0.2	1.77	13	<10	100	<0.5	<2	0.26	<0.5	13	56	36	3.20
CC19470		0.16	0.006	<0.2	2.22	11	<10	90	<0.5	<2	0.59	0.5	20	69	66	4.21
CC19471		0.12	0.010	0.6	3.19	40	<10	120	0.5	2	0.50	0.9	30	112	104	6.69
CC19472		0.14	0.013	0.2	3.31	26	<10	120	0.5	<2	0.43	0.6	28	97	97	6.03
CC19473		0.10	0.009	0.3	3.30	29	<10	90	0.5	2	0.72	0.9	32	132	137	7.02
CC19474		0.22	0.017	0.2	2.84	13	<10	60	<0.5	<2	0.51	0.5	36	67	142	5.45
CC19475		0.18	0.007	0.5	1.94	8	<10	60	<0.5	2	5.85	1.4	24	138	98	6.08
CC19476		0.20	0.013	<0.2	2.45	20	<10	80	<0.5	<2	0.27	1.0	23	93	81	5.01
CC19477		0.14	0.008	<0.2	1.47	18	<10	70	<0.5	<2	0.33	<0.5	13	59	36	3.44
CC19478		0.14	0.012	0.6	2.06	35	<10	90	<0.5	<2	0.52	1.2	36	212	97	5.31
CC19479		0.18	0.023	1.2	1.94	62	<10	150	<0.5	3	0.87	2.2	32	72	141	6.00
CC19480		0.16	0.022	0.9	1.94	75	<10	280	0.5	<2	1.18	3.2	39	62	143	6.37
CC19481		0.14	0.012	0.7	2.24	89	<10	160	<0.5	2	1.24	2.8	37	93	129	6.97
CC19482		0.16	0.112	1.5	1.86	183	<10	120	<0.5	<2	1.18	1.8	43	65	185	7.89
CC19483		0.14	0.049	1.9	2.20	97	<10	90	<0.5	<2	0.59	3.6	40	86	176	8.04
CC19484		0.16	0.047	1.7	2.48	55	<10	80	<0.5	<2	0.70	2.7	38	107	157	7.69
CC19485		0.14	0.010	1.5	3.14	38	<10	110	<0.5	2	1.12	2.9	36	140	155	7.45
CC19486		0.24	0.033	0.5	2.38	27	<10	60	<0.5	<2	0.40	0.6	27	97	75	5.17
CC19487		0.12	0.044	0.8	2.43	60	<10	110	0.5	<2	0.65	<0.5	19	73	73	4.57
CC19488		0.18	0.008	<0.2	2.47	16	<10	60	<0.5	<2	0.46	<0.5	35	68	101	5.50
CC19489		0.24	0.010	<0.2	2.48	21	<10	70	<0.5	<2	0.38	<0.5	25	82	65	4.94
CC19490		0.18	0.069	0.8	2.63	59	<10	110	<0.5	<2	0.83	0.5	22	97	86	5.40
CC19491		0.18	0.005	0.2	2.64	14	<10	120	<0.5	<2	0.73	1.2	21	121	53	4.26
CC19492		0.22	0.005	0.5	3.35	5	<10	90	<0.5	<2	0.76	1.9	28	200	88	5.77
CC19493		0.20	0.012	0.2	4.48	14	<10	150	<0.5	<2	0.38	<0.5	33	123	126	7.68
CC19494		0.24	0.007	0.3	4.07	16	<10	190	<0.5	2	0.68	<0.5	34	189	144	7.36
CC19495		0.22	0.075	0.5	3.41	140	<10	130	0.6	<2	0.76	<0.5	41	131	104	7.06
CC19496		0.18	0.035	0.7	3.02	74	<10	110	0.6	<2	0.48	0.6	33	99	106	6.09
CC19497		0.32	0.072	0.7	2.36	61	<10	100	<0.5	<2	0.59	1.0	31	73	94	5.25
CC19498		0.18	0.031	0.4	1.96	45	<10	100	<0.5	<2	1.18	0.8	24	57	78	4.41
CC19499		0.16	0.016	0.2	2.28	25	<10	70	<0.5	<2	0.19	<0.5	19	85	55	5.13
CC19500		0.26	0.007	0.2	4.20	26	<10	70	0.7	<2	0.70	<0.5	48	65	121	8.72

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
CC19469	10	1	0.05	10	0.95	497	1	<0.01	37	510	8	0.04	<2	4	16	
CC19470	10	<1	0.05	10	1.55	671	2	0.01	44	610	4	0.05	5	8	27	
CC19471	10	1	0.07	10	2.06	1345	3	0.01	68	1560	12	0.11	3	18	27	
CC19472	10	2	0.06	10	2.19	1205	3	0.01	62	840	9	0.04	2	13	26	
CC19473	10	1	0.06	10	2.04	1560	12	0.01	73	1880	9	0.15	2	14	30	
CC19474	10	<1	0.04	10	1.85	1085	2	0.01	47	1030	8	0.05	<2	6	18	
CC19475	10	1	0.05	10	1.42	2320	6	0.01	66	4730	9	0.10	2	12	108	
CC19476	10	1	0.05	10	1.65	1140	4	<0.01	62	1060	6	0.05	<2	13	15	
CC19477	10	<1	0.04	10	0.89	585	3	<0.01	28	930	11	0.08	<2	3	18	
CC19478	10	2	0.05	10	1.68	1180	9	<0.01	186	790	7	0.05	4	13	28	
CC19479	10	<1	0.06	10	1.22	1315	7	<0.01	60	940	20	0.07	8	15	45	
CC19480	<10	1	0.07	20	1.10	2610	6	<0.01	55	1610	11	0.12	7	16	45	
CC19481	<10	<1	0.18	10	1.62	1800	7	<0.01	75	1070	11	0.10	4	19	65	
CC19482	<10	1	0.08	10	1.35	2560	4	<0.01	82	1240	10	0.13	5	16	50	
CC19483	10	1	0.09	20	1.52	1385	7	0.01	110	1320	16	0.08	5	24	36	
CC19484	10	<1	0.06	10	1.96	1735	6	0.01	101	920	17	0.07	6	22	35	
CC19485	10	1	0.08	10	2.40	2280	7	<0.01	91	1220	9	0.10	<2	27	46	
CC19486	10	<1	0.06	10	2.12	862	2	0.01	60	720	9	<0.01	<2	15	14	
CC19487	10	<1	0.05	10	1.48	800	2	0.02	43	1300	13	0.08	<2	11	36	
CC19488	10	<1	0.04	10	2.00	944	1	0.01	41	690	9	0.03	<2	12	16	
CC19489	10	<1	0.05	10	1.94	954	2	0.01	43	930	6	0.04	<2	10	16	
CC19490	10	<1	0.05	10	1.91	832	2	0.02	57	920	15	0.06	2	15	40	
CC19491	10	<1	0.04	10	1.94	1815	1	0.02	52	840	8	0.06	<2	11	37	
CC19492	10	<1	0.07	<10	3.03	1510	1	0.01	70	430	5	0.04	<2	19	32	
CC19493	10	<1	0.26	<10	4.41	1495	<1	0.01	48	440	5	0.01	<2	37	23	
CC19494	10	<1	0.11	10	3.78	1980	<1	0.02	63	740	5	0.03	<2	39	35	
CC19495	10	<1	0.09	10	2.46	2620	1	0.02	82	1230	14	0.08	<2	21	31	
CC19496	10	<1	0.06	10	2.05	2440	1	0.02	61	1380	16	0.07	<2	18	25	
CC19497	10	<1	0.05	10	1.86	1115	2	0.02	50	900	13	0.04	3	13	33	
CC19498	10	<1	0.05	10	1.42	825	2	0.02	40	690	10	0.07	<2	11	51	
CC19499	10	<1	0.05	10	1.63	696	1	0.01	43	930	6	0.08	<2	7	11	
CC19500	20	<1	0.12	10	3.60	1470	1	0.01	41	1040	8	0.03	<2	24	16	

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05063480

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC19469		0.08	<10	<10	79	<10	48
CC19470		0.08	<10	<10	107	<10	72
CC19471		0.05	<10	<10	168	<10	139
CC19472		0.09	<10	<10	160	<10	111
CC19473		0.09	<10	<10	289	<10	197
CC19474		0.20	<10	<10	120	<10	98
CC19475		0.09	<10	<10	156	<10	185
CC19476		0.06	<10	<10	128	<10	105
CC19477		0.05	<10	<10	86	<10	55
CC19478		0.05	<10	<10	112	<10	135
CC19479		0.02	<10	<10	111	<10	156
CC19480		0.02	<10	<10	115	<10	160
CC19481		0.03	<10	<10	119	<10	163
CC19482		0.01	<10	<10	95	10	125
CC19483		0.04	<10	<10	129	<10	237
CC19484		0.05	<10	<10	165	<10	206
CC19485		0.05	<10	<10	234	<10	205
CC19486		0.11	<10	<10	140	<10	89
CC19487		0.03	<10	<10	120	<10	102
CC19488		0.16	<10	<10	151	<10	76
CC19489		0.08	<10	<10	142	<10	85
CC19490		0.04	<10	<10	147	<10	115
CC19491		0.07	<10	<10	189	<10	107
CC19492		0.21	<10	<10	308	<10	137
CC19493		0.12	<10	<10	285	<10	96
CC19494		0.11	<10	<10	276	<10	114
CC19495		0.08	<10	<10	176	<10	89
CC19496		0.05	<10	<10	170	<10	96
CC19497		0.06	<10	<10	146	<10	110
CC19498		0.06	<10	<10	118	<10	88
CC19499		0.07	<10	<10	146	<10	82
CC19500		0.45	<10	<10	303	<10	136

Comments: NSS is non-sufficient sample.



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CERTIFICATE VA05063326

Project: Hartles Joe
P.O. No.:
This report is for 29 Rock samples submitted to our lab in Vancouver, BC, Canada on 2-AUG-2005.
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
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Ag-AA46	Ore grade Ag - aqua regia/AA	AAS
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

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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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CERTIFICATE OF ANALYSIS VA05063326

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
B395837		2.24	>10.0	190.5	>100	0.09	169	<10	10	<0.5	16	0.01	4.2	<1	33	1285
B395838		2.52	0.060		3.8	0.14	11	<10	30	<0.5	<2	2.74	<0.5	<1	18	20
B395839		2.12	0.528		22.4	0.82	5	<10	40	<0.5	<2	1.66	<0.5	23	27	68
B395840		2.10	0.047		2.8	0.26	11	<10	10	<0.5	<2	0.03	<0.5	1	20	655
B395841		3.04	0.175		16.4	1.52	10	<10	<10	<0.5	<2	0.21	0.6	62	55	>10000
B395842		2.24	0.915		1.5	0.75	323	<10	10	<0.5	<2	2.08	1.7	8	55	49
B395843		2.12	0.065		16.2	0.61	20	<10	30	<0.5	34	0.80	2.7	8	34	176
B395844		2.18	0.082		46.5	1.29	38	<10	30	<0.5	95	1.94	13.1	15	8	182
B395845		1.16	0.012		2.0	0.42	23	<10	10	<0.5	<2	0.23	<0.5	2	52	39
B395846		1.82	0.017		31.4	0.95	10	<10	20	<0.5	282	4.36	1.9	27	56	13
B395847		1.68	0.016		57.9	2.24	26	<10	10	<0.5	317	2.69	4.8	41	144	980
B395848		2.08	0.008		1.2	0.50	5	<10	20	<0.5	2	1.33	<0.5	6	47	71
B395849		2.76	<0.005		2.7	0.04	6	<10	10	<0.5	9	0.02	<0.5	2	16	17
B395850		2.68	0.011		2.8	0.11	<2	<10	10	<0.5	9	0.25	<0.5	7	27	13
B395901		2.02	0.010		2.4	0.86	3	<10	20	<0.5	8	3.22	<0.5	23	28	14
B395902		2.08	0.023		>100	0.07	<2	<10	10	<0.5	969	0.33	6.1	3	48	14
B395903		2.46	0.067		76.1	0.46	11	<10	10	<0.5	162	2.08	5.9	10	63	178
B395904		2.42	0.007		0.2	0.30	5	<10	20	<0.5	<2	0.82	<0.5	2	9	15
B395905		2.20	0.760		12.8	0.88	53	<10	<10	<0.5	<2	6.16	1.1	8	42	50
B395906		1.62	<0.005		0.2	0.14	2	<10	10	<0.5	<2	8.57	<0.5	<1	19	8
B395907		2.42	<0.005		0.2	0.86	<2	<10	<10	<0.5	<2	4.58	<0.5	5	39	37
B395908		2.10	0.005		0.2	0.19	13	<10	110	<0.5	<2	2.94	<0.5	13	18	25
B395909		2.22	0.260		13.4	0.12	5	<10	<10	<0.5	7	0.05	3.1	1	55	30
B395910		2.16	>10.0	13.35	10.8	0.10	153	<10	<10	<0.5	<2	0.50	41.8	8	22	33
B395911		2.18	0.029		0.6	1.36	<2	<10	10	<0.5	<2	1.82	0.8	20	60	57
B395912		2.66	0.008		0.2	2.59	5	<10	10	<0.5	<2	0.87	0.6	29	76	383
B395913		3.06	0.009		<0.2	0.99	<2	<10	<10	<0.5	<2	0.23	0.5	63	51	7
B395914		3.32	0.068		<0.2	2.08	5	<10	10	<0.5	<2	0.18	<0.5	37	76	357
B395627		1.08	0.025		3.6	0.79	4	<10	<10	<0.5	<2	0.03	15.2	16	21	1940



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CERTIFICATE OF ANALYSIS VA05063326

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
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
		0.01	10	1	0.01	10	0.01	5	0.01	1	10	2	0.01	2	1	
B395837		5.41	<10	3	0.03	<10	0.01	31	17	0.04	3	50	>10000	0.79	1350	<1
B395838		12.75	<10	<1	0.01	<10	0.11	212	<1	0.01	4	310	83	0.03	2	<1
B395839		2.04	10	1	0.01	<10	0.77	328	<1	0.10	17	240	301	0.18	8	7
B395840		4.92	<10	1	<0.01	<10	0.05	39	4	<0.01	3	100	26	0.03	<2	2
B395841		10.55	10	1	0.02	<10	1.61	439	4	0.02	17	210	87	7.38	5	6
B395842		2.23	<10	<1	0.01	<10	0.83	255	5	0.01	26	120	202	0.34	2	4
B395843		3.08	<10	<1	0.07	<10	0.38	399	14	0.01	1	270	489	0.44	3	5
B395844		4.90	10	2	0.03	<10	0.98	571	10	0.02	3	640	2240	1.08	<2	13
B395845		3.13	<10	1	0.01	<10	0.29	171	1	<0.01	7	120	43	0.90	2	1
B395846		8.63	<10	1	0.09	<10	1.38	778	143	0.02	37	180	878	8.16	<2	8
B395847		6.73	10	2	0.03	<10	2.99	910	1	0.02	53	300	787	2.35	<2	19
B395848		3.93	<10	1	0.06	<10	0.53	537	71	<0.01	11	120	19	1.12	2	4
B395849		3.07	<10	1	0.02	<10	0.02	39	3	<0.01	3	120	56	1.34	<2	<1
B395850		5.02	<10	<1	0.04	<10	0.08	114	2	<0.01	11	130	78	3.32	<2	<1
B395901		8.42	<10	<1	0.08	<10	0.95	652	<1	<0.01	29	280	92	7.06	<2	4
B395902		0.77	<10	<1	0.03	<10	0.07	101	83	0.01	3	30	2520	0.21	<2	<1
B395903		2.05	<10	<1	0.04	<10	0.70	475	2	0.01	16	80	6630	0.65	<2	5
B395904		1.53	<10	1	0.03	<10	0.18	318	<1	0.06	4	120	16	0.26	<2	5
B395905		2.84	<10	<1	0.01	<10	1.24	826	<1	<0.01	17	70	620	1.66	3	3
B395906		4.13	<10	2	<0.01	<10	0.12	284	1	<0.01	3	120	9	0.01	<2	1
B395907		4.07	<10	<1	<0.01	<10	0.76	203	<1	<0.01	9	30	10	0.53	<2	1
B395908		2.55	<10	1	0.01	<10	0.11	148	1	0.02	10	120	6	1.24	<2	2
B395909		0.54	<10	<1	0.01	<10	0.10	46	1	<0.01	5	10	>10000	0.24	9	<1
B395910		3.34	<10	<1	0.01	<10	0.10	91	<1	<0.01	9	40	913	2.78	<2	<1
B395911		3.64	10	1	0.06	<10	1.14	332	12	0.03	20	310	59	0.62	<2	17
B395912		9.37	10	<1	0.02	<10	2.25	1085	3	0.01	35	370	11	4.68	<2	14
B395913		19.2	10	1	<0.01	<10	0.89	294	1	<0.01	18	80	10	>10.0	<2	3
B395914		18.1	10	1	<0.01	<10	2.43	592	1	<0.01	26	100	7	>10.0	<2	4
B395627		7.71	10	<1	<0.01	<10	0.84	117	68	0.02	9	160	19	5.35	<2	10



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CERTIFICATE OF ANALYSIS VA05063326

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46	Cu-AA46	Pb-AA46	Ag-GRA21
		Sr	Ti	Ti	U	V	W	Zn	Ag	Cu	Pb	Ag
		ppm 1	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 1	% 0.01	% 0.01	ppm 5
B395837		39	<0.01	<10	<10	3	<10	629	>1500		5.58	5780
B395838		20	0.01	<10	<10	39	<10	9				
B395839		11	0.28	<10	<10	91	<10	37				
B395840		2	0.03	<10	<10	32	<10	53				
B395841		3	0.25	10	<10	102	<10	84		1.81		
B395842		40	0.02	<10	<10	59	<10	194				
B395843		9	0.05	<10	<10	41	<10	80				
B395844		30	0.12	<10	<10	128	<10	304				
B395845		5	<0.01	<10	<10	31	<10	19				
B395846		66	<0.01	<10	<10	38	<10	44				
B395847		44	0.01	10	<10	132	<10	136				
B395848		29	<0.01	10	<10	46	40	34				
B395849		8	<0.01	<10	<10	5	10	4				
B395850		7	<0.01	<10	<10	11	120	4				
B395901		62	<0.01	<10	<10	46	<10	37				
B395902		7	<0.01	<10	<10	3	<10	3	117			
B395903		37	<0.01	<10	<10	32	<10	42				
B395904		17	<0.01	<10	<10	3	<10	19				
B395905		95	0.02	<10	<10	36	<10	76				
B395906		332	<0.01	10	<10	11	<10	3				
B395907		9	0.03	<10	<10	23	<10	14				
B395908		11	0.11	<10	<10	33	<10	6				
B395909		2	<0.01	<10	<10	7	<10	75		1.60		
B395910		6	0.01	<10	<10	4	<10	2370				
B395911		17	0.24	<10	<10	175	<10	102				
B395912		14	0.34	<10	<10	195	<10	134				
B395913		13	0.09	10	<10	42	<10	23				
B395914		5	0.11	<10	<10	91	<10	71				
B395627		4	0.04	<10	<10	110	<10	1800				



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Finalized Date: 10-AUG-2005
Account: RCM

CERTIFICATE VA05062479

Project: Hartles Joe

P.O. No.:

This report is for 19 Rock samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2005.

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
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
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Signature: 



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Project: Hartles Joe



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Total Pages: 2 (A - C)
Finalized Date: 10-AUG-2005
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CERTIFICATE OF ANALYSIS VA05062479

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd WL kg	Au ppm	Pt ppm	Pd ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm
B395824		1.60	0.006	<0.005	<0.001		0.2	1.29	2	<10	10	<0.5	<2	1.30	<0.5	39
B395825		2.72	0.003	<0.005	<0.001		<0.2	0.10	<2	<10	10	<0.5	<2	2.14	<0.5	1
B395826		1.86	0.004	<0.005	<0.001		0.8	1.04	2	<10	10	<0.5	<2	0.07	3.4	10
B395827		2.80	0.007	<0.005	<0.001		1.3	1.57	4	<10	<10	<0.5	<2	5.15	10.4	14
B395828		1.80	0.018	<0.005	<0.001		4.8	0.87	8	<10	20	<0.5	<2	0.09	1.4	39
B395829		2.90	0.873	<0.005	<0.001		88.8	0.14	522	<10	<10	<0.5	<2	0.95	0.9	2
B395830		2.38	0.800	<0.005	<0.001		>100	0.04	453	<10	<10	<0.5	<2	3.37	0.7	1
B395831		2.98	>10.0	<0.005	0.003	55.3	>100	0.07	143	<10	<10	<0.5	<2	0.33	12.0	1
B395832		1.86	>10.0	0.038	<0.001	18.50	>100	0.05	213	<10	10	<0.5	<2	0.03	7.2	2
B395833		2.48	5.32	<0.005	<0.001		50.0	0.87	5310	<10	20	<0.5	<2	3.95	0.5	15
B395834		1.76	0.992	<0.005	<0.001		9.4	0.02	25	<10	10	<0.5	<2	0.44	<0.5	1
B395835		1.94	0.071	<0.005	<0.001		4.2	0.29	15	<10	10	<0.5	<2	1.28	<0.5	2
B395836		1.70	0.089	<0.005	<0.001		1.2	0.03	13	<10	10	<0.5	<2	0.19	<0.5	2
P396836		1.00	1.500	<0.005	<0.001		41.1	0.66	<2	<10	10	<0.5	<2	0.21	7.9	4
P396837		1.08	4.22	<0.005	<0.001		55.0	0.12	69	<10	<10	<0.5	<2	0.11	23.5	2
P396838		0.80	0.948	<0.005	<0.001		30.4	0.16	30	<10	<10	<0.5	<2	0.50	15.6	3
P396839		2.80	9.15	<0.005	<0.001		>100	0.68	33	<10	10	<0.5	<2	3.78	114.5	9
P396840		1.54	0.832	<0.005	<0.001		19.8	1.22	30	<10	<10	<0.5	<2	5.38	43.8	6
P396841		0.86	>10.0	<0.005	0.002	149.0	53.8	0.24	2	<10	10	<0.5	4	0.22	7.6	3



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CERTIFICATE OF ANALYSIS VA05062479

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
		Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S
		ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%
		1	1	0.01	10	1	0.01	10	0.01	5	1	0.01	10	2	0.01	
B395824		26	85	5.35	10	<1	0.09	<10	0.87	362	<1	0.17	27	740	<2	1.93
B395825		22	10	3.69	<10	<1	0.01	<10	0.06	102	1	0.01	<1	90	<2	0.13
B395826		73	688	2.35	10	<1	0.02	<10	0.98	252	<1	0.02	14	160	<2	0.01
B395827		44	1295	5.45	10	<1	0.01	<10	1.68	635	3	0.03	14	180	<2	2.81
B395828		42	>10000	7.19	<10	<1	0.03	<10	0.52	241	1	0.01	20	110	4	0.02
B395829		18	256	0.88	<10	<1	0.03	<10	0.29	176	<1	0.01	3	10	365	0.12
B395830		34	239	1.50	<10	1	0.01	<10	1.25	545	<1	0.01	3	30	11	0.06
B395831		16	872	1.33	<10	<1	0.04	<10	0.13	101	<1	0.01	5	10	5470	0.43
B395832		30	1130	3.29	<10	1	0.06	<10	0.01	19	1	<0.01	17	10	7280	2.62
B395833		34	110	3.30	<10	<1	0.19	<10	1.36	548	2	0.01	26	80	168	1.18
B395834		31	46	3.67	<10	<1	<0.01	<10	0.02	194	1	<0.01	<1	80	29	0.03
B395835		18	7	1.35	<10	<1	0.01	<10	0.28	197	<1	0.01	2	50	7	0.17
B395836		35	4	0.62	<10	<1	0.01	<10	0.01	271	<1	0.01	2	10	7	<0.01
P396836		34	2520	5.09	<10	<1	0.03	<10	0.57	162	6	0.01	5	60	>10000	0.47
P396837		41	132	1.73	<10	1	0.03	<10	0.11	40	1	0.01	3	30	2520	1.22
P396838		13	160	2.14	<10	1	0.02	<10	0.13	95	1	0.01	5	10	3570	1.22
P396839		41	545	2.53	<10	<1	0.05	<10	0.72	586	4	0.01	11	80	3770	1.82
P396840		21	284	2.59	<10	<1	0.03	<10	1.50	797	1	0.01	10	60	2380	0.88
P396841		34	504	0.84	<10	1	0.03	<10	0.09	89	20	<0.01	3	<10	6900	0.20



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Total Pages: 2 (A - C)
Finalized Date: 10-AUG-2005
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CERTIFICATE OF ANALYSIS VA05062479

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Ag-GRA21
		Sb	Sc	Sr	Tl	Tl	U	V	W	Zn	Cu	Pb	Ag
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		2	1	1	0.01	10	10	1	10	2	0.01	0.01	5
B395824		<2	7	8	0.25	<10	<10	144	<10	27			
B395825		<2	<1	24	<0.01	<10	<10	10	<10	<2			
B395826		<2	8	6	0.01	<10	<10	70	<10	106			
B395827		<2	9	14	0.16	<10	<10	90	<10	627			
B395828		<2	9	11	0.01	<10	<10	97	<10	234	1.91		
B395829		23	1	39	0.01	<10	<10	8	<10	70			
B395830		80	2	120	<0.01	<10	<10	13	<10	81			211
B395831		1590	1	22	<0.01	<10	<10	5	<10	619			5010
B395832		364	1	10	<0.01	<10	<10	6	<10	648			2310
B395833		17	8	192	<0.01	<10	<10	45	<10	104			
B395834		4	<1	3	<0.01	<10	<10	11	<10	5			
B395835		3	2	10	<0.01	<10	<10	19	<10	6			
B395836		<2	1	1	<0.01	<10	<10	3	<10	8			
P396836		9	4	8	<0.01	<10	<10	63	<10	1245		1.90	
P396837		10	1	2	0.01	<10	<10	9	<10	1760			
P396838		7	1	6	0.01	<10	<10	10	<10	983			
P396839		6	4	63	0.05	<10	<10	35	160	7600			317
P396840		2	4	72	0.05	<10	<10	53	90	2560			
P396841		3	<1	3	<0.01	<10	<10	6	<10	417			



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Finalized Date: 8-AUG-2005
Account: RCM

CERTIFICATE VA05062478

Project: Hartles Joe

P.O. No.:

This report is for 34 Soil samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2005.

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
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

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Total Pages: 2 (A - C)
Finalized Date: 8-AUG-2005
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CERTIFICATE OF ANALYSIS VA05062478

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Pt ppm	Pd ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm
CC12586		0.10	0.006	<0.005	<0.001	0.2	1.66	9	<10	160	<0.5	<2	1.02	<0.5	12	57
CC12587		0.10	0.005	<0.005	<0.001	<0.2	1.36	8	<10	120	<0.5	<2	0.72	<0.5	9	40
CC12588		0.20	0.004	<0.005	<0.001	<0.2	1.23	8	<10	70	<0.5	<2	0.50	<0.5	11	61
CC12589		0.08	0.008	<0.005	<0.001	0.2	1.56	22	<10	80	<0.5	<2	0.79	<0.5	12	53
CC12590		0.12	0.002	<0.005	<0.001	0.2	1.30	7	<10	100	<0.5	<2	1.37	0.5	8	50
CC12591		0.16	<0.001	<0.005	0.005	0.2	1.22	9	<10	90	<0.5	<2	1.62	<0.5	10	53
CC12592		0.10	0.005	<0.005	0.005	0.4	1.28	19	<10	140	<0.5	<2	2.08	0.8	9	40
CC12593		0.16	0.004	<0.005	0.003	0.2	1.92	15	<10	90	<0.5	<2	0.99	<0.5	13	48
CC12594		0.10	0.004	<0.005	0.001	<0.2	1.60	11	<10	70	<0.5	<2	1.28	<0.5	10	45
CC12595		0.12	0.005	<0.005	0.003	0.3	1.99	11	<10	110	<0.5	<2	1.22	<0.5	12	53
CC12596		0.08	0.007	0.009	<0.001	<0.2	1.25	10	<10	80	<0.5	<2	1.52	<0.5	9	45
CC12597		0.14	0.004	<0.005	0.002	0.3	1.99	10	<10	150	<0.5	<2	1.07	<0.5	14	49
CC12598		0.08	0.004	0.010	0.002	0.4	1.66	11	<10	100	<0.5	<2	0.86	0.7	12	50
CC12599		0.14	0.004	<0.005	0.001	0.3	2.00	11	<10	90	<0.5	<2	0.79	<0.5	12	46
CC12600		0.24	0.014	<0.005	0.001	<0.2	1.92	5	<10	110	<0.5	<2	1.06	<0.5	12	52
CC12601		0.20	0.002	<0.005	0.003	0.3	1.82	7	<10	110	<0.5	<2	0.84	<0.5	10	48
CC12602		0.16	0.006	<0.005	0.003	0.4	1.99	5	<10	120	<0.5	<2	0.85	<0.5	12	51
CC12603		0.28	0.005	<0.005	0.002	0.2	1.48	3	<10	90	<0.5	<2	0.82	<0.5	9	37
CC12604		0.20	0.003	<0.005	0.001	<0.2	1.78	8	<10	90	<0.5	<2	0.62	<0.5	13	50
CC12605		0.24	0.006	<0.005	0.001	<0.2	1.30	7	<10	70	<0.5	<2	0.53	<0.5	12	45
CC12606		0.28	0.007	<0.005	<0.001	0.2	1.40	18	<10	50	<0.5	<2	0.60	<0.5	12	48
CC12607		0.28	0.006	<0.005	0.001	0.2	2.17	14	<10	110	<0.5	<2	0.47	<0.5	14	64
CC12608		0.24	0.003	<0.005	0.002	0.3	1.90	10	<10	150	<0.5	<2	1.11	<0.5	12	47
CC12609		0.24	0.004	<0.005	0.001	0.3	2.18	9	<10	160	<0.5	<2	1.17	<0.5	13	60
CC12610		0.40	0.007	<0.005	0.003	0.3	1.97	6	<10	120	<0.5	<2	0.69	<0.5	15	51
CC12611		0.22	0.003	0.005	0.001	0.2	1.36	12	<10	60	<0.5	<2	0.61	<0.5	11	47
CC12612		0.22	0.001	<0.005	0.001	0.3	1.44	7	<10	70	<0.5	<2	0.74	<0.5	11	53
CC12613		0.30	0.007	<0.005	0.002	0.2	1.44	12	<10	60	<0.5	<2	0.75	<0.5	11	48
CC12614		0.26	0.036	<0.005	0.001	<0.2	1.14	13	<10	60	<0.5	<2	0.84	<0.5	8	53
CC12615		0.18	0.007	<0.005	0.001	<0.2	1.59	11	<10	60	<0.5	<2	0.73	<0.5	11	47
CC12616		0.26	0.008	<0.005	<0.001	0.2	1.47	9	<10	110	<0.5	<2	2.38	<0.5	11	45
CC12617		0.36	0.031	<0.005	0.001	<0.2	1.45	14	<10	80	<0.5	<2	0.60	<0.5	13	49
CC12618		0.14	0.021	<0.005	0.003	<0.2	1.59	8	<10	110	<0.5	<2	1.12	<0.5	13	49
CC12619		0.24	0.012	<0.005	0.002	0.2	1.62	10	<10	130	<0.5	<2	1.71	0.6	13	46



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Total Pages: 2 (A - C)
Finalized Date: 8-AUG-2005
Account: RCM

CERTIFICATE OF ANALYSIS VA05062478

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	
		Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
		ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
		1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
CC12586		55	2.64	10	<1	0.11	10	0.95	488	2	0.02	35	1060	22	0.07	<2
CC12587		42	2.27	<10	<1	0.08	10	0.79	346	<1	0.01	27	870	14	0.03	<2
CC12588		37	2.57	<10	<1	0.06	10	1.21	378	1	<0.01	53	620	7	0.02	<2
CC12589		51	3.07	<10	<1	0.05	10	1.10	425	1	<0.01	34	830	9	0.05	<2
CC12590		28	2.12	<10	<1	0.05	10	0.77	885	<1	<0.01	32	910	7	0.12	<2
CC12591		34	2.21	<10	<1	0.05	10	0.83	689	<1	<0.01	49	990	8	0.25	<2
CC12592		48	2.75	<10	<1	0.06	10	0.76	1840	<1	<0.01	21	1170	8	0.14	2
CC12593		55	2.96	10	<1	0.06	10	1.08	360	<1	<0.01	29	850	11	0.08	<2
CC12594		40	2.82	<10	<1	0.05	10	0.92	294	<1	<0.01	23	900	9	0.10	<2
CC12595		51	2.78	10	<1	0.07	10	1.01	841	<1	<0.01	28	1060	10	0.06	<2
CC12596		44	1.90	<10	<1	0.07	10	0.73	437	1	<0.01	22	1290	7	0.15	<2
CC12597		62	3.19	10	<1	0.06	10	1.01	781	<1	0.01	29	870	8	0.11	<2
CC12598		46	2.44	<10	<1	0.09	10	0.98	507	1	<0.01	27	1170	9	0.13	2
CC12599		73	2.98	<10	<1	0.06	10	1.05	588	<1	<0.01	26	730	7	0.04	<2
CC12600		50	2.58	10	<1	0.05	10	0.97	509	<1	<0.01	30	960	7	0.07	<2
CC12601		47	2.37	<10	<1	0.06	10	0.91	390	<1	<0.01	30	880	6	0.06	<2
CC12602		47	2.66	<10	<1	0.05	10	1.02	490	<1	<0.01	32	840	7	0.05	2
CC12603		31	1.98	<10	<1	0.04	10	0.71	494	<1	<0.01	24	900	5	0.07	<2
CC12604		44	2.90	10	<1	0.09	10	1.06	495	4	0.01	29	830	8	0.04	<2
CC12605		32	2.40	<10	<1	0.07	10	0.96	422	<1	0.01	30	680	6	0.02	<2
CC12606		30	2.62	<10	<1	0.06	10	1.05	333	<1	<0.01	27	680	7	0.04	<2
CC12607		43	3.31	10	<1	0.06	10	1.22	530	1	<0.01	41	690	8	0.04	<2
CC12608		53	3.67	<10	<1	0.06	10	0.99	1575	<1	<0.01	29	870	7	0.06	<2
CC12609		49	3.17	10	<1	0.06	10	1.05	1380	1	<0.01	39	990	9	0.08	<2
CC12610		55	2.91	10	<1	0.04	10	1.06	353	1	<0.01	32	770	7	0.07	<2
CC12611		35	2.70	<10	<1	0.05	10	1.04	655	<1	<0.01	38	660	6	0.03	<2
CC12612		39	2.42	<10	<1	0.05	10	0.89	339	1	<0.01	30	860	7	0.04	<2
CC12613		39	2.56	<10	<1	0.05	10	0.86	518	1	<0.01	32	880	7	0.04	<2
CC12614		31	2.04	<10	<1	0.05	10	0.92	269	<1	<0.01	46	820	5	0.07	<2
CC12615		50	2.83	<10	<1	0.07	10	1.02	471	1	<0.01	35	790	7	0.05	<2
CC12616		39	2.87	<10	<1	0.06	10	0.97	654	1	<0.01	30	880	7	0.05	<2
CC12617		42	2.71	<10	<1	0.05	10	1.00	292	<1	0.02	37	710	6	0.03	<2
CC12618		44	2.77	<10	<1	0.11	10	1.00	492	<1	0.03	34	880	8	0.04	<2
CC12619		53	2.91	<10	<1	0.09	10	1.00	453	<1	0.03	34	980	8	0.04	<2



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Total Pages: 2 (A - C)
Finalized Date: 8-AUG-2005
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CERTIFICATE OF ANALYSIS VA05062478

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sc	Sr	Ti	Ti	U	V	W	Zn
		ppm 1	ppm 1	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC12586		5	54	0.09	<10	<10	70	10	70
CC12587		4	40	0.07	<10	10	55	<10	55
CC12588		5	23	0.09	<10	<10	60	<10	48
CC12589		5	37	0.07	<10	<10	77	<10	67
CC12590		3	69	0.05	<10	<10	42	<10	102
CC12591		3	76	0.05	<10	<10	39	<10	78
CC12592		3	102	0.04	<10	<10	48	<10	81
CC12593		5	46	0.09	<10	<10	70	<10	92
CC12594		4	112	0.07	<10	<10	56	<10	78
CC12595		5	78	0.07	<10	<10	67	<10	73
CC12596		3	87	0.04	<10	10	48	<10	61
CC12597		7	49	0.10	<10	<10	69	<10	79
CC12598		4	40	0.04	<10	<10	69	<10	59
CC12599		5	32	0.09	<10	<10	77	<10	69
CC12600		5	45	0.08	<10	<10	61	<10	71
CC12601		5	42	0.08	<10	<10	56	<10	60
CC12602		5	43	0.09	<10	<10	66	<10	68
CC12603		3	46	0.06	<10	<10	47	<10	60
CC12604		5	32	0.10	<10	<10	76	<10	57
CC12605		5	28	0.11	<10	<10	62	<10	43
CC12606		5	27	0.08	<10	<10	71	<10	44
CC12607		7	23	0.08	<10	<10	87	<10	68
CC12608		6	52	0.10	<10	<10	69	<10	77
CC12609		6	66	0.07	<10	<10	67	<10	112
CC12610		6	31	0.11	<10	<10	77	<10	69
CC12611		4	37	0.10	<10	<10	64	<10	52
CC12612		5	45	0.09	<10	<10	59	<10	55
CC12613		4	44	0.09	<10	<10	62	<10	55
CC12614		3	38	0.07	<10	10	54	<10	42
CC12615		5	40	0.10	<10	10	69	<10	55
CC12616		4	70	0.08	<10	<10	58	<10	72
CC12617		5	30	0.08	<10	<10	66	<10	56
CC12618		5	53	0.09	<10	<10	62	<10	64
CC12619		5	69	0.09	<10	<10	56	<10	74



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CERTIFICATE VA05058236

Project: Hartles Joe
P.O. No.:
This report is for 263 Soil samples submitted to our lab in Vancouver, BC, Canada on 2-AUG-2005.
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
SCR-41	Screen to -180um and save both
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
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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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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Total Pages: 8 (A - C)
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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	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 WL	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC19001		0.18	<0.005	0.3	2.07	9	<10	100	<0.5	<2	0.49	<0.5	25	77	62	3.82
CC19002		0.22	<0.005	<0.2	4.04	<2	<10	70	<0.5	<2	0.59	<0.5	31	202	77	5.40
CC19003		0.18	<0.005	0.3	2.69	6	<10	100	0.5	<2	0.83	<0.5	22	62	83	5.13
CC19004		0.12	<0.005	0.2	2.25	4	<10	80	<0.5	<2	0.30	<0.5	17	60	49	3.37
CC19005		0.14	<0.005	<0.2	2.34	2	<10	80	<0.5	<2	0.53	<0.5	21	63	45	3.89
CC19006		0.18	<0.005	<0.2	1.84	6	<10	70	<0.5	<2	0.25	<0.5	14	57	33	3.24
CC19007		0.18	<0.005	0.2	2.06	6	<10	70	<0.5	<2	0.66	<0.5	21	55	68	3.30
CC19008		0.18	<0.005	<0.2	2.01	6	<10	70	<0.5	<2	0.32	<0.5	16	53	37	3.36
CC19009		0.16	<0.005	0.2	2.00	3	<10	80	<0.5	<2	0.57	<0.5	16	48	37	3.11
CC19011		0.12	0.010	0.4	1.30	33	<10	40	<0.5	<2	0.66	<0.5	16	40	55	2.55
CC19012		0.20	0.513	1.0	3.10	361	<10	60	<0.5	2	0.54	0.6	47	117	170	6.36
CC19013		0.14	0.048	0.7	2.75	114	<10	50	<0.5	<2	0.57	1.4	31	137	142	5.30
CC19014		0.20	0.039	0.9	2.55	80	<10	50	<0.5	<2	0.55	0.5	28	92	108	4.97
CC19015		0.18	0.039	0.4	2.58	30	<10	80	<0.5	<2	0.41	0.5	28	91	96	4.94
CC19016		0.14	0.095	1.3	2.49	156	<10	70	<0.5	<2	1.21	1.3	34	98	158	4.89
CC19017		0.14	0.020	0.5	2.51	40	<10	130	0.6	<2	0.48	0.5	21	60	100	4.28
CC19018		0.14	0.006	0.2	1.62	26	<10	210	0.8	<2	0.83	<0.5	15	35	74	3.56
CC19019		0.10	0.008	1.0	1.44	30	<10	160	0.7	<2	1.68	1.0	15	40	81	3.58
CC19020		0.18	0.021	0.7	1.46	20	<10	170	0.5	<2	1.42	0.9	12	41	75	3.10
CC19021		0.12	0.017	0.5	1.78	18	<10	130	0.8	<2	0.78	0.5	13	30	79	3.36
CC19022		0.16	NSS	0.3	0.65	9	<10	50	<0.5	<2	1.09	<0.5	5	9	35	1.91
CC19023		0.14	0.018	0.9	1.50	23	<10	110	0.8	<2	1.46	0.7	17	33	108	3.45
CC19024		0.18	0.015	0.8	1.28	35	<10	150	0.7	2	0.78	0.7	19	30	120	3.64
CC19025		0.12	0.008	1.4	1.32	27	<10	140	0.7	<2	1.53	1.9	13	32	77	3.04
CC19026		0.14	NSS	0.9	0.97	26	<10	230	0.6	<2	2.27	1.0	12	25	70	2.56
CC19027		0.14	<0.005	0.9	0.96	25	<10	220	0.6	<2	2.38	0.5	13	22	80	2.64
CC19028		0.18	NSS	0.8	1.32	35	<10	240	0.7	2	0.76	0.7	17	25	111	4.18
CC19029		0.08	0.009	0.6	3.08	46	<10	110	0.5	<2	0.74	0.6	35	46	188	5.66
CC19030		0.20	0.227	0.9	2.25	58	<10	90	0.5	2	0.40	1.0	32	62	130	5.13
CC19031		0.16	<0.005	<0.2	1.46	6	<10	100	<0.5	<2	0.34	<0.5	7	37	28	2.33
CC19032		0.18	0.019	<0.2	1.35	8	<10	90	<0.5	<2	0.61	<0.5	10	43	31	2.45
CC19033		0.16	0.008	<0.2	1.58	9	<10	90	<0.5	<2	0.78	0.5	11	45	34	2.69
CC19034		0.10	<0.005	0.3	0.95	4	<10	100	<0.5	<2	2.41	0.6	4	16	32	1.14
CC19035		0.12	0.016	0.3	1.10	5	<10	130	<0.5	<2	2.82	0.8	6	23	37	1.46
CC19036		0.16	0.005	0.4	1.73	8	<10	120	<0.5	<2	0.95	0.5	10	46	35	2.54
CC19037		0.20	<0.005	0.6	1.90	10	<10	140	0.6	<2	0.67	0.6	11	42	58	3.04
CC19038		0.18	<0.005	<0.2	1.60	178	<10	70	<0.5	<2	0.20	0.5	9	45	26	2.85
CC19039		0.18	<0.005	0.3	1.49	11	<10	130	<0.5	<2	0.36	<0.5	16	53	30	2.92
CC19040		0.16	0.009	0.4	1.30	6	<10	120	<0.5	2	0.53	0.8	10	47	28	2.63
CC19041		0.20	0.007	0.2	1.82	16	<10	140	<0.5	<2	0.52	<0.5	14	66	47	3.30

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
CC19001	10	<1	0.04	10	1.09	951	<1	0.02	44	910	8	0.06	<2	7	24	
CC19002	10	<1	0.02	10	3.03	1340	<1	0.01	84	660	4	0.04	<2	20	15	
CC19003	10	<1	0.05	10	1.52	1615	<1	0.02	34	1450	12	0.11	<2	19	26	
CC19004	10	<1	0.04	10	1.17	590	<1	0.02	37	590	5	0.05	<2	5	13	
CC19005	10	<1	0.04	10	1.38	969	<1	0.02	34	1140	8	0.11	<2	4	20	
CC19006	10	<1	0.04	10	0.95	607	<1	0.02	30	630	11	0.05	<2	5	13	
CC19007	10	<1	0.05	10	1.02	837	<1	0.02	36	990	8	0.08	<2	4	20	
CC19008	10	<1	0.06	10	0.98	702	<1	0.02	32	680	7	0.06	<2	4	15	
CC19009	10	<1	0.05	10	0.92	723	<1	0.02	28	810	7	0.08	<2	4	20	
CC19011	<10	<1	0.03	<10	0.70	599	<1	0.03	30	810	4	0.10	<2	3	17	
CC19012	10	<1	0.06	10	2.21	1605	<1	0.02	118	960	10	0.05	<2	14	19	
CC19013	10	<1	0.05	10	2.06	1345	3	0.02	79	1080	10	0.07	<2	12	24	
CC19014	10	<1	0.04	10	1.91	946	1	0.02	71	740	9	0.04	<2	11	17	
CC19015	10	<1	0.05	10	1.89	1080	1	0.02	73	840	7	0.04	<2	13	17	
CC19016	10	<1	0.05	10	1.58	1555	1	0.02	78	1320	13	0.12	<2	10	38	
CC19017	10	<1	0.06	20	1.24	859	1	0.02	48	1130	16	0.04	<2	11	31	
CC19018	<10	<1	0.06	20	0.68	734	2	0.02	36	1570	14	0.09	<2	5	78	
CC19019	<10	<1	0.06	20	0.69	526	4	0.02	42	2000	17	0.12	3	4	94	
CC19020	<10	<1	0.05	20	0.91	465	2	0.02	36	1700	9	0.09	<2	5	89	
CC19021	<10	<1	0.04	20	0.59	728	2	0.02	22	2110	19	0.17	<2	3	57	
CC19022	<10	<1	0.02	10	0.23	299	1	0.03	9	790	4	0.11	<2	1	89	
CC19023	<10	<1	0.05	20	0.81	761	1	0.02	34	1290	21	0.11	<2	5	138	
CC19024	<10	<1	0.05	20	0.71	596	2	0.02	41	1140	15	0.06	2	5	76	
CC19025	<10	<1	0.06	20	0.64	619	2	0.03	57	2680	17	0.11	2	4	101	
CC19026	<10	<1	0.05	20	0.43	706	3	0.02	37	2080	15	0.18	2	2	142	
CC19027	<10	<1	0.05	20	0.39	656	3	0.02	34	1480	12	0.16	<2	2	178	
CC19028	<10	<1	0.06	20	0.59	767	2	0.03	38	1390	16	0.08	<2	5	82	
CC19029	10	<1	0.05	10	1.70	1710	2	0.02	30	1060	9	0.08	<2	17	43	
CC19030	<10	<1	0.06	10	1.47	1130	7	0.02	46	730	51	0.04	2	14	21	
CC19031	<10	<1	0.04	10	0.60	346	<1	0.02	21	730	6	0.08	<2	1	21	
CC19032	<10	<1	0.05	10	0.83	426	<1	0.03	39	520	8	0.03	<2	4	24	
CC19033	<10	<1	0.06	10	0.91	450	<1	0.04	35	590	8	0.04	<2	3	27	
CC19034	<10	<1	0.03	10	0.31	223	<1	0.03	14	1260	4	0.17	<2	1	60	
CC19035	<10	<1	0.04	10	0.42	286	<1	0.03	20	1500	5	0.21	<2	1	69	
CC19036	<10	<1	0.06	10	0.84	418	<1	0.02	36	940	7	0.06	<2	3	33	
CC19037	10	<1	0.07	10	0.91	462	1	0.02	43	1280	10	0.07	<2	4	50	
CC19038	10	<1	0.04	10	0.59	379	1	0.02	20	790	7	0.07	<2	1	16	
CC19039	10	<1	0.06	10	0.72	1120	<1	0.02	26	890	8	0.06	<2	2	25	
CC19040	<10	<1	0.07	10	0.63	872	1	0.02	24	950	6	0.10	<2	1	27	
CC19041	<10	<1	0.07	10	1.18	604	<1	0.03	50	550	9	0.04	<2	6	25	

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41					ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC19001		0.08	<10	<10	92	<10	65
CC19002		0.04	<10	<10	142	<10	67
CC19003		0.05	<10	<10	144	<10	82
CC19004		0.12	<10	<10	87	<10	55
CC19005		0.13	<10	<10	100	<10	68
CC19006		0.09	<10	<10	81	<10	51
CC19007		0.09	<10	<10	79	<10	58
CC19008		0.12	<10	<10	81	<10	55
CC19009		0.09	<10	<10	75	<10	53
CC19011		0.06	<10	<10	63	<10	36
CC19012		0.09	<10	<10	131	<10	106
CC19013		0.06	<10	<10	169	<10	150
CC19014		0.10	<10	<10	121	<10	79
CC19015		0.09	<10	<10	126	<10	80
CC19016		0.04	<10	<10	130	<10	118
CC19017		0.06	<10	<10	96	<10	102
CC19018		0.02	<10	<10	53	<10	110
CC19019		0.02	<10	<10	45	<10	152
CC19020		0.03	<10	<10	54	<10	108
CC19021		0.02	<10	<10	52	<10	86
CC19022		0.05	<10	<10	43	<10	53
CC19023		0.03	<10	<10	49	<10	102
CC19024		0.03	<10	<10	49	<10	126
CC19025		0.02	<10	<10	41	<10	204
CC19026		0.01	<10	<10	33	<10	142
CC19027		0.01	<10	<10	30	<10	100
CC19028		0.02	<10	<10	43	<10	124
CC19029		0.05	<10	<10	150	<10	101
CC19030		0.05	<10	<10	121	<10	138
CC19031		0.04	<10	<10	52	<10	44
CC19032		0.08	<10	<10	55	<10	48
CC19033		0.08	<10	<10	62	<10	57
CC19034		0.02	<10	<10	26	<10	32
CC19035		0.02	<10	<10	33	<10	45
CC19036		0.07	<10	<10	58	<10	61
CC19037		0.05	<10	<10	63	<10	90
CC19038		0.04	<10	<10	70	<10	55
CC19039		0.07	<10	<10	76	<10	51
CC19040		0.06	<10	<10	66	<10	63
CC19041		0.10	<10	<10	82	<10	53

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
CC19042		0.12	0.024	<0.2	1.72	10	<10	110	<0.5	<2	0.33	<0.5	10	54	35	2.86
CC19043		0.14	0.007	<0.2	1.12	3	<10	50	<0.5	<2	0.19	<0.5	5	24	20	1.73
CC19044		0.22	0.028	0.3	2.09	16	<10	90	<0.5	<2	0.32	<0.5	14	40	73	3.47
CC19045		0.12	0.013	0.2	1.94	9	<10	60	<0.5	<2	0.25	<0.5	10	34	44	3.16
CC19046		0.18	0.017	0.5	2.37	25	<10	170	<0.5	<2	0.62	<0.5	16	57	97	3.97
CC19047		0.20	0.039	1.1	2.51	41	<10	180	<0.5	<2	0.54	<0.5	17	51	110	4.24
CC19048		0.16	0.020	0.8	2.01	31	<10	160	<0.5	<2	0.56	<0.5	13	50	77	3.23
CC19049		0.18	0.010	0.2	1.35	9	<10	130	<0.5	<2	0.66	<0.5	8	45	40	2.41
CC19050		0.24	0.006	<0.2	1.22	9	<10	90	<0.5	<2	0.43	<0.5	9	49	45	2.48
CC19051		0.20	0.012	0.3	1.86	13	<10	100	<0.5	<2	0.34	<0.5	14	49	58	3.14
CC19052		0.18	0.011	0.4	2.56	19	<10	120	<0.5	<2	0.42	0.6	20	78	87	4.25
CC19053		0.20	0.072	0.5	2.01	61	<10	90	<0.5	<2	0.42	<0.5	14	39	100	3.42
CC19054		0.14	<0.005	0.2	0.61	<2	<10	30	<0.5	<2	0.14	<0.5	4	7	11	1.12
CC19055		0.16	0.005	0.2	1.66	10	<10	120	<0.5	<2	0.45	<0.5	14	51	40	2.97
CC19056		0.20	0.023	0.2	1.27	7	<10	70	<0.5	<2	0.30	<0.5	9	45	26	2.68
CC19057		0.18	0.008	0.3	1.80	6	<10	70	<0.5	<2	0.20	<0.5	8	31	42	2.81
CC19058		0.18	0.005	<0.2	2.04	21	<10	90	<0.5	<2	0.32	0.5	15	59	53	3.64
CC19059		0.14	0.012	0.2	1.49	18	<10	50	<0.5	<2	0.13	<0.5	6	27	28	1.96
CC19060		0.16	<0.005	<0.2	1.18	5	<10	40	<0.5	<2	0.11	<0.5	4	24	17	1.65
CC19061		0.18	0.005	0.2	1.76	8	<10	140	<0.5	<2	0.43	0.9	13	54	40	3.19
CC19062		0.16	0.010	0.5	1.46	21	<10	130	<0.5	<2	0.87	0.8	14	47	66	3.46
CC19063		0.20	0.042	0.7	1.62	25	<10	80	<0.5	<2	0.60	0.7	16	60	63	3.78
CC19064		0.20	0.012	0.2	2.12	17	<10	100	<0.5	<2	0.31	<0.5	13	52	58	3.25
CC19065		0.20	0.008	0.2	2.04	16	<10	100	<0.5	<2	0.29	<0.5	13	53	45	3.18
CC19066		0.20	<0.005	0.2	2.00	10	<10	130	<0.5	<2	0.40	<0.5	13	51	37	3.08
CC19067		0.18	<0.005	0.3	1.40	6	<10	50	<0.5	<2	0.19	<0.5	6	19	27	1.91
CC19068		0.16	<0.005	0.4	1.12	8	<10	40	<0.5	<2	0.26	<0.5	4	14	21	1.20
CC19069		0.22	0.012	0.2	2.23	20	<10	130	<0.5	<2	0.45	<0.5	17	68	61	3.83
CC19070		0.18	0.012	0.2	2.38	16	<10	130	<0.5	<2	0.26	<0.5	15	58	61	3.46
CC19071		0.18	0.013	0.3	2.10	12	<10	80	<0.5	<2	0.27	<0.5	16	64	51	3.37
CC19072		0.22	0.009	0.2	2.53	15	<10	120	0.5	<2	0.35	0.5	17	53	84	4.03
CC19073		0.16	0.006	0.3	1.70	7	<10	90	<0.5	<2	0.25	<0.5	10	40	38	2.79
CC19074		0.16	0.017	0.2	2.24	20	<10	110	<0.5	<2	0.59	<0.5	17	39	73	3.99
CC19075		0.12	<0.005	0.2	0.48	<2	<10	40	<0.5	<2	0.14	<0.5	2	5	8	0.90
CC19076		0.20	0.012	0.3	2.09	18	<10	100	<0.5	<2	0.48	<0.5	17	56	94	3.92
CC19077		0.14	0.007	<0.2	0.72	3	<10	30	<0.5	<2	0.19	<0.5	3	10	17	1.10
CC19078		0.20	0.055	0.5	2.07	13	<10	90	<0.5	<2	1.01	1.2	20	61	53	3.76
CC19079		0.10	0.009	0.5	1.54	20	<10	110	<0.5	<2	0.47	<0.5	11	36	50	2.64
CC19080		0.16	0.005	<0.2	2.04	13	<10	100	<0.5	<2	0.30	<0.5	15	53	47	3.22
CC19081		0.24	0.005	0.3	1.87	9	<10	100	<0.5	<2	0.28	<0.5	13	49	33	3.00

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
CC19042		10	<1	0.05	10	0.84	623	<1	0.02	31	920	6	0.08	<2	2	20
CC19043		<10	<1	0.03	<10	0.38	315	<1	0.02	11	790	4	0.08	<2	1	13
CC19044		<10	<1	0.06	10	0.94	727	<1	0.02	28	760	7	0.03	<2	5	17
CC19045		<10	<1	0.05	10	0.65	445	<1	0.02	19	560	5	0.04	<2	3	16
CC19046		<10	<1	0.08	10	1.24	819	<1	0.02	42	730	9	0.04	<2	8	30
CC19047		10	<1	0.07	10	1.18	946	<1	0.02	34	750	11	0.04	<2	7	27
CC19048		<10	<1	0.06	10	0.95	677	<1	0.02	37	700	8	0.04	<2	4	26
CC19049		<10	<1	0.04	10	0.68	329	<1	0.02	26	1180	6	0.08	<2	2	26
CC19050		<10	<1	0.06	10	0.84	422	<1	0.02	40	660	5	0.02	<2	5	22
CC19051		<10	<1	0.05	10	1.02	629	<1	0.02	33	640	13	0.03	<2	5	19
CC19052		10	<1	0.09	10	1.58	941	<1	0.02	55	730	11	0.04	<2	7	23
CC19053		10	<1	0.06	10	0.96	660	<1	0.02	29	710	7	0.03	<2	6	20
CC19054		<10	<1	0.03	<10	0.13	289	<1	0.03	4	660	2	0.06	<2	<1	10
CC19055		<10	<1	0.06	10	0.80	778	<1	0.02	27	950	8	0.06	<2	3	25
CC19056		10	<1	0.05	10	0.67	454	<1	0.02	21	730	7	0.06	<2	2	22
CC19057		10	<1	0.04	10	0.56	366	<1	0.02	16	600	5	0.05	<2	2	14
CC19058		10	<1	0.05	10	1.14	603	1	0.02	37	870	8	0.05	<2	5	17
CC19059		<10	<1	0.04	10	0.45	309	<1	0.02	12	760	6	0.06	<2	1	11
CC19060		<10	<1	0.04	10	0.38	266	<1	0.02	11	610	5	0.06	<2	1	9
CC19061		10	<1	0.09	10	0.88	898	<1	0.02	26	1210	9	0.11	<2	1	26
CC19062		<10	<1	0.06	10	0.87	498	2	0.02	37	1360	8	0.04	<2	7	66
CC19063		10	<1	0.05	10	1.08	628	2	0.02	36	910	8	0.03	<2	9	31
CC19064		10	<1	0.05	10	1.04	650	<1	0.02	31	900	8	0.05	<2	4	19
CC19065		<10	<1	0.07	10	1.03	550	<1	0.02	35	550	8	0.03	<2	5	18
CC19066		10	<1	0.06	10	0.92	892	<1	0.02	29	780	8	0.06	<2	3	25
CC19067		<10	<1	0.03	10	0.37	269	<1	0.02	10	830	3	0.07	<2	1	11
CC19068		<10	<1	0.03	<10	0.28	126	<1	0.03	7	720	3	0.07	<2	1	15
CC19069		10	<1	0.07	10	1.46	836	<1	0.03	48	750	9	0.04	<2	8	23
CC19070		10	<1	0.08	10	1.10	754	<1	0.02	38	730	9	0.05	<2	5	17
CC19071		10	<1	0.06	10	1.23	651	<1	0.02	41	810	9	0.06	<2	5	15
CC19072		10	<1	0.09	10	1.22	1115	<1	0.02	36	790	8	0.04	<2	9	20
CC19073		10	<1	0.06	10	0.73	576	<1	0.02	22	620	7	0.05	<2	2	17
CC19074		10	<1	0.06	10	1.07	940	<1	0.02	24	970	7	0.07	<2	5	26
CC19075		<10	<1	0.02	<10	0.11	122	<1	0.03	2	500	2	0.05	<2	<1	12
CC19076		10	<1	0.08	10	1.26	841	<1	0.02	39	820	7	0.02	<2	9	24
CC19077		<10	<1	0.03	<10	0.22	180	<1	0.02	5	720	2	0.07	<2	<1	11
CC19078		<10	<1	0.04	10	1.00	675	2	0.02	51	1040	8	0.08	<2	3	54
CC19079		10	<1	0.05	10	0.55	814	<1	0.02	19	1380	8	0.13	<2	3	24
CC19080		10	<1	0.06	10	1.07	655	<1	0.02	37	650	7	0.04	<2	5	17
CC19081		10	<1	0.05	10	0.96	628	<1	0.02	32	680	8	0.05	<2	4	16

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
CC19042		0.05	<10	<10	72	<10	53
CC19043		0.04	<10	<10	45	<10	31
CC19044		0.10	<10	<10	84	<10	59
CC19045		0.11	<10	<10	79	<10	43
CC19046		0.11	<10	<10	97	<10	68
CC19047		0.08	<10	<10	103	<10	70
CC19048		0.08	<10	<10	78	<10	58
CC19049		0.04	<10	<10	60	<10	35
CC19050		0.10	<10	<10	60	<10	41
CC19051		0.08	<10	<10	75	<10	57
CC19052		0.11	<10	<10	110	<10	85
CC19053		0.09	<10	<10	80	<10	60
CC19054		0.04	<10	<10	32	<10	19
CC19055		0.06	<10	<10	71	<10	47
CC19056		0.08	<10	<10	70	<10	40
CC19057		0.06	<10	<10	69	<10	40
CC19058		0.06	<10	<10	93	<10	76
CC19059		0.05	<10	<10	51	<10	41
CC19060		0.04	<10	<10	44	<10	36
CC19061		0.04	<10	<10	78	<10	63
CC19062		0.04	<10	<10	81	<10	91
CC19063		0.07	<10	<10	97	<10	77
CC19064		0.07	<10	<10	80	<10	67
CC19065		0.09	<10	<10	77	<10	56
CC19066		0.07	<10	<10	75	<10	61
CC19067		0.06	<10	<10	49	<10	36
CC19068		0.03	<10	<10	28	<10	21
CC19069		0.11	<10	<10	98	<10	84
CC19070		0.09	<10	<10	83	<10	67
CC19071		0.09	<10	<10	85	<10	59
CC19072		0.10	<10	<10	99	<10	76
CC19073		0.06	<10	<10	67	<10	43
CC19074		0.09	<10	<10	98	<10	80
CC19075		0.03	<10	<10	24	<10	13
CC19076		0.14	<10	<10	98	<10	77
CC19077		0.03	<10	<10	29	<10	19
CC19078		0.05	<10	<10	78	<10	132
CC19079		0.04	<10	<10	69	<10	42
CC19080		0.08	<10	<10	81	<10	53
CC19081		0.07	<10	<10	76	<10	47

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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC19082		0.24	0.320	0.5	2.59	150	<10	60	<0.5	<2	0.36	0.5	26	62	76	5.76
CC19083		0.14	0.013	0.6	1.48	42	<10	170	<0.5	<2	0.94	1.0	16	54	67	4.32
CC19084		0.14	0.012	0.7	1.78	51	<10	140	0.5	<2	0.85	2.3	17	48	74	4.29
CC19085		0.18	0.008	0.4	1.75	12	<10	140	<0.5	2	1.51	0.8	13	63	106	2.76
CC19086		0.22	0.008	0.3	1.92	15	<10	130	<0.5	2	0.40	<0.5	15	50	51	3.36
CC19087		0.16	0.013	0.4	2.19	26	<10	110	<0.5	<2	1.07	0.5	20	73	74	4.28
CC19088		0.16	<0.005	0.2	3.24	14	<10	90	<0.5	<2	0.46	0.5	26	186	49	4.91
CC19089		0.24	0.059	1.5	0.56	176	<10	30	<0.5	<2	3.56	3.7	24	21	104	5.16
CC19090		0.16	0.029	2.1	2.45	50	<10	240	0.6	4	0.57	14.0	54	126	297	7.94
CC19091		0.28	0.014	0.8	2.05	35	<10	100	<0.5	2	0.58	0.9	19	76	89	4.60
CC19092		0.18	0.007	0.2	2.79	15	<10	130	<0.5	<2	0.39	<0.5	20	80	55	4.46
CC19093		0.18	0.007	0.4	2.27	11	<10	100	<0.5	<2	0.32	<0.5	14	50	52	3.33
CC19094		0.18	0.005	<0.2	2.04	7	<10	120	<0.5	<2	0.34	<0.5	13	55	34	3.47
CC19095		0.20	<0.005	0.2	2.35	12	<10	90	<0.5	<2	0.24	<0.5	13	60	38	3.25
CC19096		0.18	0.031	0.2	2.14	19	<10	100	<0.5	<2	0.31	<0.5	11	56	47	3.24
CC19097		0.18	0.010	0.2	2.38	20	<10	110	<0.5	<2	0.37	<0.5	17	72	45	3.79
CC19098		0.20	0.007	0.3	2.04	14	<10	90	<0.5	<2	0.22	0.5	13	50	36	3.10
CC19099		0.18	0.006	<0.2	2.93	24	<10	90	<0.5	<2	0.41	<0.5	25	105	65	5.09
CC19100		0.16	0.010	0.3	2.37	27	<10	120	<0.5	<2	0.36	0.7	19	72	70	4.50
CC19101		0.12	0.014	0.7	2.09	49	<10	170	0.5	<2	0.94	0.7	15	55	87	4.13
CC19102		0.18	0.014	0.3	1.74	43	<10	120	<0.5	2	0.72	<0.5	14	36	58	3.54
CC19103		0.18	0.006	0.2	1.76	27	<10	130	<0.5	<2	0.54	<0.5	13	31	52	3.34
CC19104		0.20	0.013	0.2	2.02	16	<10	100	<0.5	2	0.61	<0.5	17	37	80	4.20
CC19105		0.14	0.011	0.6	2.01	28	<10	140	<0.5	<2	0.65	<0.5	16	47	69	3.75
CC19106		0.22	0.039	0.4	2.19	71	<10	180	<0.5	2	0.27	<0.5	26	46	75	5.49
CC19107		0.20	0.058	3.0	3.25	81	<10	70	<0.5	<2	0.80	<0.5	30	269	95	5.98
CC19108		0.24	0.066	5.0	3.97	97	<10	50	<0.5	<2	0.24	<0.5	33	262	97	6.62
CC19109		0.20	0.013	1.9	3.10	19	<10	60	<0.5	<2	0.51	<0.5	39	200	148	6.27
CC19110		0.18	0.010	1.8	3.31	16	<10	90	<0.5	<2	0.95	1.1	33	198	118	5.80
CC19111		0.10	0.010	0.8	1.51	38	<10	110	<0.5	<2	1.73	0.7	18	58	60	3.07
CC19112		0.18	0.010	1.1	2.03	16	<10	140	<0.5	<2	0.52	<0.5	14	36	47	3.95
CC19113		0.20	0.021	0.8	1.70	25	<10	190	<0.5	<2	0.43	<0.5	15	26	43	3.70
CC19114		0.20	0.144	1.0	2.11	22	<10	80	<0.5	<2	0.56	<0.5	16	45	66	3.86
CC19115		0.16	0.011	0.8	1.56	13	<10	90	<0.5	<2	0.64	<0.5	11	43	55	3.06
CC19116		0.22	0.042	0.9	1.80	22	<10	120	<0.5	<2	0.56	<0.5	12	43	61	3.42
CC19117		0.16	0.012	2.1	1.27	69	<10	140	0.5	<2	0.74	1.4	25	64	92	6.07
CC19118		0.20	0.078	2.5	0.86	286	<10	110	<0.5	<2	2.72	1.9	27	37	97	5.24
CC19119		0.20	0.011	1.2	1.96	31	<10	130	<0.5	<2	0.39	<0.5	18	73	59	4.43
CC19120		0.22	0.022	0.9	1.64	25	<10	180	0.7	<2	0.48	<0.5	14	44	39	4.06
CC19121		0.24	0.036	1.6	2.82	60	<10	110	0.6	<2	0.13	1.2	30	92	106	5.86

Comments: NSS is non-sufficient sample.



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Project: Hartles Joe

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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
CC19082		10	<1	0.06	10	1.75	1510	<1	0.02	49	960	8	0.03	3	15	14
CC19083		<10	<1	0.05	10	0.62	809	3	0.02	45	1200	8	0.09	2	10	40
CC19084		<10	<1	0.06	20	0.78	822	17	0.02	60	1340	12	0.09	<2	8	32
CC19085		<10	<1	0.05	10	0.81	986	<1	0.02	26	1360	7	0.15	<2	6	72
CC19086		10	<1	0.06	10	0.98	722	<1	0.02	30	710	11	0.05	<2	6	25
CC19087		10	<1	0.06	10	1.46	1010	<1	0.02	43	830	6	0.09	3	10	45
CC19088		10	<1	0.05	10	2.69	1170	<1	0.02	60	810	5	0.06	<2	13	29
CC19089		<10	<1	0.06	10	0.33	946	17	0.01	89	1080	10	0.04	16	7	108
CC19090		10	<1	0.04	10	1.48	1375	31	0.03	128	810	56	0.05	3	32	31
CC19091		10	<1	0.06	10	1.39	803	2	0.02	44	880	10	0.03	<2	13	28
CC19092		10	<1	0.08	10	1.79	866	<1	0.02	49	720	10	0.04	<2	8	21
CC19093		10	<1	0.05	10	1.05	698	<1	0.02	29	630	8	0.05	<2	3	19
CC19094		10	<1	0.06	10	1.14	799	<1	0.02	31	930	7	0.07	<2	3	21
CC19095		10	<1	0.06	10	1.13	678	<1	0.02	33	700	8	0.06	<2	3	15
CC19096		10	<1	0.05	10	1.11	480	<1	0.02	27	810	7	0.06	<2	3	17
CC19097		10	<1	0.07	10	1.28	745	<1	0.02	38	920	11	0.06	<2	4	21
CC19098		10	<1	0.06	10	0.81	749	<1	0.02	26	970	7	0.09	<2	1	16
CC19099		10	<1	0.07	10	2.35	1065	<1	0.02	68	760	12	0.03	<2	11	17
CC19100		10	<1	0.06	10	1.48	962	1	0.02	45	750	11	0.05	<2	10	21
CC19101		<10	<1	0.06	20	0.85	797	2	0.02	39	1360	9	0.11	<2	9	47
CC19102		<10	<1	0.06	10	0.79	809	<1	0.02	23	990	7	0.08	<2	8	31
CC19103		<10	<1	0.06	10	0.81	606	<1	0.02	20	630	6	0.04	2	8	21
CC19104		10	<1	0.06	10	1.05	852	<1	0.02	21	840	7	0.05	<2	13	22
CC19105		<10	<1	0.07	10	0.96	963	<1	0.02	28	1040	9	0.08	<2	7	32
CC19106		10	<1	0.05	10	0.95	1605	1	0.02	22	920	7	0.06	<2	8	19
CC19107		10	<1	0.08	10	3.02	1495	<1	0.01	86	640	9	0.03	<2	24	33
CC19108		10	<1	0.12	<10	4.60	1495	<1	<0.01	90	370	9	<0.01	<2	30	13
CC19109		10	<1	0.07	10	3.04	1470	<1	0.01	98	320	8	<0.01	<2	24	27
CC19110		10	<1	0.08	10	3.04	1790	1	0.01	85	790	11	0.05	<2	21	50
CC19111		<10	<1	0.04	10	0.78	1475	1	0.01	31	1480	9	0.16	2	4	96
CC19112		10	<1	0.07	10	0.80	988	<1	0.01	22	1060	11	0.03	<2	6	21
CC19113		<10	<1	0.06	10	0.86	700	<1	0.01	17	560	9	0.01	<2	9	18
CC19114		10	<1	0.05	10	1.08	813	<1	0.01	27	650	5	0.02	<2	7	20
CC19115		<10	<1	0.05	10	0.79	680	<1	0.01	23	890	8	0.04	<2	6	30
CC19116		<10	<1	0.05	10	0.72	742	<1	0.01	26	1140	14	0.04	<2	6	29
CC19117		<10	<1	0.05	10	0.65	1160	5	<0.01	74	900	9	0.04	3	13	30
CC19118		<10	<1	0.06	10	0.48	1210	7	<0.01	72	740	30	0.07	13	8	99
CC19119		<10	<1	0.05	10	1.04	1330	1	0.01	45	910	8	0.02	<2	8	23
CC19120		<10	<1	0.07	20	0.73	1130	2	0.01	29	790	10	0.02	<2	8	26
CC19121		10	<1	0.06	10	1.62	1565	4	<0.01	72	740	18	<0.01	3	11	11

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC19082		0.11	<10	<10	146	<10	92
CC19083		0.02	<10	<10	87	<10	110
CC19084		0.02	<10	<10	101	<10	231
CC19085		0.04	<10	<10	77	<10	64
CC19086		0.06	<10	<10	81	<10	56
CC19087		0.05	<10	<10	104	<10	74
CC19088		0.05	<10	<10	158	<10	73
CC19089		<0.01	<10	<10	45	<10	278
CC19090		0.07	<10	<10	524	<10	1095
CC19091		0.05	<10	<10	123	<10	102
CC19092		0.11	<10	<10	118	<10	80
CC19093		0.08	<10	<10	83	<10	57
CC19094		0.06	<10	<10	89	<10	56
CC19095		0.07	<10	<10	83	<10	64
CC19096		0.06	<10	<10	86	<10	58
CC19097		0.07	<10	<10	93	<10	73
CC19098		0.04	<10	<10	75	<10	66
CC19099		0.10	<10	<10	141	<10	91
CC19100		0.07	<10	<10	116	<10	89
CC19101		0.03	<10	<10	88	<10	96
CC19102		0.04	<10	<10	82	<10	60
CC19103		0.04	<10	<10	76	<10	52
CC19104		0.06	<10	<10	100	<10	67
CC19105		0.05	<10	<10	87	<10	70
CC19106		0.03	<10	<10	121	<10	74
CC19107		0.10	<10	<10	194	<10	98
CC19108		0.07	<10	<10	238	<10	102
CC19109		0.13	<10	<10	193	<10	89
CC19110		0.11	<10	<10	236	<10	127
CC19111		0.02	<10	<10	100	<10	78
CC19112		0.03	<10	<10	82	<10	69
CC19113		0.03	<10	<10	73	<10	59
CC19114		0.05	<10	<10	95	<10	71
CC19115		0.04	<10	<10	77	<10	51
CC19116		0.03	<10	<10	76	<10	68
CC19117		0.01	<10	<10	102	<10	173
CC19118		0.01	<10	<10	52	<10	196
CC19119		0.03	<10	<10	104	<10	102
CC19120		0.02	<10	<10	80	<10	72
CC19121		0.03	<10	<10	114	<10	154

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
CC19122		0.24	0.085	1.4	2.52	68	<10	150	0.5	<2	0.20	<0.5	24	73	73	5.20
CC19123		0.18	0.030	0.7	1.88	35	<10	70	<0.5	<2	0.21	<0.5	12	36	38	3.15
CC19124		0.20	0.021	2.1	2.71	18	<10	80	<0.5	<2	0.27	<0.5	38	90	96	5.65
CC19125		0.16	0.011	1.2	2.63	31	<10	60	<0.5	<2	0.25	<0.5	35	98	88	4.69
CC19126		0.20	0.005	1.5	3.85	8	<10	30	<0.5	<2	0.46	<0.5	33	268	80	5.71
CC19127		0.26	0.009	0.8	2.15	8	<10	90	<0.5	<2	0.34	<0.5	21	88	79	3.80
CC19128		0.18	0.011	0.7	1.68	12	<10	90	<0.5	<2	0.25	<0.5	13	53	30	3.09
CC19129		0.14	0.015	0.5	1.27	130	<10	90	<0.5	<2	0.30	<0.5	8	31	47	2.47
CC19130		0.18	0.005	2.1	1.86	16	<10	80	<0.5	<2	0.55	<0.5	26	11	91	7.81
CC19131		0.18	0.006	1.2	2.45	14	<10	110	<0.5	<2	0.50	<0.5	18	30	87	4.59
CC19132		0.14	0.005	0.7	1.72	7	<10	120	<0.5	<2	0.35	<0.5	11	34	25	3.56
CC19133		0.18	0.013	1.1	1.39	12	<10	240	0.5	<2	1.12	<0.5	17	30	91	3.82
CC19134		0.16	0.011	0.5	0.62	15	<10	130	<0.5	<2	2.73	1.2	6	33	30	1.44
CC19135		0.14	0.007	0.9	0.92	23	<10	240	0.7	<2	2.80	1.5	8	45	31	2.25
CC19136		0.14	0.005	<0.2	0.88	6	<10	100	<0.5	<2	3.05	<0.5	6	23	16	1.51
CC19137		0.14	0.074	0.5	1.46	9	<10	150	<0.5	<2	0.72	<0.5	9	39	28	2.39
CC19138		0.26	0.006	0.4	1.38	6	<10	80	<0.5	<2	0.23	<0.5	9	42	22	2.55
CC19139		0.22	<0.005	0.4	1.26	8	<10	70	<0.5	<2	0.18	<0.5	6	25	13	2.63
CC19140		0.16	0.006	0.4	1.28	7	<10	70	<0.5	<2	0.22	<0.5	8	33	24	2.43
CC19141		0.14	<0.005	<0.2	0.62	3	<10	70	<0.5	<2	0.17	<0.5	3	12	12	1.44
CC19142		0.14	0.005	0.4	1.72	7	<10	90	<0.5	<2	0.68	<0.5	12	47	31	2.90
CC19143		0.16	0.006	<0.2	1.92	7	<10	170	<0.5	<2	0.93	0.5	12	51	36	2.89
CC19144		0.14	0.005	<0.2	1.72	8	<10	110	<0.5	2	0.22	0.6	10	48	26	2.74
CC19145		0.10	0.017	1.2	3.93	18	<10	60	<0.5	<2	0.50	0.5	48	224	104	8.27
CC19146		0.16	<0.005	0.2	1.76	10	<10	140	<0.5	2	1.54	0.7	9	43	37	2.48
CC19147		0.16	0.007	0.3	1.76	18	<10	110	<0.5	<2	0.81	0.8	15	56	58	3.46
CC19148		0.20	0.008	0.3	1.60	19	<10	110	<0.5	<2	0.71	0.9	14	52	53	3.22
CC19149		0.16	0.009	<0.2	1.64	21	<10	120	<0.5	2	0.37	<0.5	12	52	37	2.78
CC19150		0.16	0.009	0.2	1.98	15	<10	90	<0.5	<2	0.16	<0.5	10	45	39	2.88
CC19151		0.12	0.008	0.2	1.34	19	<10	80	<0.5	<2	0.22	<0.5	8	26	33	2.05
CC19152		0.14	<0.005	0.3	2.02	14	<10	90	<0.5	2	0.23	0.7	12	46	41	2.85
CC19153		0.16	0.005	0.2	1.90	13	<10	80	<0.5	<2	0.21	0.7	11	40	37	2.68
CC19154		0.18	0.016	0.2	2.24	19	<10	90	<0.5	2	0.26	0.6	13	48	44	3.06
CC19155		0.12	<0.005	<0.2	0.83	3	<10	40	<0.5	<2	0.13	<0.5	3	9	15	0.95
CC19156		0.14	<0.005	<0.2	0.60	4	<10	30	<0.5	<2	0.14	<0.5	2	6	9	0.78
CC19157		0.12	0.006	0.2	2.22	16	<10	150	<0.5	2	0.49	0.5	14	71	48	3.38
CC19158		0.14	0.008	0.2	1.94	19	<10	140	<0.5	<2	0.48	0.5	12	66	45	2.94
CC19159		0.16	<0.005	0.2	2.02	10	<10	100	<0.5	<2	0.17	<0.5	9	48	26	2.68
CC19160		0.16	0.007	<0.2	1.96	16	<10	170	<0.5	<2	0.57	<0.5	13	59	65	3.23
CC19161		0.18	0.007	0.2	1.88	15	<10	200	<0.5	2	0.48	0.5	15	63	54	3.10

Comments: NSS is non-sufficient sample.



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		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
CC19122		10	<1	0.06	10	1.38	1145	<1	0.01	51	650	12	<0.01	<2	12	13
CC19123		<10	<1	0.05	10	0.76	567	<1	0.01	24	560	7	0.01	<2	3	13
CC19124		10	<1	0.05	10	1.58	1325	5	0.01	110	780	12	0.03	<2	9	18
CC19125		10	<1	0.06	10	1.70	1530	<1	0.01	47	1150	8	0.06	<2	8	17
CC19126		10	<1	0.06	<10	4.04	1260	<1	<0.01	85	490	3	0.01	<2	12	14
CC19127		10	<1	0.07	10	1.51	847	<1	0.01	58	340	8	<0.01	<2	7	19
CC19128		10	<1	0.07	10	0.91	593	<1	0.01	31	660	9	0.02	<2	4	16
CC19129		<10	<1	0.07	10	0.53	537	<1	<0.01	17	630	34	0.01	<2	2	21
CC19130		10	<1	0.07	10	0.65	2020	<1	<0.01	11	910	4	<0.01	<2	29	23
CC19131		10	<1	0.05	10	1.01	1220	<1	0.01	18	1180	6	0.05	<2	8	27
CC19132		10	<1	0.04	10	0.80	738	<1	0.01	19	670	6	0.03	<2	4	21
CC19133		<10	<1	0.05	10	0.80	658	<1	0.01	40	1040	10	0.09	2	4	110
CC19134		<10	<1	0.05	10	0.23	316	5	0.01	42	2480	9	0.14	2	2	316
CC19135		<10	<1	0.11	20	0.31	438	6	0.01	51	2880	14	0.09	3	3	300
CC19136		<10	<1	0.03	10	0.46	434	<1	0.01	18	1380	8	0.17	<2	1	280
CC19137		<10	<1	0.05	10	0.58	537	<1	0.01	23	1100	9	0.08	<2	2	69
CC19138		<10	<1	0.04	10	0.67	359	<1	0.01	25	540	7	0.01	<2	2	17
CC19139		10	<1	0.04	10	0.42	388	<1	<0.01	14	450	5	0.01	<2	2	13
CC19140		<10	<1	0.04	10	0.60	353	<1	<0.01	20	400	6	0.01	<2	2	15
CC19141		<10	<1	0.02	<10	0.16	258	<1	0.01	6	710	2	0.05	<2	<1	14
CC19142		<10	<1	0.05	10	0.77	771	<1	0.01	27	860	7	0.04	<2	2	32
CC19143		10	<1	0.05	10	0.79	740	1	0.01	41	790	12	0.04	<2	2	40
CC19144		10	<1	0.04	10	0.71	555	1	0.01	25	930	7	0.07	<2	1	17
CC19145		10	1	0.03	<10	3.77	1535	<1	0.01	107	550	7	0.02	<2	35	16
CC19146		10	<1	0.05	10	0.79	536	1	0.02	39	1180	7	0.10	<2	2	54
CC19147		10	<1	0.07	10	1.24	655	2	0.01	46	1580	8	0.03	<2	6	55
CC19148		<10	<1	0.07	10	1.06	608	2	0.01	41	1160	10	0.03	<2	6	43
CC19149		10	<1	0.06	10	0.88	509	1	0.01	44	570	6	0.01	<2	4	23
CC19150		10	<1	0.06	10	0.75	550	1	<0.01	26	720	10	0.03	<2	2	13
CC19151		<10	<1	0.05	10	0.50	472	1	0.01	16	640	6	0.03	<2	1	16
CC19152		<10	<1	0.06	10	0.77	610	1	<0.01	28	780	7	0.04	<2	2	17
CC19153		10	<1	0.05	10	0.66	596	1	0.01	25	700	7	0.04	<2	2	15
CC19154		<10	<1	0.06	10	0.85	608	1	0.01	30	740	7	0.04	<2	3	17
CC19155		<10	<1	0.02	<10	0.17	76	<1	0.02	5	650	<2	0.03	<2	<1	10
CC19156		<10	<1	0.02	<10	0.12	49	1	0.02	4	630	<2	0.02	<2	<1	11
CC19157		10	<1	0.08	10	1.25	589	1	0.01	56	720	9	0.01	<2	5	25
CC19158		10	<1	0.07	10	1.11	516	1	0.01	56	720	8	0.02	<2	4	25
CC19159		10	<1	0.04	10	0.51	656	1	0.01	24	630	7	0.03	<2	2	14
CC19160		10	<1	0.09	10	1.21	517	1	0.02	54	790	9	0.02	<2	6	30
CC19161		10	<1	0.08	10	1.12	601	1	0.01	70	790	9	<0.01	<2	6	31

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

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
CC19122		0.04	<10	<10	120	<10	92
CC19123		0.05	<10	<10	71	<10	58
CC19124		0.08	<10	<10	134	<10	154
CC19125		0.07	<10	<10	136	<10	80
CC19126		0.15	<10	<10	223	<10	83
CC19127		0.11	<10	<10	98	<10	57
CC19128		0.06	<10	<10	76	<10	46
CC19129		0.03	<10	<10	47	<10	66
CC19130		0.01	<10	<10	211	<10	85
CC19131		0.08	<10	<10	120	<10	78
CC19132		0.08	<10	<10	95	<10	50
CC19133		0.02	<10	<10	46	<10	89
CC19134		0.01	<10	<10	59	<10	98
CC19135		0.01	<10	<10	103	<10	124
CC19136		0.02	<10	<10	27	<10	49
CC19137		0.04	<10	<10	53	<10	42
CC19138		0.07	<10	<10	60	<10	35
CC19139		0.08	<10	<10	66	<10	34
CC19140		0.07	<10	<10	55	<10	37
CC19141		0.02	<10	<10	42	<10	26
CC19142		0.06	<10	<10	70	<10	47
CC19143		0.06	<10	<10	63	<10	62
CC19144		0.05	<10	<10	74	<10	47
CC19145		0.04	<10	<10	228	<10	106
CC19146		0.05	<10	<10	51	<10	54
CC19147		0.06	<10	<10	82	<10	85
CC19148		0.06	<10	<10	79	<10	78
CC19149		0.10	<10	<10	69	<10	45
CC19150		0.06	<10	<10	68	<10	55
CC19151		0.05	<10	<10	51	<10	48
CC19152		0.07	<10	<10	69	<10	60
CC19153		0.07	<10	<10	66	<10	54
CC19154		0.09	<10	<10	74	<10	62
CC19155		0.03	<10	<10	24	<10	17
CC19156		0.04	<10	<10	21	<10	13
CC19157		0.10	<10	<10	78	<10	66
CC19158		0.09	<10	<10	71	<10	56
CC19159		0.08	<10	<10	67	<10	39
CC19160		0.10	<10	<10	77	<10	60
CC19161		0.11	<10	<10	69	<10	62

Comments: NSS is non-sufficient sample.



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Project: Hartles Joe

CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	
CC19162		0.14	0.005	0.2	1.95	15	<10	190	<0.5	<2	0.47	<0.5	15	61	51	3.19	
CC19163		0.20	<0.005	<0.2	1.82	19	<10	100	<0.5	<2	0.63	0.8	17	66	57	3.91	
CC19164		0.24	<0.005	0.4	1.84	19	<10	120	<0.5	2	0.61	0.7	18	67	57	3.99	
CC19165		0.14	<0.005	0.4	1.64	6	<10	110	<0.5	<2	0.97	<0.5	7	27	38	2.05	
CC19166		0.12	<0.005	0.3	1.78	9	<10	170	0.5	<2	2.19	<0.5	10	35	69	2.23	
CC19167		0.16	0.006	0.3	1.90	12	<10	130	<0.5	<2	0.63	<0.5	12	46	53	3.14	
CC19168		0.10	0.006	0.4	2.29	12	<10	190	0.6	2	1.49	0.5	13	51	100	3.56	
CC19169		0.18	0.007	0.4	1.88	12	<10	160	<0.5	<2	0.74	0.6	15	40	80	3.65	
CC19170		0.12	0.007	0.4	2.28	12	<10	190	0.5	<2	0.79	0.5	16	52	75	3.72	
CC19171		0.14	0.005	0.3	2.45	16	<10	180	0.6	<2	0.56	0.6	19	53	83	4.25	
CC19172		0.14	<0.005	<0.2	1.68	9	<10	110	<0.5	<2	0.35	<0.5	8	41	30	2.57	
CC19173		0.18	0.022	0.8	1.49	16	<10	150	0.6	3	1.17	1.2	13	35	75	3.35	
CC19174		0.24	0.007	0.3	1.71	9	<10	150	0.5	<2	0.70	<0.5	11	49	41	2.76	
CC19175		0.24	0.005	0.5	2.10	8	<10	180	0.6	2	0.93	0.6	15	55	63	3.55	
CC19176		0.20	<0.005	0.5	2.08	12	<10	180	0.6	<2	1.06	0.6	13	46	56	2.89	
CC19177		0.20	0.006	0.4	2.04	9	<10	140	0.6	<2	0.52	<0.5	12	45	49	2.87	
CC19178		0.20	0.005	0.2	1.90	8	<10	110	0.6	<2	0.69	0.5	12	44	49	2.66	
CC19179		0.16	0.006	1.1	2.26	9	<10	150	0.6	<2	0.90	<0.5	14	59	73	3.59	
CC19180		0.18	0.006	0.6	1.86	5	<10	130	<0.5	<2	0.44	<0.5	12	53	43	3.12	
CC19181		0.16	<0.005	0.9	2.05	10	<10	110	0.7	<2	0.50	<0.5	16	51	50	3.21	
CC19182		0.16	0.008	1.1	2.21	7	<10	160	0.7	<2	0.85	<0.5	15	51	68	3.22	
CC19183		0.18	0.007	2.1	1.89	18	<10	160	0.9	<2	1.27	1.1	18	39	73	3.75	
CC19184		0.24	0.008	0.7	1.52	7	<10	110	0.5	<2	0.51	<0.5	12	38	43	2.99	
CC19185		0.22	0.007	1.0	1.70	12	<10	160	0.7	<2	1.02	<0.5	12	41	71	3.04	
CC19186		0.22	0.006	1.0	1.64	10	<10	140	0.5	<2	1.01	<0.5	11	40	53	2.87	
CC19187		0.16	0.016	0.9	1.53	10	<10	140	0.5	<2	0.97	<0.5	10	39	47	2.51	
CC19188		0.16	0.005	0.8	1.72	10	<10	120	<0.5	<2	1.13	<0.5	10	38	53	2.89	
CC19189		0.18	0.007	0.7	1.18	11	<10	110	<0.5	<2	1.35	0.7	9	34	42	2.44	
CC19190		0.20	0.012	1.1	1.29	14	<10	120	0.5	<2	0.86	<0.5	11	30	58	3.03	
CC19191		0.18	<0.005	0.8	1.44	10	<10	100	0.6	<2	0.91	<0.5	12	34	61	3.02	
CC19192		0.18	0.005	1.1	1.63	7	<10	170	0.7	<2	1.05	<0.5	14	32	66	2.67	
CC19193		0.20	<0.005	0.6	1.48	4	<10	110	0.6	<2	0.35	<0.5	13	29	47	2.69	
CC19194		0.18	0.007	2.0	1.61	12	<10	120	0.6	<2	0.64	<0.5	15	36	73	3.62	
CC19195		0.18	<0.005	0.6	1.68	8	<10	120	0.5	<2	0.28	<0.5	11	43	41	2.81	
CC19196		0.16	<0.005	0.5	1.53	4	<10	100	<0.5	<2	0.29	<0.5	7	40	31	2.23	
CC19197		0.16	0.005	0.3	1.20	5	<10	80	<0.5	<2	0.18	<0.5	5	27	21	1.95	
CC19198		0.22	0.005	0.4	1.34	9	<10	100	<0.5	<2	0.23	<0.5	7	41	24	2.64	
CC19199		0.20	<0.005	0.3	1.86	8	<10	100	0.5	<2	0.19	<0.5	10	42	37	2.74	
CC19200		0.20	0.009	0.3	1.83	8	<10	90	0.5	<2	0.22	<0.5	9	41	26	2.51	
CC19201		0.18	0.005	1.5	2.87	11	<10	170	0.8	<2	0.46	<0.5	27	56	94	4.51	

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 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
CC19162		10	<1	0.08	10	1.11	601	1	0.02	62	850	9	<0.01	<2	6	30
CC19163		<10	<1	0.06	10	1.49	658	2	0.02	55	1150	10	<0.01	<2	8	49
CC19164		10	<1	0.06	10	1.54	666	2	0.02	56	1190	10	<0.01	<2	8	45
CC19165		10	<1	0.04	10	0.55	375	<1	0.03	23	1040	7	0.06	<2	2	41
CC19166		10	<1	0.05	20	0.72	553	1	0.02	30	1360	7	0.15	<2	3	78
CC19167		10	<1	0.06	20	1.10	459	<1	0.01	37	880	12	<0.01	<2	6	35
CC19168		10	<1	0.10	10	1.15	655	1	0.03	40	940	14	0.08	<2	5	60
CC19169		10	<1	0.06	20	1.19	664	2	0.02	37	1010	14	0.01	<2	6	42
CC19170		10	<1	0.08	20	1.24	861	1	0.02	39	800	20	0.03	<2	6	42
CC19171		10	<1	0.07	20	1.32	856	1	0.01	49	970	13	0.02	<2	7	36
CC19172		10	<1	0.05	10	0.71	361	1	0.01	24	750	9	0.05	<2	1	23
CC19173		<10	<1	0.07	20	0.75	481	4	0.02	40	1680	12	0.05	<2	6	114
CC19174		<10	<1	0.06	20	0.86	542	2	0.01	35	1160	8	0.04	<2	3	63
CC19175		10	<1	0.08	10	1.13	604	3	0.02	55	1190	13	0.04	<2	5	79
CC19176		10	<1	0.06	20	0.86	506	2	0.01	43	1500	11	0.08	<2	4	92
CC19177		10	<1	0.06	20	0.90	520	1	0.01	37	1060	11	0.03	<2	4	39
CC19178		10	<1	0.06	10	0.84	506	1	0.02	34	1030	8	0.05	<2	3	43
CC19179		10	<1	0.10	20	1.24	578	<1	0.03	48	1300	12	0.02	<2	7	47
CC19180		10	<1	0.07	10	0.98	496	<1	0.02	35	980	11	0.02	<2	3	27
CC19181		10	<1	0.06	10	0.94	680	<1	0.02	40	1140	12	0.03	<2	3	35
CC19182		<10	<1	0.06	20	1.00	688	<1	0.02	42	1340	11	0.08	<2	5	59
CC19183		<10	<1	0.09	20	0.74	829	5	0.03	70	2460	14	0.06	3	5	140
CC19184		<10	<1	0.06	10	0.76	483	<1	0.02	38	980	10	<0.01	<2	3	42
CC19185		<10	<1	0.08	20	0.80	484	4	0.02	51	1550	10	0.04	<2	4	107
CC19186		<10	<1	0.07	20	0.83	423	1	0.02	42	1120	10	0.02	<2	4	108
CC19187		<10	<1	0.06	10	0.69	408	2	0.02	43	1540	9	0.04	<2	3	104
CC19188		<10	<1	0.05	10	0.72	530	<1	0.02	27	1420	7	0.05	<2	4	60
CC19189		<10	<1	0.07	20	0.62	367	2	0.02	36	1460	8	0.02	<2	4	132
CC19190		<10	<1	0.08	20	0.69	429	4	0.02	48	1980	10	0.05	2	4	94
CC19191		<10	<1	0.07	10	0.78	394	1	0.02	40	1200	12	0.03	<2	4	86
CC19192		<10	<1	0.05	10	0.67	755	<1	0.02	34	1640	12	0.11	<2	3	114
CC19193		10	<1	0.04	10	0.44	1050	<1	0.02	21	1540	20	0.09	<2	1	35
CC19194		10	<1	0.07	20	0.84	500	2	0.02	56	1280	14	<0.01	<2	6	61
CC19195		10	<1	0.05	10	0.73	491	<1	0.01	31	770	11	0.02	<2	2	23
CC19196		<10	<1	0.04	10	0.54	303	<1	0.02	24	1380	6	0.10	<2	1	23
CC19197		<10	<1	0.03	10	0.26	395	<1	0.01	14	1120	6	0.09	<2	<1	16
CC19198		10	<1	0.05	10	0.62	399	<1	0.01	25	650	8	0.01	<2	2	18
CC19199		<10	<1	0.03	10	0.69	457	<1	0.01	27	720	9	0.03	<2	1	16
CC19200		<10	<1	0.05	10	0.65	381	<1	0.01	27	700	7	0.02	<2	1	16
CC19201		10	<1	0.11	10	1.53	1080	<1	0.02	61	960	16	0.01	<2	6	58

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VANCOUVER BC V6B 1L8

Project: Hartles Joe

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Finalized Date: 17-AUG-2005
Account: RCM

CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC19162		0.11	<10	<10	71	<10	62
CC19163		0.08	<10	<10	93	<10	78
CC19164		0.09	<10	<10	94	<10	81
CC19165		0.05	<10	<10	46	<10	49
CC19166		0.05	<10	<10	46	<10	55
CC19167		0.10	<10	<10	62	<10	66
CC19168		0.08	<10	<10	68	<10	87
CC19169		0.10	<10	<10	57	<10	82
CC19170		0.08	<10	<10	74	<10	82
CC19171		0.10	<10	<10	76	<10	88
CC19172		0.05	<10	<10	58	<10	47
CC19173		0.03	<10	<10	68	<10	110
CC19174		0.05	<10	<10	70	<10	65
CC19175		0.06	<10	<10	72	<10	93
CC19176		0.04	<10	<10	76	<10	86
CC19177		0.06	<10	<10	67	<10	63
CC19178		0.06	<10	<10	64	<10	61
CC19179		0.10	<10	<10	84	<10	90
CC19180		0.09	<10	<10	75	<10	61
CC19181		0.07	<10	<10	69	<10	81
CC19182		0.05	<10	<10	70	<10	69
CC19183		0.03	<10	<10	61	<10	140
CC19184		0.05	<10	<10	61	<10	69
CC19185		0.04	<10	<10	84	<10	108
CC19186		0.05	<10	<10	72	<10	88
CC19187		0.04	<10	<10	66	<10	90
CC19188		0.04	<10	<10	74	<10	79
CC19189		0.05	<10	<10	65	<10	80
CC19190		0.03	<10	<10	47	<10	100
CC19191		0.04	<10	<10	60	<10	92
CC19192		0.03	<10	<10	55	<10	62
CC19193		0.02	<10	<10	58	<10	64
CC19194		0.04	<10	<10	59	<10	106
CC19195		0.05	<10	<10	63	<10	54
CC19196		0.03	<10	<10	51	<10	38
CC19197		0.02	<10	<10	47	<10	28
CC19198		0.07	<10	<10	64	<10	49
CC19199		0.05	<10	<10	67	<10	53
CC19200		0.05	<10	<10	57	<10	43
CC19201		0.07	<10	<10	100	<10	118

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC19202		0.20	<0.005	1.3	2.14	10	<10	140	0.6	<2	0.41	<0.5	16	50	67	3.77
CC19203		0.22	0.005	0.8	1.51	8	<10	120	0.5	<2	0.40	<0.5	10	34	43	2.91
CC19204		0.22	0.007	1.1	1.90	11	<10	130	0.7	<2	0.41	<0.5	17	36	69	3.48
CC19205		0.20	0.007	1.4	0.87	17	<10	120	0.6	<2	1.35	<0.5	14	23	82	3.48
CC19206		0.14	0.013	0.3	0.58	8	<10	160	<0.5	<2	3.19	1.9	4	28	30	1.06
CC19207		0.18	0.006	1.2	1.36	13	<10	290	0.6	<2	1.04	<0.5	12	31	80	3.45
CC19208		0.24	<0.005	0.8	1.83	6	<10	110	<0.5	<2	0.38	<0.5	12	30	46	3.47
CC19209		0.28	0.010	0.9	2.30	17	<10	90	<0.5	<2	0.26	<0.5	14	102	48	3.65
CC19210		0.18	0.011	1.0	2.40	25	<10	90	<0.5	<2	0.31	<0.5	17	104	55	4.09
CC19211		0.24	0.006	1.0	2.16	14	<10	130	<0.5	<2	0.43	<0.5	15	49	61	4.02
CC19212		0.24	<0.005	0.7	1.78	11	<10	100	<0.5	<2	0.28	<0.5	12	31	55	3.27
CC19213		0.22	<0.005	0.8	1.69	5	<10	120	<0.5	<2	0.39	<0.5	12	22	27	3.75
CC19214		0.22	0.005	0.4	0.85	13	<10	150	<0.5	<2	2.26	<0.5	7	33	36	1.81
CC19215		0.22	<0.005	0.9	0.80	16	<10	190	0.6	<2	3.40	1.3	7	43	39	1.87
CC19216		0.22	0.005	0.9	0.84	10	<10	130	0.5	<2	3.41	1.1	6	26	43	1.58
CC19217		0.24	0.010	0.3	1.95	3	<10	110	0.9	<2	0.38	<0.5	17	33	66	3.58
CC19218		0.18	<0.005	<0.2	1.84	3	<10	120	0.7	<2	0.36	<0.5	11	36	41	3.36
CC19219		0.22	0.006	0.3	2.21	7	<10	150	0.7	<2	0.32	<0.5	18	38	69	3.85
CC19220		0.26	0.007	0.3	1.94	3	<10	140	0.6	<2	0.30	<0.5	17	40	64	3.51
CC19221		0.22	<0.005	<0.2	1.60	<2	<10	80	0.5	<2	0.21	<0.5	8	37	25	2.44
CC19222		0.18	<0.005	0.4	1.52	7	<10	100	0.5	<2	0.27	<0.5	13	30	47	3.29
CC19223		0.16	0.006	0.7	1.28	23	<10	130	0.6	<2	1.46	7.2	10	47	44	2.64
CC19224		0.18	0.048	<0.2	1.26	5	<10	80	<0.5	2	0.21	<0.5	6	30	15	2.41
CC19225		0.22	<0.005	<0.2	1.06	4	<10	190	<0.5	<2	0.27	<0.5	4	6	5	1.37
CC19226		0.22	0.007	0.3	1.95	6	<10	160	<0.5	<2	0.65	<0.5	11	51	49	3.26
CC19227		0.16	0.010	0.6	2.27	15	<10	80	0.7	<2	0.67	<0.5	44	61	110	4.24
CC19228		0.22	0.011	0.2	2.20	5	<10	120	<0.5	<2	0.35	<0.5	15	57	45	3.68
CC19229		0.16	<0.005	0.2	1.96	10	<10	130	0.5	<2	0.45	<0.5	15	61	35	2.86
CC19230		0.18	<0.005	<0.2	2.18	6	<10	200	0.5	<2	0.81	<0.5	14	47	43	3.17
CC19231		0.22	<0.005	<0.2	2.07	4	<10	120	<0.5	<2	0.55	<0.5	14	51	36	3.31
CC19232		0.20	<0.005	0.2	0.82	5	<10	60	<0.5	<2	0.31	<0.5	4	17	14	1.41
CC19233		0.20	<0.005	<0.2	0.98	4	<10	90	<0.5	<2	0.53	<0.5	5	24	25	1.68
CC19234		0.16	0.009	0.2	1.52	8	<10	110	<0.5	<2	0.31	<0.5	11	59	28	2.79
CC19235		0.16	<0.005	<0.2	1.80	8	<10	90	<0.5	<2	0.24	<0.5	15	60	31	2.89
CC19236		0.24	0.018	0.2	2.06	15	<10	80	<0.5	2	0.32	<0.5	14	45	74	3.43
CC19237		0.20	0.005	0.4	2.03	16	<10	160	<0.5	<2	0.66	<0.5	14	63	55	3.55
CC19238		0.18	0.028	0.7	1.45	35	<10	70	<0.5	<2	0.31	<0.5	13	35	30	2.78
CC19239		0.22	<0.005	0.2	2.31	18	<10	140	<0.5	<2	0.50	<0.5	15	49	44	3.61
CC19240		0.20	0.034	<0.2	1.68	4	<10	90	<0.5	<2	0.21	<0.5	10	42	25	2.94
CC19241		0.18	0.006	<0.2	1.87	8	<10	110	<0.5	<2	0.28	<0.5	13	46	31	3.35

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	
	Units LOR	ppm 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	
CC19202		10	<1	0.07	10	1.21	593	<1	0.02	49	840	13	0.01	<2	5	37
CC19203		<10	<1	0.06	10	0.71	412	<1	0.02	33	1090	9	0.03	<2	2	40
CC19204		<10	<1	0.08	10	0.92	679	<1	0.02	46	1280	13	0.05	<2	4	46
CC19205		<10	<1	0.08	20	0.36	435	6	0.02	67	2390	10	0.08	2	4	139
CC19206		<10	<1	0.03	10	0.17	248	2	0.02	33	1900	7	0.21	2	1	365
CC19207		<10	<1	0.06	20	0.64	415	<1	0.02	33	1300	10	0.05	<2	5	106
CC19208		10	<1	0.04	10	0.82	702	<1	0.02	20	890	6	0.03	<2	3	23
CC19209		10	<1	0.05	10	1.60	650	<1	0.02	42	640	8	0.01	<2	6	17
CC19210		10	<1	0.05	10	1.51	786	<1	0.02	47	770	9	0.01	<2	5	17
CC19211		10	<1	0.04	10	1.03	820	<1	0.02	33	710	6	<0.01	<2	10	24
CC19212		<10	<1	0.04	10	0.71	547	<1	0.02	21	690	7	0.01	<2	3	17
CC19213		10	<1	0.04	10	0.64	837	<1	0.02	14	870	4	0.05	<2	4	22
CC19214		<10	<1	0.06	10	0.30	317	3	0.02	43	2100	8	0.12	<2	2	218
CC19215		<10	<1	0.06	20	0.35	280	5	0.01	57	2550	10	0.10	5	2	379
CC19216		<10	<1	0.04	20	0.35	384	6	0.01	40	2210	9	0.18	2	1	310
CC19217		10	<1	0.07	10	0.98	714	<1	0.01	41	1240	20	0.07	3	3	48
CC19218		10	<1	0.05	10	0.80	638	2	0.01	28	1340	14	0.09	<2	1	37
CC19219		10	<1	0.07	10	1.11	642	1	0.01	50	970	13	0.04	3	3	31
CC19220		10	<1	0.05	10	0.98	616	<1	0.01	44	630	12	0.02	<2	5	24
CC19221		<10	1	0.04	10	0.62	341	1	0.01	25	720	7	0.05	<2	2	17
CC19222		<10	<1	0.05	10	0.63	541	1	0.01	38	650	13	0.04	2	2	24
CC19223		<10	<1	0.09	20	0.79	478	19	0.01	66	3110	14	0.06	5	3	152
CC19224		10	<1	0.04	10	0.55	280	<1	0.01	21	550	13	0.04	<2	1	15
CC19225		<10	<1	0.05	20	0.24	282	<1	0.01	5	350	12	0.01	<2	2	15
CC19226		10	<1	0.07	10	1.08	497	<1	0.02	43	1050	10	0.03	3	5	42
CC19227		10	<1	0.09	10	1.28	1525	<1	0.01	71	1340	26	0.08	<2	5	34
CC19228		10	<1	0.05	10	1.21	704	<1	0.01	45	790	13	0.06	3	4	20
CC19229		10	1	0.06	10	0.94	808	<1	0.02	50	920	8	0.08	<2	2	24
CC19230		10	<1	0.07	10	0.92	856	<1	0.01	35	1150	10	0.09	<2	3	33
CC19231		<10	<1	0.08	10	1.00	613	<1	0.01	51	890	11	0.03	2	4	25
CC19232		<10	<1	0.03	<10	0.27	212	<1	0.02	12	590	3	0.05	<2	<1	15
CC19233		<10	<1	0.04	10	0.49	197	<1	0.03	19	880	4	0.04	<2	2	24
CC19234		10	<1	0.06	10	0.69	701	<1	0.01	27	730	6	0.07	<2	2	17
CC19235		10	<1	0.05	10	1.58	525	<1	0.01	118	830	7	0.07	<2	1	13
CC19236		10	<1	0.06	10	1.03	709	<1	0.01	35	600	6	0.02	<2	5	17
CC19237		10	<1	0.06	10	1.06	688	<1	0.01	43	1210	9	0.08	4	5	31
CC19238		<10	<1	0.04	10	0.73	555	<1	0.01	26	860	8	0.06	<2	3	20
CC19239		10	<1	0.08	10	0.99	793	<1	0.01	32	1030	11	0.06	<2	4	22
CC19240		10	<1	0.06	10	0.74	548	<1	0.01	24	650	7	0.05	<2	2	14
CC19241		10	<1	0.05	10	0.94	584	<1	0.01	29	680	12	0.05	<2	3	16

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC19202		0.06	<10	<10	78	<10	78
CC19203		0.03	<10	<10	62	<10	60
CC19204		0.04	<10	<10	61	<10	100
CC19205		0.01	<10	<10	35	<10	132
CC19206		0.01	<10	<10	57	<10	64
CC19207		0.03	<10	<10	53	<10	87
CC19208		0.07	<10	<10	89	<10	57
CC19209		0.06	<10	<10	106	<10	58
CC19210		0.05	<10	<10	119	<10	87
CC19211		0.08	<10	<10	108	<10	75
CC19212		0.07	<10	<10	77	<10	56
CC19213		0.07	<10	<10	92	<10	45
CC19214		0.01	<10	<10	48	<10	86
CC19215		0.02	<10	<10	97	<10	111
CC19216		0.01	<10	<10	42	<10	77
CC19217		0.03	<10	<10	52	<10	86
CC19218		0.02	<10	<10	83	<10	69
CC19219		0.05	<10	<10	76	<10	85
CC19220		0.07	<10	<10	75	<10	77
CC19221		0.06	<10	<10	56	<10	46
CC19222		0.05	<10	<10	55	<10	71
CC19223		0.03	<10	<10	102	<10	220
CC19224		0.05	<10	<10	49	<10	51
CC19225		0.01	<10	<10	10	<10	37
CC19226		0.08	<10	<10	65	<10	75
CC19227		0.09	<10	<10	100	<10	90
CC19228		0.09	<10	<10	93	<10	51
CC19229		0.06	<10	<10	68	<10	54
CC19230		0.05	<10	<10	65	<10	62
CC19231		0.09	<10	<10	66	<10	63
CC19232		0.03	<10	<10	34	<10	28
CC19233		0.06	<10	<10	42	<10	39
CC19234		0.06	<10	<10	69	<10	44
CC19235		0.05	<10	<10	65	<10	57
CC19236		0.12	<10	<10	78	<10	55
CC19237		0.06	<10	<10	86	<10	63
CC19238		0.05	<10	<10	70	<10	43
CC19239		0.04	<10	<10	82	<10	70
CC19240		0.06	<10	<10	72	<10	45
CC19241		0.07	<10	<10	77	<10	49

Comments: NSS is non-sufficient sample.



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CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC19242		0.24	0.006	<0.2	1.86	6	<10	70	<0.5	<2	0.21	<0.5	13	40	34	3.17
CC19243		0.20	0.014	<0.2	2.17	9	<10	80	<0.5	<2	0.19	<0.5	14	61	33	3.49
CC19244		0.20	0.056	0.3	1.52	69	<10	100	0.5	<2	0.31	<0.5	15	23	118	4.58
CC19245		0.26	0.018	0.2	3.48	7	<10	50	<0.5	<2	0.70	<0.5	24	216	75	5.51
CC19246		0.26	0.016	0.4	1.86	67	<10	190	<0.5	<2	0.61	<0.5	30	72	92	7.06
CC19247		0.22	<0.005	0.2	1.24	24	<10	170	0.5	<2	0.46	<0.5	32	19	115	8.17
CC19248		0.26	0.008	0.4	1.93	13	<10	80	<0.5	<2	0.24	<0.5	15	44	55	3.37
CC19249		0.18	0.006	0.3	0.99	43	<10	120	0.5	<2	0.74	<0.5	34	24	149	8.08
CC19250		0.22	0.040	0.3	1.82	17	<10	180	<0.5	<2	0.55	<0.5	21	49	91	4.51
CC19251		0.18	<0.005	<0.2	1.96	5	<10	90	<0.5	<2	0.52	<0.5	22	55	45	3.91
CC19252		0.24	0.006	<0.2	1.66	9	<10	70	<0.5	<2	0.36	<0.5	12	44	27	2.82
CC19253		0.20	<0.005	<0.2	2.77	14	<10	90	<0.5	<2	0.28	<0.5	24	63	51	5.24
CC19254		0.20	0.007	<0.2	2.61	10	<10	60	<0.5	<2	0.41	<0.5	23	69	53	4.78
CC19255		0.18	0.033	<0.2	2.58	46	<10	50	0.5	<2	0.67	<0.5	33	73	73	6.37
CC19256		0.12	<0.005	<0.2	2.02	2	<10	90	<0.5	<2	0.79	<0.5	16	46	41	3.29
CC19257		0.16	<0.005	<0.2	1.88	5	<10	60	<0.5	2	0.33	<0.5	14	48	33	3.35
CC19258		0.18	0.008	<0.2	1.82	<2	<10	50	<0.5	<2	0.54	<0.5	20	49	60	3.14
CC19259		0.16	0.011	<0.2	2.00	<2	<10	70	<0.5	<2	0.31	<0.5	16	58	35	3.64
CC19260		0.14	<0.005	<0.2	2.27	<2	<10	80	<0.5	<2	0.57	<0.5	22	58	45	3.85
CC19261		0.18	0.006	<0.2	2.50	<2	<10	80	<0.5	<2	0.33	<0.5	18	64	47	3.75
CC19262		0.16	0.006	0.2	1.92	20	<10	120	0.7	<2	0.59	<0.5	39	31	64	9.31
CC19263		0.16	<0.005	0.3	3.56	<2	<10	90	<0.5	<2	0.56	<0.5	44	208	114	7.21
CC19264		0.16	0.010	0.4	2.82	29	<10	180	0.6	<2	0.62	<0.5	51	169	117	8.34

Comments: NSS is non-sufficient sample.



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Project: Hartles Joe

Page: 8 - B
Total Pages: 8 (A - C)
Finalized Date: 17-AUG-2005
Account: RCM

CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
CC19242		10	<1	0.04	10	0.88	572	<1	0.01	26	610	7	0.04	<2	4	12
CC19243		10	<1	0.05	10	1.20	529	<1	0.01	37	660	10	0.05	<2	5	11
CC19244		<10	<1	0.06	10	0.53	1075	<1	0.01	15	660	13	0.04	9	12	19
CC19245		10	<1	0.08	10	3.18	1160	<1	0.01	71	270	2	0.02	4	7	30
CC19246		<10	<1	0.08	10	1.00	1570	<1	0.01	69	750	8	0.04	<2	35	37
CC19247		<10	<1	0.06	<10	0.53	1835	<1	0.01	17	840	4	0.02	<2	26	14
CC19248		<10	<1	0.05	10	0.96	720	<1	0.01	31	610	11	0.03	<2	6	14
CC19249		<10	<1	0.15	<10	0.30	1720	1	0.01	46	1030	9	0.03	<2	30	59
CC19250		<10	<1	0.06	10	0.95	1160	<1	0.01	29	730	9	0.04	<2	16	29
CC19251		10	<1	0.03	10	1.20	1080	1	0.01	30	980	9	0.08	<2	4	23
CC19252		10	<1	0.04	10	0.77	590	<1	0.01	29	650	8	0.03	<2	3	16
CC19253		10	<1	0.05	10	1.58	1005	<1	0.01	37	1070	9	0.06	<2	8	16
CC19254		10	1	0.04	10	1.56	1085	<1	0.02	41	730	8	0.04	2	8	19
CC19255		10	<1	0.06	10	1.83	1175	1	0.02	58	1180	16	0.06	3	14	22
CC19256		10	<1	0.05	10	0.95	812	<1	0.01	28	990	7	0.09	<2	4	24
CC19257		10	<1	0.05	10	0.95	676	<1	0.01	29	740	5	0.05	<2	4	13
CC19258		<10	<1	0.04	10	1.00	667	<1	0.01	33	730	6	0.04	<2	5	17
CC19259		10	<1	0.04	10	1.07	677	<1	0.01	32	760	9	0.04	<2	6	14
CC19260		10	<1	0.05	10	1.26	993	<1	0.02	31	1340	9	0.11	<2	4	21
CC19261		10	<1	0.04	10	1.34	654	<1	0.01	40	600	6	0.04	<2	6	14
CC19262		10	<1	0.04	<10	1.18	2020	<1	0.01	31	740	8	0.03	2	33	16
CC19263		10	1	0.03	10	2.97	1685	<1	0.01	69	530	4	0.04	5	33	16
CC19264		10	<1	0.04	<10	1.94	2330	<1	0.01	83	500	11	0.02	2	39	18

Comments: NSS is non-sufficient sample.



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Project: Hartles Joe

Page: 8 - C
Total Pages: 8 (A - C)
Finalized Date: 17-AUG-2005
Account: RCM

CERTIFICATE OF ANALYSIS VA05058236

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC19242		0.07	<10	<10	74	<10	47
CC19243		0.08	<10	<10	91	<10	54
CC19244		0.02	<10	<10	70	<10	71
CC19245		0.19	<10	<10	156	<10	83
CC19246		0.02	<10	<10	100	<10	95
CC19247		0.01	<10	<10	109	<10	100
CC19248		0.08	<10	<10	74	<10	57
CC19249		<0.01	<10	<10	101	<10	146
CC19250		0.03	<10	<10	100	<10	61
CC19251		0.09	<10	<10	101	<10	50
CC19252		0.08	<10	<10	68	<10	44
CC19253		0.06	<10	<10	139	<10	68
CC19254		0.09	<10	<10	132	<10	60
CC19255		0.07	<10	<10	160	<10	116
CC19256		0.09	<10	<10	77	<10	56
CC19257		0.12	<10	<10	78	<10	50
CC19258		0.11	<10	<10	74	<10	49
CC19259		0.10	<10	<10	89	<10	54
CC19260		0.11	<10	<10	95	<10	64
CC19261		0.13	<10	<10	95	<10	53
CC19262		0.02	<10	<10	230	<10	72
CC19263		0.04	<10	<10	197	<10	81
CC19264		0.05	<10	<10	203	<10	128

Comments: NSS is non-sufficient sample.

**APPENDIX III
ROCK SAMPLE DESCRIPTIONS**

Rock Sample Descriptions

Project: Hartles Joe Property: Hartles Joe

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Sample Number: B395824 Grid North: UTM: 6754460 N Grid East: UTM: 515960 E Type: Float Dimension: 20x15x15cm
 E Sample Width: Lots. Abundance: Lots.
 Elevation: m

Comments: (BW HT 01) Rusty weathering fine grained green volcanic w/ fine grained disseminated py throughout (magnetic) and coarse grained pyrite cubes on fractures.

Sample Number: B395825 Grid North: UTM: 6754690 N Grid East: UTM: 515871 E Type: Float Dimension: 35x35x35"
 E Sample Width: Not sourced Abundance: Not sourced
 Elevation: m

Comments: (BW HT 02) Red Jasper/Jasperoid with abundant white-grey qtz stockwork with fine grained pyrite and black magnetite crystals. Uncharacteristic of other rx in drainage. More float found on the SW side of creek bed.

Sample Number: B395826 Grid North: UTM: 6754815 N Grid East: UTM: 515804 E Type: float Dimension: 20x10x10"
 E Sample Width: moderate Abundance: moderate
 Elevation: m

Comments: (BW HT 03) Quartz vein float in creek w light-med malachite stained surface. Cpy and py mineralization. Fine grained white vein qtz, Not grainy.

Sample Number: B395827 Grid North: UTM: " N Grid East: UTM: " E Type: Float Dimension: 45x35x35
 E Sample Width: Several Abundance: Several
 Elevation: m

Comments: (BW HT 04) Pale to med green volcanic crackle breccia healed with py and cpy bearing white quartz.

Sample Number: B395828 Grid North: UTM: " N Grid East: UTM: " E Type: Float Dimension: 20x20x20cm
 E Sample Width: 1pc. Abundance: 1pc.
 Elevation: m

Comments: (BW HT 05) Weakly oxidized qtz vein (cream/white) with pale green volc/Basalt? clast on edge. Abundant red-brown pits and abundant mal/azurite plus residual cpy on broken surfaces.

Sample Number: B395829 Grid North: UTM: " N Grid East: UTM: " E Type: Float Dimension: 11cm.
 E Sample Width: Moderate. Abundance: Moderate.
 Elevation: m

Comments: Qtz & carbonate vein float - hefty for its size, moderate banded appearance longitudinally defined by possible different pulses of qtz material and lesser limonitic/brown-grey stringers. Minor grey ss, cpy, gn is copper band.

Rock Sample Descriptions

Project: HARTLES JOE. Property: _____

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Sample Number: B395830 Grid North: _____ N Grid East: _____ E Type: Float Dimension: _____ 2
 UTM: 6752196 N UTM: 515177 E Sample Width: 15cm Abundance: Moderate
 Elevation: _____ m

Comments: QUARTZ FLOODED CARBONATE BRX. plus narrow ^{salvage} vein of quartz
vein. BRX SECTION IS WEAKLY MTD WITH DISSEMINATED PRACTLY CHALCOPYRITE
and possible TRACE galena. SALVAGE MATERIAL CONTAINS STRIPES of grey-BLK SX.

Sample Number: B395831 Grid North: _____ N Grid East: _____ E Type: Float Dimension: _____
 UTM: 6752196 N UTM: 515177 E Sample Width: 15cm Abundance: Minor/Mod.
 Elevation: _____ m

Comments: Rusty weathering QUARTZ vein with minor carbonate component.
Broken surface shows very weak syntaxial growth and abundant semi longitudinal
parallel fractures containing grey-BLK SX, visible galena blebs and cupromalachite.

Sample Number: B395832 Grid North: _____ N Grid East: _____ E Type: Float Dimension: _____
 UTM: 6752225 N UTM: 515250 E Sample Width: 12cm Abundance: Minor/mod.
 Elevation: _____ m

Comments: Strongly Rusty weathering Quartz vein material w longitudinal
striations of grey-BLK SX plus visible galena to 7%
Also large concentrations of pyrite.

Sample Number: B395833 Grid North: _____ N Grid East: _____ E Type: Float Dimension: _____
 UTM: 6752245 N UTM: 515241 E Sample Width: 20cm Abundance: Minor
 Elevation: _____ m

Comments: LOOKS LIKE A QUARTZ FLOODED SEDIMENT WITH CITRORITE-SERKITE
ACTN along some planes. Quartz is white and pyrite is
moderate throughout.

Sample Number: B395834 Grid North: _____ N Grid East: _____ E Type: Float Dimension: 30cm x 30cm x 20cm
 UTM: 6752435 N UTM: 515767 E Sample Width: _____ Abundance: Minor/Mod.
 Elevation: _____ m

Comments: HEMATIZED JASPEROID WITH moderate white-yellow Qtz streaking.
Minor magnetic bearing areas and some orange pitted material
likely after carbonate.

Sample Number: B395835 Grid North: _____ N Grid East: _____ E Type: Float Dimension: 35 x 30 x 25 cm
 UTM: 6752479 N UTM: 515796 E Sample Width: _____ Abundance: 1 pc.
 Elevation: _____ m

Comments: QUARTZ float with red hematized jasperoid fragments, blebby
magnetic and pyrite.

Rock Sample Descriptions

Project: Hartless Joe Property: _____

Sample Number: P395836 Grid North: _____ N Grid East: _____ E Type: Float Dimension: _____
 UTM: 6749527 N UTM: 517916 E Sample Width: 70 35cm Abundance: LOTS
 Elevation: _____ m
 Comments: CREAM WHITE QZ VEIN FLOAT WITH ABUNDANT ORANGE PITTS and BANDS AFTER CARBONATE AND PYRITE.
Adjacent sample one piece of apile with qtz selvage AND MINOR FLUCKS MALACHITE.

Sample Number: P396836 Grid North: _____ N Grid East: _____ E Type: Float Dimension: BW-ACE-1
 UTM: 6753313 N UTM: 517557 E Sample Width: _____ Abundance: _____
 Elevation: _____ m
 Comments: QUARTZ CARB + WHITE QZ VEIN FLOAT (IE) WHITE QU ON SELVAGE
BUBBLY PYRITE + GALENA RANDOM.
Float TRAIN ~ 2m WIDE - NOT SOURCED.

Sample Number: P396837 Grid North: _____ N Grid East: _____ E Type: Float Dimension: BW-ACE-2
 UTM: 6753226 N UTM: 517521 E Sample Width: ~6cm Abundance: Float TR.
 Elevation: _____ m
 Comments: Ruety orange - cream coarse vein float mineralized with
blabby galena AND pyrite

Sample Number: P396838 Grid North: _____ N Grid East: _____ E Type: Float Dimension: BW-ACE-3
 UTM: 6753151 N UTM: 517477 E Sample Width: 5cm Abundance: Float TR.
 Elevation: _____ m
 Comments: Ruety vein material highly pitted and fractured along
longitudinal direction. MZD by fine galena > py > cp
* Heavy sphalerite in other pieces not sampled.

Sample Number: P396839 Grid North: _____ N Grid East: _____ E Type: Float Dimension: BW-ACE-4
 UTM: 6753171 N UTM: 517354 E Sample Width: 12cm Abundance: _____
 Elevation: _____ m
 Comments: WHITE QZ SWART WITH chloritized selvages and areas
of chloritization internally. strongly m zoned with sphalerite > gn > py
along one edge.

Sample Number: P396840 Grid North: _____ N Grid East: _____ E Type: _____ Dimension: BW-ACE-5
 UTM: " N UTM: " E Sample Width: _____ Abundance: _____
 Elevation: _____ m
 Comments: similar to 839 but more qtz vein look with chloritoid
fragments. MZD by TRACES of gn + cp + py.

Rock Sample Descriptions

Project: HARTLES JOE Property: _____

Sample Number: P396844 Grid North: _____ N Grid East: _____ E Type: Flatt Dimension: BW-AE-6
UTM: 6753193 N UTM: 517322 E Sample Width: 12cm Abundance: _____
Elevation: _____ m

Comments: White qtz - weakly oxidized on weathered surface.
Minor blebby gne ssy.

Sample Number: _____ Grid North: _____ N Grid East: _____ E Type: _____ Dimension: _____
UTM: _____ N UTM: _____ E Sample Width: _____ Abundance: _____
Elevation: _____ m

Comments: _____

Sample Number: _____ Grid North: _____ N Grid East: _____ E Type: _____ Dimension: _____
UTM: _____ N UTM: _____ E Sample Width: _____ Abundance: _____
Elevation: _____ m

Comments: _____

Sample Number: _____ Grid North: _____ N Grid East: _____ E Type: _____ Dimension: _____
UTM: _____ N UTM: _____ E Sample Width: _____ Abundance: _____
Elevation: _____ m

Comments: _____

Sample Number: _____ Grid North: _____ N Grid East: _____ E Type: _____ Dimension: _____
UTM: _____ N UTM: _____ E Sample Width: _____ Abundance: _____
Elevation: _____ m

Comments: _____

Sample Number: _____ Grid North: _____ N Grid East: _____ E Type: _____ Dimension: _____
UTM: _____ N UTM: _____ E Sample Width: _____ Abundance: _____
Elevation: _____ m

Comments: _____

Rock Sample Descriptions

Project: HARTLES JOE Property: _____

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Sample Number: B395836 Grid North: N UTM: 6749527 Grid East: N UTM: 517916 E Type: Cr. Float Dimension: _____ Abundance: Moderate
 Elevation: m
 Comments: White-cream quartz carbonate vein float with orange limonite pits after carbonate and possibly pyrite.
* Several blebs of malachite observed on vein surface during pickup. - not sampled.

Sample Number: B395837 Grid North: N UTM: 6753078 Grid East: N UTM: 517031 E Type: Float Dimension: 25' x 15" x 30" Abundance: _____
 Elevation: m
 Comments: Quartz vein material, creamy white colour w orange limonite pits, very visible galena on stringer surfaces. Site will be revisited. Moderately abundant in talus.

Sample Number: B395838 Grid North: N UTM: 6755164 Grid East: N UTM: 516132 E Type: float Dimension: 25cm x 15cm x 20cm Abundance: sparse
 Elevation: m
 Comments: Jasper (jasperoid) float in andesitic talus. Not as dominantly qtz flooded as others. Definitely more magnetite rich, partly massive?

Sample Number: B395839 Grid North: N UTM: 6755130 Grid East: N UTM: 516056 E Type: float Dimension: _____ Abundance: _____
 Elevation: m
 Comments: Quartz-Andesite breccia w minor limonite pits and py.

Sample Number: B395840 Grid North: N UTM: 6754853 Grid East: N UTM: 515795 E Type: float Dimension: 25cm x 15cm x 15cm Abundance: sparse
 Elevation: m
 Comments: Qtz vein float w approx. parallel limonite pits oriented in a somewhat banded orientation. No visible sulphides but surficial staining is present.

Sample Number: B395841 Grid North: N UTM: 6754881 Grid East: N UTM: 515778 E Type: boulder Dimension: 16" x 35" high x 25" deep Abundance: _____
 Elevation: m
 Comments: Large boulder w nubby orange-brown surface. Heavily sulphide content. Py, cpv, pb and a blue-shiny unknown mineral (covellite?) not abundant. Host rock seems to be Ands. that has been flooded into brxx w qtz. Mn in both Qtz & Ands components.

Rock Sample Descriptions

Project: Hartles Joe Property: Hartles Joe

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Sample Number: B395842 Grid North: 6751088 N Grid East: 515668 E Type: float Dimension: 10cm x 30cm x 15cm
 UTM: 6751088 N UTM: 515668 E Sample Width: _____ Abundance: moderate
 Elevation: m

Comments: Float sample of smokey white quartz w sulphide staining. Very light py disseminated throughout. Grey stringers w/in qtz => another sulphide?

Sample Number: B395843 Grid North: 6753927 N Grid East: 515183 E Type: float grab Dimension: _____
 UTM: 6753927 N UTM: 515183 E Sample Width: 3m Abundance: moderate
 Elevation: m

Comments: Qtz vein float material occurs below o/c of mafics-rich diorite. Relationship of qtz vein w/in float distinct. <1% py blebs w cpy, abundant limonite pits & sx oxidation.

Sample Number: B395844 Grid North: 6753989 N Grid East: 515125 E Type: float/grab Dimension: _____
 UTM: 6753989 N UTM: 515125 E Sample Width: 2m Abundance: moderate
 Elevation: m

Comments: Still w/in recessive linear bench (same as '843). Orange-brown-purple weathered surface w minimal limonite pits, 0-4% py (2-4%), black stringers => host rock or v. fine sx?

Sample Number: B395845 Grid North: 6754254 N Grid East: 515287 E Type: float Dimension: 10cm x 15cm x 20cm
 UTM: 6754254 N UTM: 515287 E Sample Width: _____ Abundance: abundant
 Elevation: m

Comments: Area of sample has abundant Jasper/Jasperoid rock in float. Large boulders can be found. Rock sampled was v. qtz rich w/ other rocks of similar nature. Py disseminated weakly through rx.

Sample Number: B395846 Grid North: 6752689 N Grid East: 516004 E Type: float Dimension: 12" x 12" x 15"
 UTM: 6752689 N UTM: 516004 E Sample Width: _____ Abundance: moderate
 Elevation: m

Comments: Rock-host is a dark silicious rock, partly chloritized with a 5cm qtz vein. Both are mineralized w py and galena.

Sample Number: B395847 Grid North: 6752689 N Grid East: 516010 E Type: float Dimension: 10cm x 30cm x 20cm
 UTM: 6752689 N UTM: 516010 E Sample Width: _____ Abundance: moderate
 Elevation: m

Comments: Sample of ~1cm-2cm wide qtz vein w similar pit & galena mzn as in '846. More weathering-tarnish w this piece.

Rock Sample Descriptions

Project: Hartles JOP Property: _____

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Sample Number: B395848 Grid North: UTM: 6752716 Elevation: _____ N Grid East: UTM: 515995 E Type: Float Dimension: 8cm x 10cm x 30cm E Sample Width: _____ Abundance: moderate

Comments: med grained/textured qtz vein in remnant mafic rock. Heavy limonite pitted areas or pods <1cm. py disseminated in purple tarnish.

Sample Number: B395849 Grid North: UTM: 6752679 Elevation: _____ N Grid East: UTM: 516023 E Type: Float Dimension: 1 foot x 0.75 ft E Sample Width: _____ Abundance: sparse

Comments: Jasperoid in qtz float. Rock surface has yellow & pink tinge abundant well formed pyrite xtals and limonite pits where sx has been. One small bleb of galena was seen.

Sample Number: B395850 Grid North: UTM: 6752682 Elevation: _____ N Grid East: UTM: 516018 E Type: Float Dimension: 1.5 ft x 1.5 ft E Sample Width: _____ Abundance: _____

Comments: Found in float near 849, sample of suspended pyrite xtals in pitted, limonitic-looking quartz.

Sample Number: B395901 Grid North: UTM: 6752678 Elevation: _____ N Grid East: UTM: 516025 E Type: float Dimension: 25cm x 25cm x 10cm E Sample Width: _____ Abundance: abundant

Comments: Quartz vein material in abundant py mzn and minimal px.

Sample Number: B395902 Grid North: UTM: 6752650 Elevation: _____ N Grid East: UTM: 516060 E Type: float Dimension: 4cm thick x 14 x 14 cm E Sample Width: _____ Abundance: abundant upslope.

Comments: Sample of milky white qtz vein material in no host rock attached. Py and galena mzn, light orange weathering.

Sample Number: B395903 Grid North: UTM: 6752610 Elevation: _____ N Grid East: UTM: 516047 E Type: float Dimension: 30cm x 40cm x 10cm E Sample Width: _____ Abundance: _____

Comments: Almost in v. bottom of linear. Qtz vein in adj. host rock. Both are heavily mineralized. white qtz vein in very green siliceous rk (serpentene) qtz has abundant galena, py while f/g host rock has disseminated ru throughout. Pieces of both taken for assay (together)

Rock Sample Descriptions

Project: Hartles Property: _____

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Sample Number: B395904
 Grid North: UTM: 6753063
 Grid East: UTM: 517218
 Elevation: m
 Type: float
 Dimension: 12" x 6"
 Sample Width:
 Abundance:

Comments: Brown + black weathered surface on reworked
 qtz-rich material. Not characteristic vein material at all.
 Fine-med disseminated py. Black stringers of sx (?)

Sample Number: B395905
 Grid North: UTM: 6753012
 Grid East: UTM: 517297
 Elevation: m
 Type: float
 Dimension: 10cm thick x 25cm x 90cm
 Sample Width:
 Abundance:

Comments: Qtz flooding in a dark green siliceous rock w fine
 disseminated py and up to 2mm py xtals. Minimal
 amounts of galena present. Possibly one darker sx in rock
 (not px or dpy)

Sample Number: B395906
 Grid North: UTM: 6753015
 Grid East: UTM: 517305
 Elevation: m
 Type: float
 Dimension: 12" x 4" x 10"
 Sample Width:
 Abundance: abundant in talus

Comments: Jasper/Jasperoid rock w qtz radiating in a unique
 circular/flower pattern. F/g black xtals => magnetite
 present. No visible sx.

Sample Number: B395907
 Grid North: UTM: 6753060
 Grid East: UTM: 517309
 Elevation: m
 Type: float
 Dimension: 8" x 10" x 12"
 Sample Width:
 Abundance: abundant

Comments: Jasper, qtz and green siliceous rock w py disseminated
 finely in all phases. Somewhat parallel banding of
 qtz material. Black mineralization once again.

Sample Number: B395908
 Grid North: UTM: 6753244
 Grid East: UTM: 517172
 Elevation: m
 Type: float
 Dimension: 10" x 10" x 4"
 Sample Width:
 Abundance: sparse

Comments: Green siliceous rock w qtz component. Py disseminated
 and found as "skin" over <3mm area. Py appears to have
 unknown black mineral assoc. w it. Minimal rusty, pitted
 areas.

Sample Number: B395909
 Grid North: UTM: 6753128
 Grid East: UTM: 517280
 Elevation: m
 Type: float
 Dimension: 10cm x 20" x 12"
 Sample Width:
 Abundance:

Comments: White-yellow-orange qtz vein slab. ~~Thin~~ Mineralization
 is dominantly galena and it occurs in pods/areas up
 to 2.5cm

Rock Sample Descriptions

Project: Hartles JOO Property: _____

Page 1 of 5/5

Sample Number: B395910 Grid North: _____ N Grid East: _____ E Type: float Dimension: 15cm x 20cm x 8cm

UTM: 6753064 N UTM: 517312 E Sample Width: _____

Abundance: _____

Elevation: _____ m

Comments: Qtz vein w py and py heavily disseminated throughout. Py seems to "rim" another sx, possibly galena? Mn as bands and blebs

Sample Number: B395911 Grid North: _____ N Grid East: _____ E Type: float Dimension: 12" x 15" x 20"

UTM: 6753153 N UTM: 517497 E Sample Width: _____

Abundance: _____

Elevation: _____ m

Comments: Andesite host and/or pieces of brxx fragments. Abundant py and cryptic cpy. Grey intrusive component has sx stringers.

Sample Number: B395912 Grid North: _____ N Grid East: _____ E Type: float Dimension: 12" x 15cm x 12"

UTM: 6753219 N UTM: 516129 E Sample Width: _____

Abundance: abundant

Elevation: _____ m

Comments: Andesite dyke w py disseminated throughout and slightly more concentrated in areas of fractures where it could have 'flushed' into. Tarnished surface.

Sample Number: B395913 Grid North: _____ N Grid East: _____ E Type: _____ Dimension: 1.5 ft x 15cm x 6" wide

UTM: 6753137 N UTM: 516087 E Sample Width: _____

Abundance: sparse - moderate

Elevation: _____ m

Comments: Rock sits in talus slope below plateau near a large linear. Rock is silicified, grey-ish in colour, has abundant chloritization, massive py w minimal py, another sx \Rightarrow very rich yellow colour: unknown. Rep taken for Bill Doug.

Sample Number: B395914 Grid North: _____ N Grid East: _____ E Type: _____ Dimension: 1ft x 0.75ft x 0.75ft

UTM: 6753288 N UTM: 516339 E Sample Width: _____

Abundance: abundant

Elevation: _____ m

Comments: massive py in a grey siliceous rock. Very nubbly - tarnished surface. Some Qtz stringers present. Py \leq 4mm cubes.

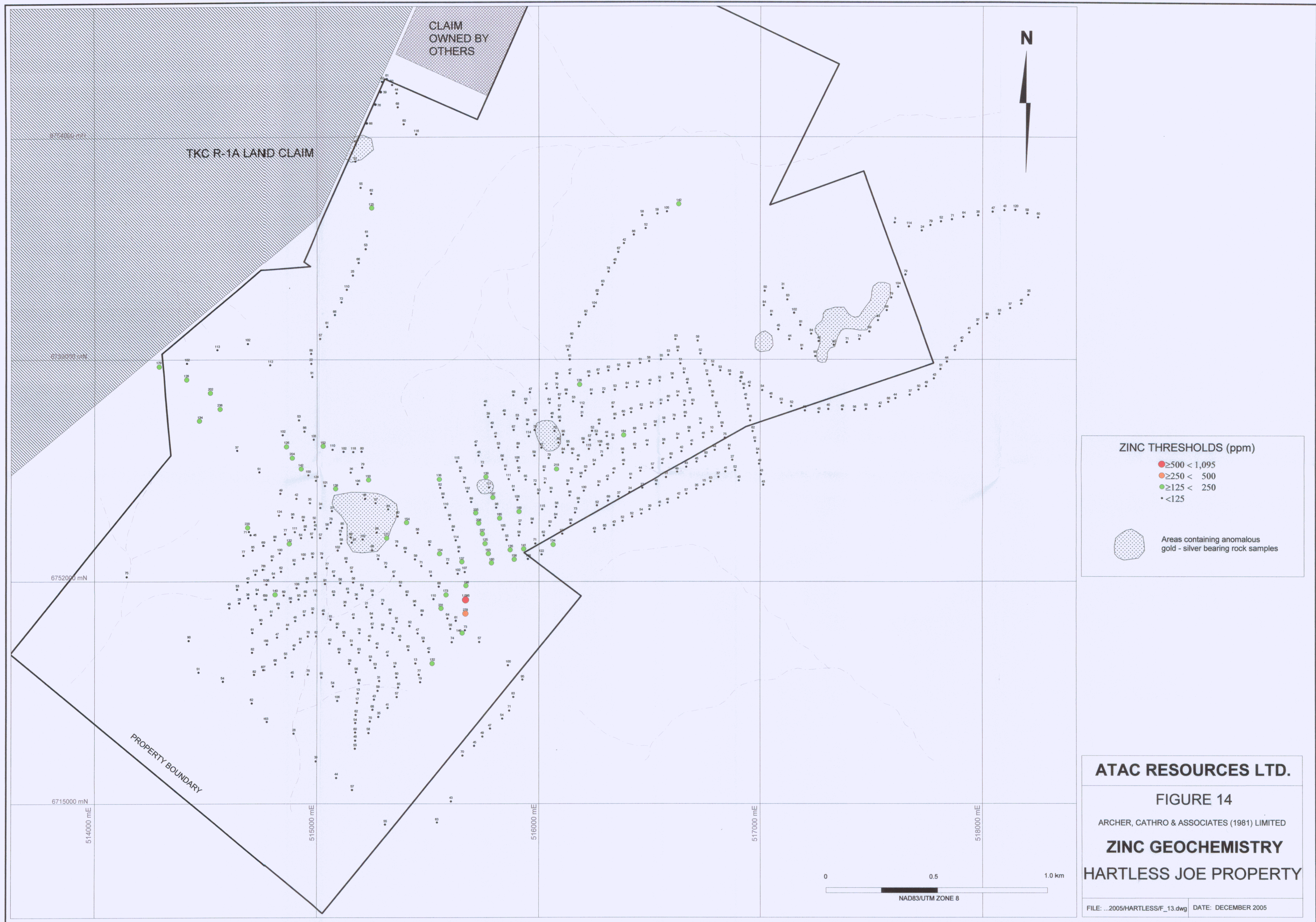
Sample Number: _____ Grid North: _____ N Grid East: _____ E Type: _____ Dimension: _____

UTM: _____ N UTM: _____ E Sample Width: _____

Abundance: _____

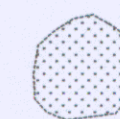
Elevation: _____ m

Comments: _____



ZINC THRESHOLDS (ppm)

- $\geq 500 < 1,095$
- $\geq 250 < 500$
- $\geq 125 < 250$
- < 125



Areas containing anomalous gold - silver bearing rock samples

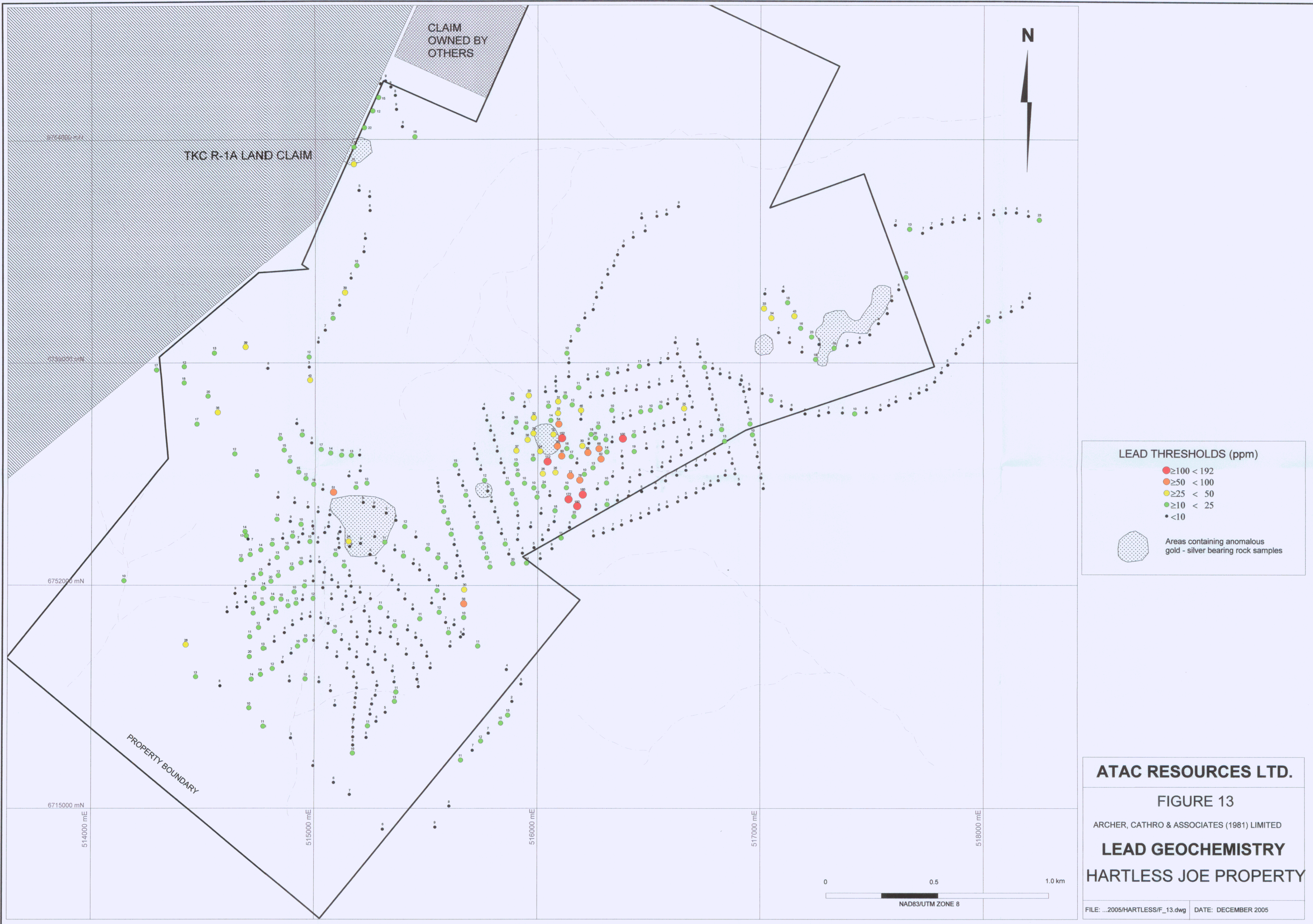
ATAC RESOURCES LTD.

FIGURE 14

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

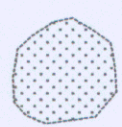
**ZINC GEOCHEMISTRY
HARTLESS JOE PROPERTY**

FILE: ...2005/HARTLESS/F_13.dwg DATE: DECEMBER 2005



LEAD THRESHOLDS (ppm)

- $\geq 100 < 192$
- $\geq 50 < 100$
- $\geq 25 < 50$
- $\geq 10 < 25$
- < 10

 Areas containing anomalous gold - silver bearing rock samples

ATAC RESOURCES LTD.

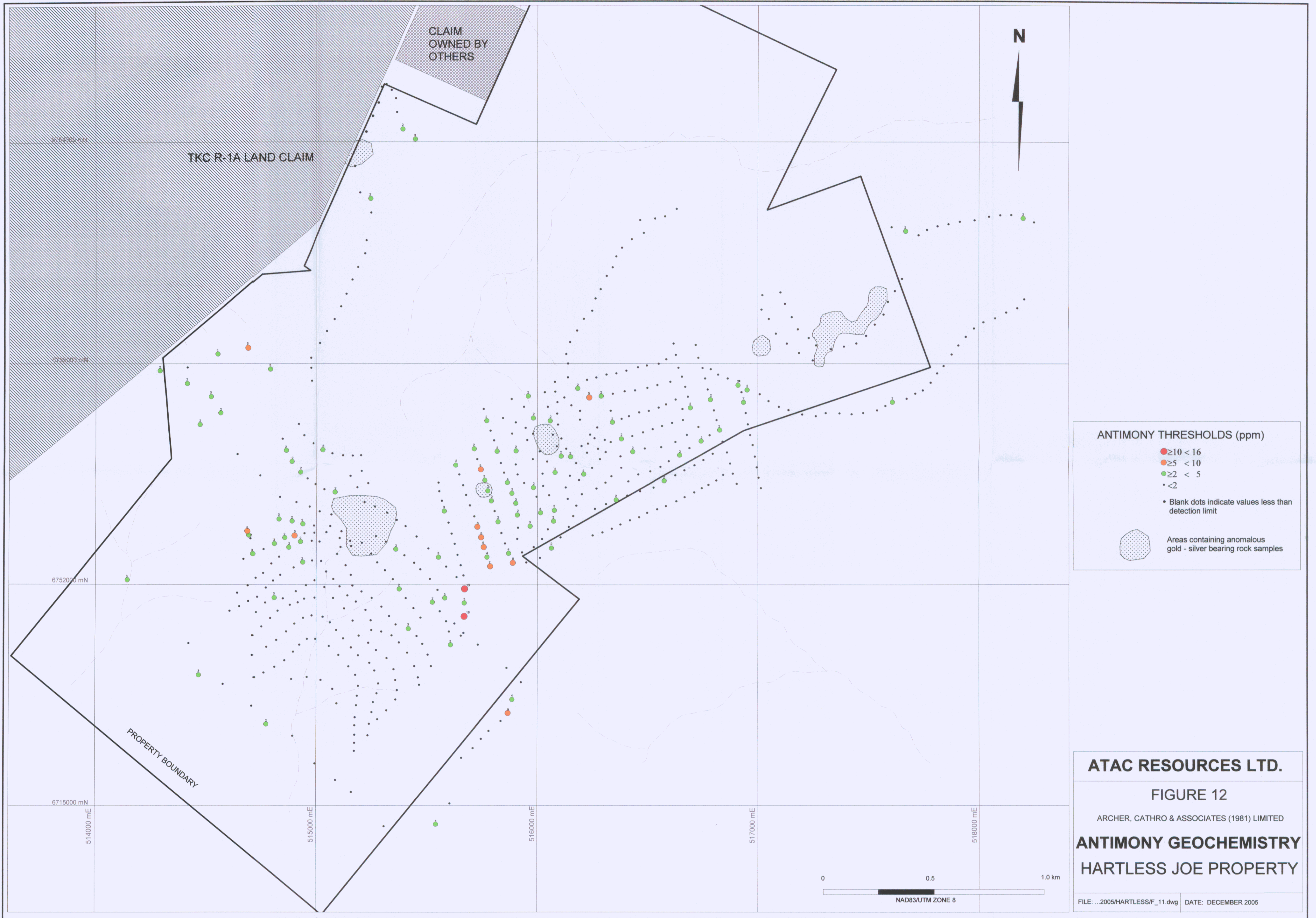
FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LEAD GEOCHEMISTRY

HARTLESS JOE PROPERTY

FILE: ...2005/HARTLESS/F_13.dwg DATE: DECEMBER 2005



ANTIMONY THRESHOLDS (ppm)

- $\geq 10 < 16$
- $\geq 5 < 10$
- $\geq 2 < 5$
- < 2

• Blank dots indicate values less than detection limit

▨ Areas containing anomalous gold - silver bearing rock samples

ATAC RESOURCES LTD.

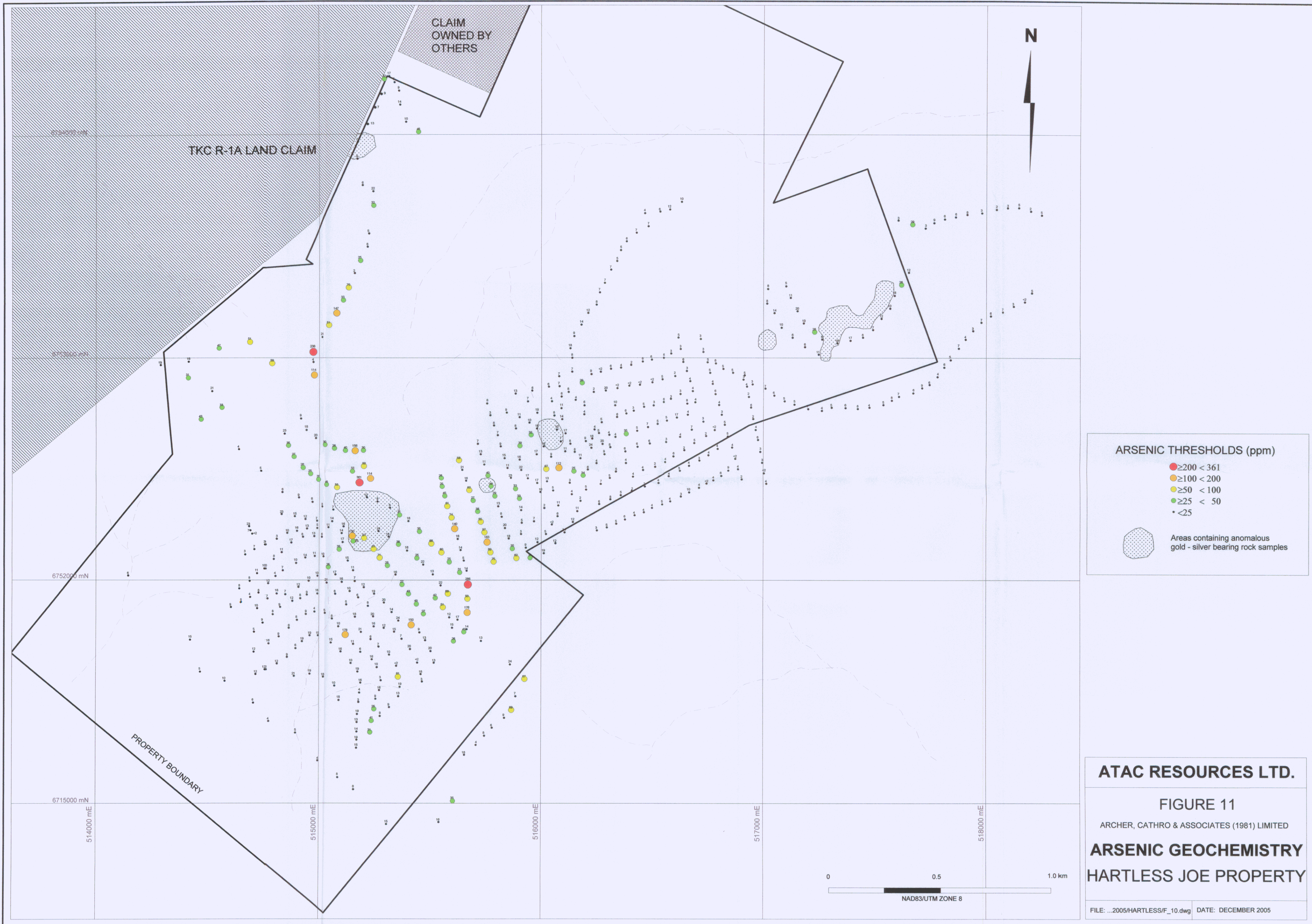
FIGURE 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ANTIMONY GEOCHEMISTRY

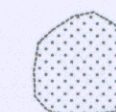
HARTLESS JOE PROPERTY

FILE: ...2005/HARTLESS/F_11.dwg DATE: DECEMBER 2005



ARSENIC THRESHOLDS (ppm)

- ≥200 < 361
- ≥100 < 200
- ≥50 < 100
- ≥25 < 50
- < 25



Areas containing anomalous gold - silver bearing rock samples

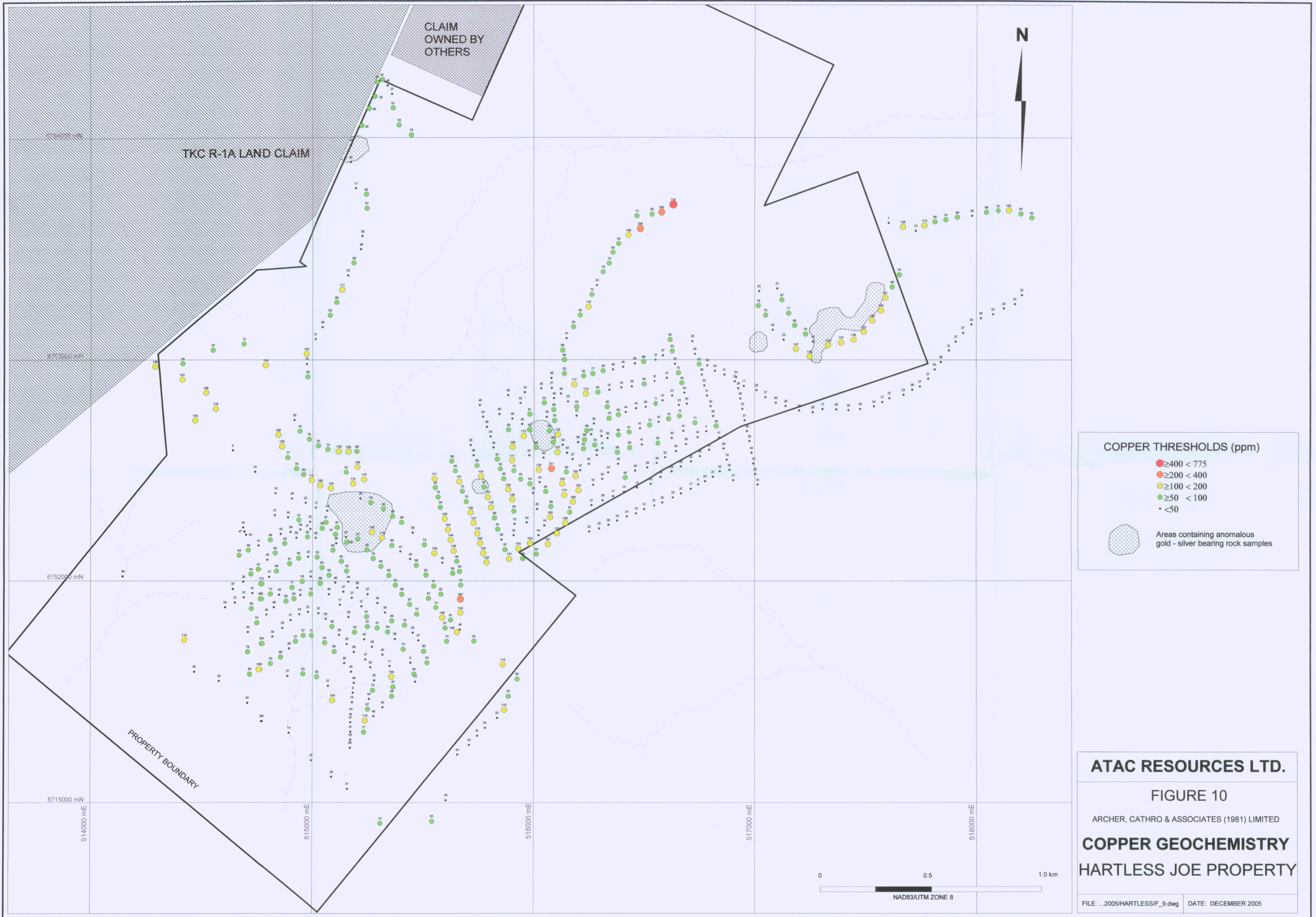
ATAC RESOURCES LTD.

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

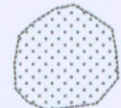
**ARSENIC GEOCHEMISTRY
HARTLESS JOE PROPERTY**

FILE: ...2005/HARTLESS/F_10.dwg DATE: DECEMBER 2005



COPPER THRESHOLDS (ppm)

- $\geq 400 < 775$
- $\geq 200 < 400$
- $\geq 100 < 200$
- $\geq 50 < 100$
- < 50

 Areas containing anomalous gold - silver bearing rock samples

ATAC RESOURCES LTD.

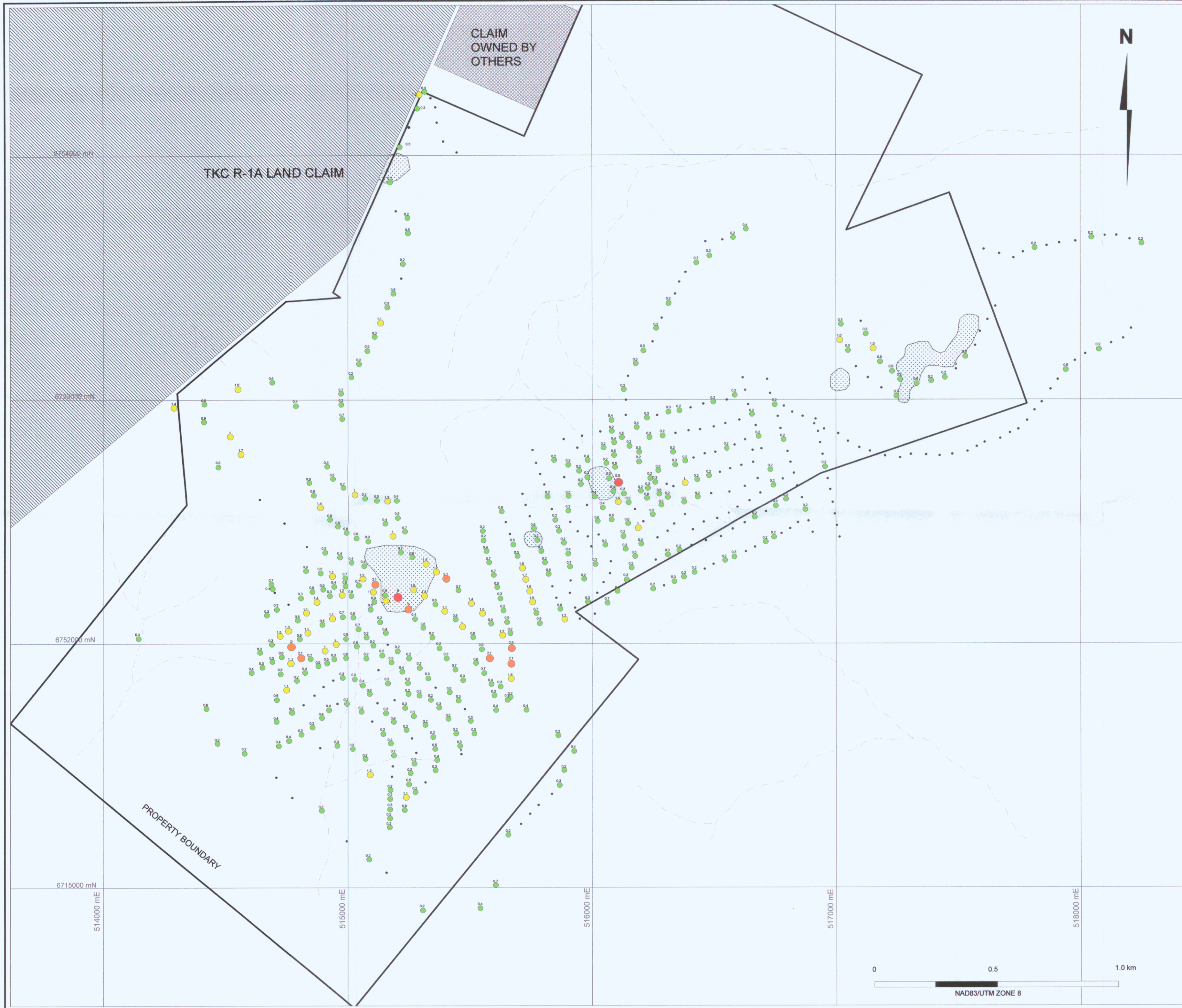
FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER GEOCHEMISTRY

HARTLESS JOE PROPERTY

FILE: ...2005/HARTLESS/F_9.dwg DATE: DECEMBER 2005



SILVER THRESHOLDS (ppm)

- $\geq 4 < 5.5$
- $\geq 2 < 4$
- $\geq 1 < 2$
- $\geq 0.2 < 1$
- < 0.2

Areas containing anomalous gold - silver bearing rock samples

ATAC RESOURCES LTD.

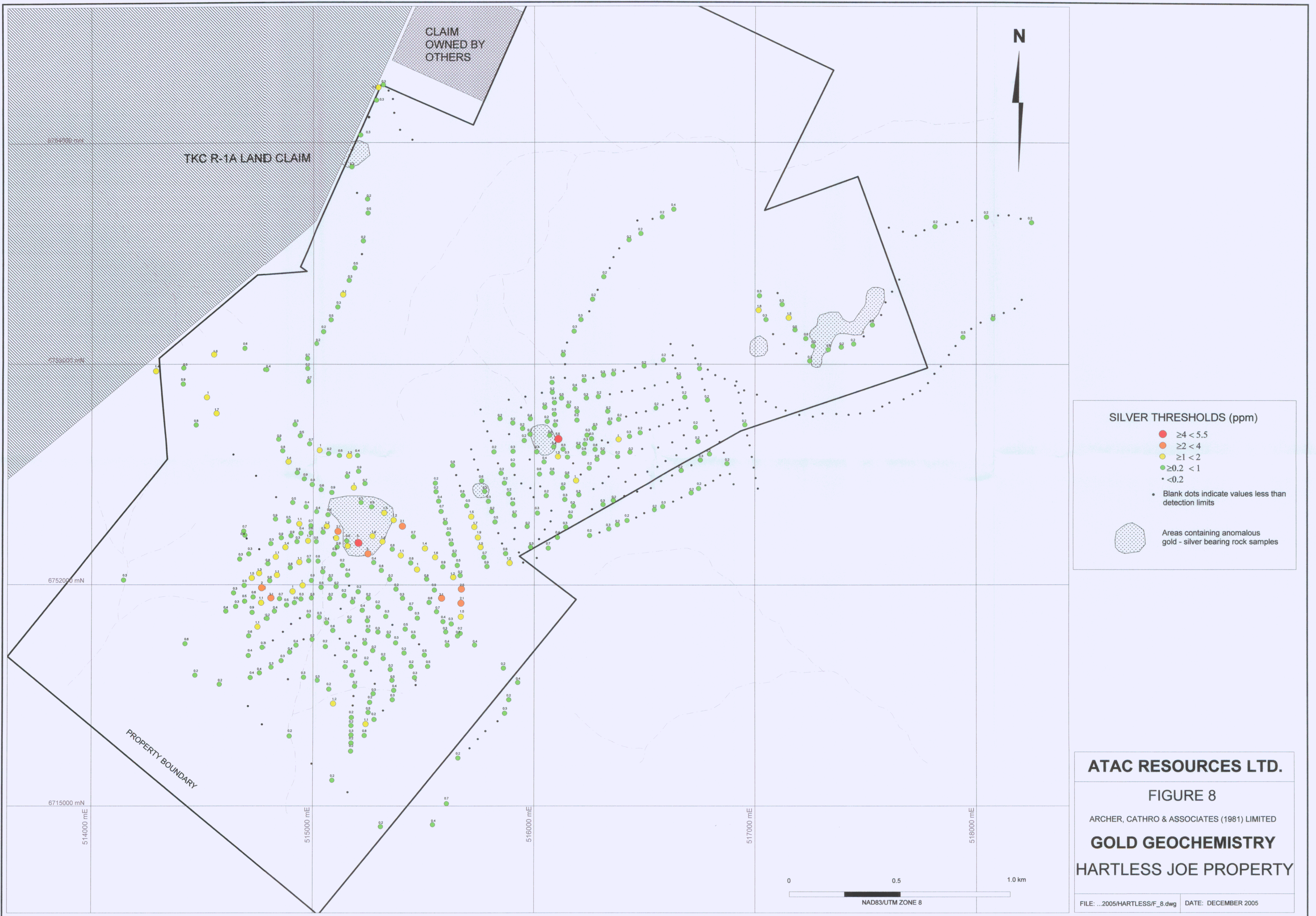
FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER GEOCHEMISTRY

HARTLESS JOE PROPERTY

FILE: ...2005/HARTLESS/F_7.dwg DATE: DECEMBER 2005



SILVER THRESHOLDS (ppm)

- $\geq 4 < 5.5$
- $\geq 2 < 4$
- $\geq 1 < 2$
- $\geq 0.2 < 1$
- < 0.2

• Blank dots indicate values less than detection limits

Areas containing anomalous gold - silver bearing rock samples

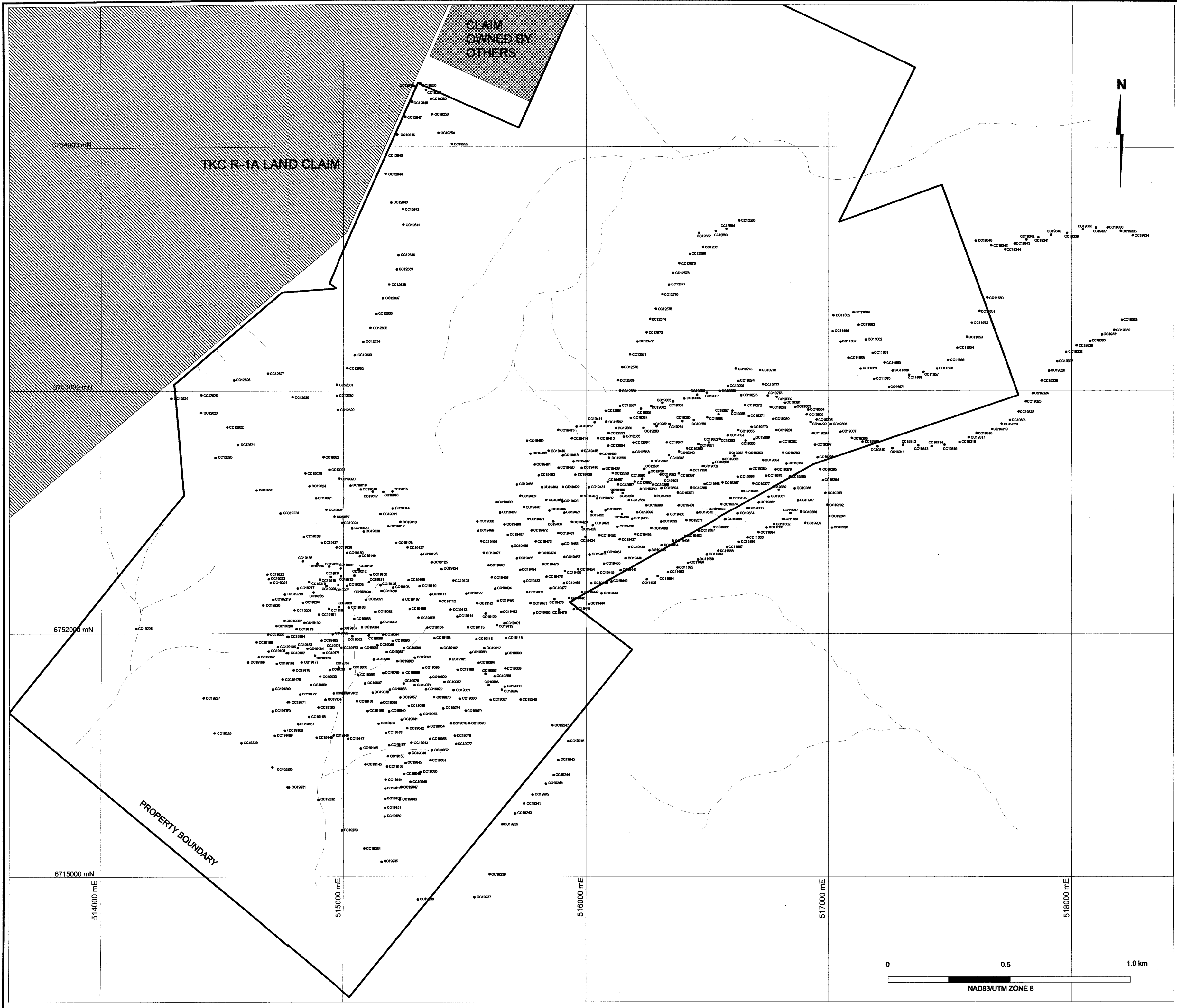
ATAC RESOURCES LTD.

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD GEOCHEMISTRY

HARTLESS JOE PROPERTY



• Soil sample location

ATAC RESOURCES LTD.

FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

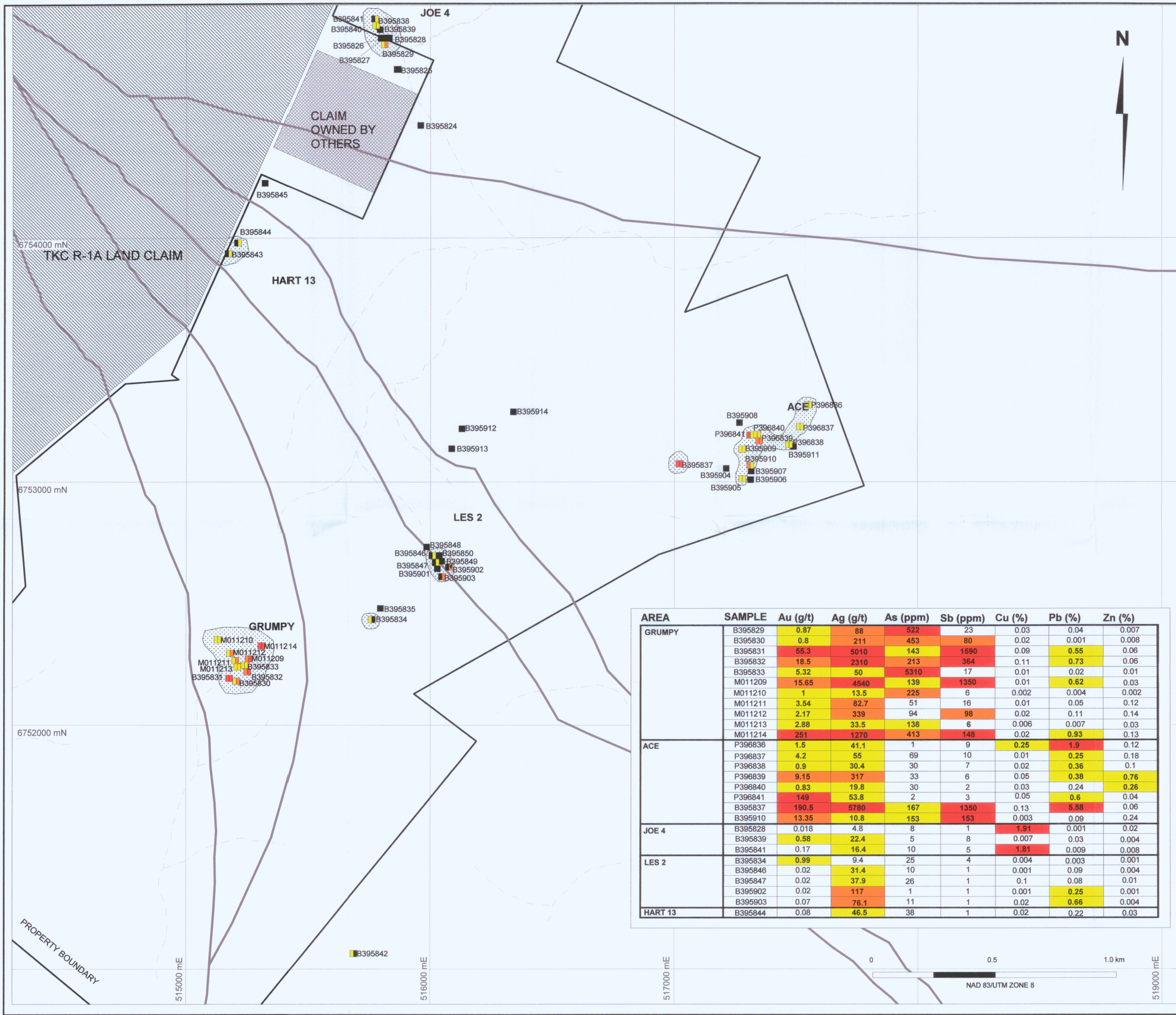
SOIL SAMPLE LOCATION

HARTLESS JOE PROPERTY

0 0.5 1.0 km

NAD83/UTM ZONE 8

2005/F_6/SAMPLE LOCATION.dwg DATE: DECEMBER 2005



AREA	SAMPLE	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
GRUMPY	B395829	0.87	88	522	23	0.03	0.04	0.007
	B395830	0.8	211	453	80	0.02	0.001	0.008
	B395831	55.3	5010	143	1590	0.09	0.55	0.06
	B395832	18.5	2310	213	364	0.11	0.73	0.06
	B395833	5.32	50	5310	17	0.01	0.02	0.01
	M011209	15.65	4540	139	1350	0.01	0.62	0.03
	M011210	1	13.5	225	6	0.002	0.004	0.002
	M011211	3.54	82.7	51	16	0.01	0.05	0.12
	M011212	2.17	339	94	98	0.02	0.11	0.14
	M011213	2.88	33.5	138	6	0.006	0.007	0.03
	M011214	251	1270	413	148	0.02	0.93	0.13
	P396836	1.5	41.1	1	9	0.25	1.9	0.12
	P396837	4.2	55	69	10	0.01	0.25	0.18
	P396838	0.9	30.4	30	7	0.02	0.36	0.1
ACE	P396839	9.15	317	33	6	0.05	0.38	0.76
	P396840	0.83	19.8	30	2	0.03	0.24	0.26
	P396841	149	53.8	2	3	0.05	0.6	0.04
	B395837	190.5	5780	167	1350	0.13	5.58	0.06
	B395910	13.35	10.8	153	153	0.003	0.09	0.24
	JOE 4	B395828	0.018	4.8	8	1	1.91	0.001
B395839		0.58	22.4	5	8	0.007	0.03	0.004
B395841		0.17	16.4	10	5	1.81	0.009	0.008
LES 2	B395834	0.99	9.4	25	4	0.004	0.003	0.001
	B395846	0.02	31.4	10	1	0.001	0.09	0.004
	B395847	0.02	37.9	26	1	0.1	0.08	0.01
	B395902	0.02	117	1	1	0.001	0.25	0.001
HART 13	B395903	0.07	76.1	11	1	0.02	0.66	0.004
	B395844	0.08	46.5	38	1	0.02	0.22	0.03

THRESHOLDS

Au (g/t)	0.5 - 5	6 - 50	>50
Ag (g/t)	10 - 60	61 - 1000	>1000
As (ppm)	100 - 200	201 - 500	>500
Sb (ppm)	25 - 50	50 - 100	>100
Cu (%)	0.25 - 1	>1	
Pb (%)	0.25 - 1	>1	
Zn (%)	0.25 - 1	>1	

GOLD GEOCHEMISTRY
 SILVER GEOCHEMISTRY
 FAULT

ATAC RESOURCES LTD.

FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ROCK SAMPLE LOCATION

HARTLESS JOE PROPERTY

FILE: ...2005/HARTLES/F_14.dwg DATE: DECEMBER 2005

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


Telephone: 604-688-2568

Fax: 604-688-2578

AFFIDAVIT

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

That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the Hart 1-28, Les 1-10 and Joe 1-10
mineral claims on Claim Sheet 105D/15 is accurate.

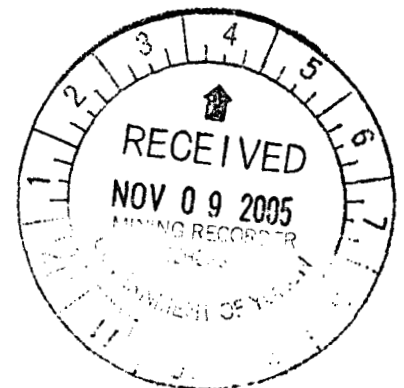

Joan Mariacher

Sworn before me at Vancouver, B.C.

this 8th day of November 2005.



Notary Public, Yukon Territory



Statement of Expenditures
Hart -1-28, Les 1-10 and Joe 1-10 Mineral Claims
November 7, 2005

Labour

B. Wengzynowski – geologist – March to July – 57 1/4 hours at \$70/hr	\$ 4,288.03
H. Smith – field assistant – 13 days July at \$320/day	4,451.20
J. Johnston – field assistant – 6 days July at \$240/day	1,540.80
I. Thiedel – field assistant – 14 days July at \$240/day	3,595.20
L. Corbett – expeditor – 17 3/4 hours June & July at \$60/hr	<u>1,139.55</u>
	15,014.78

Expenses

Field room and board – 36 3/4 days at \$125/day	4,915.31
Capital Helicopters – 12 hours Bell 206B at \$950/hr plus fuel	13,499.53
Heli Dynamics – 2.1 hours Bell 206B at \$900/hr plus fuel	2,022.30
ALS Chemex	<u>12,854.28</u>
	33,291.42
	<u>\$48,306.20</u>

680 samples taken = \$71.04/sample

The following were used on this Certificate of Work:

<u>Claim Name</u>	<u>Number of Samples</u>	<u>Expenditure</u>
Hart 1	53	\$ 3,765.12
2	36	2,557.44
3	7	497.28
7	38	2,699.52
8	44	3,125.76
13	14	994.56
14	7	497.28
20	21	1,491.84
Les 2	43	3,054.72
4	63	4,475.52
Joe 2	1	71.04
4	<u>6</u>	<u>426.24</u>
	333	\$23,656.32

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project HARTLESS JOE PROJECT
 Date JANUARY 1 - APRIL 30, 2001

LABOUR			
Field	Description	Rate	Total
	C. PREMIA - 514 HR AT 30.72/HR FEB		23.04
	D. EATON - 1 HR AT 70/HR MAR		70.00
	B. WENZELNOWSKI - 2 HR AT 70/HR MAR		140.00
	D. EATON - 2 HR AT 70/HR APRIL		140.00
	B. WENZELNOWSKI - 23 3/4 HR AT 70/HR APRIL		1662.50
	M. BUMALA - 1 1/2 HR AT 50/HR		75.00
	M. TURNER - 4 HR AT 50/HR		200.00
	H. SMITH - 4 HR AT 34/HR		136.00
Accounting and Expediting J. Mariacher-			
	hrs at \$58/hr		
	2 FEB		116.00
	2 1/2 MAR		145.00
	1/2 APRIL		29.00
			2736.54
OTHER SERVICES			
	Rent and Board in Whitehorse	days at \$90 / day	
	Field equipment from AC stock		
	Printing 251.10	Photocopies 76 1/2 @ .15 = 35.70	286.80
	Rentals from AC		
	Lanna Courier - 1/2 AT 14.25 + 1 AT 14.85		22.22
			309.02
EXPENSES			
	Petty Cash		
	Telephone		
	JOAN M EXPENSES - 341.25 FI + 80.00 FI		371.25
	1/26 LAHOUSE		100.00
			471.25
Management 6% on Expenses on Field A/C			
			28.27
			0
			28.27
			3545.08
GST (R100247667) 7% on 3545.08			
			248.16
			3793.24

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project **HART PROJECT**
Date **MAY 1 - JULY 31, 1981**

LABOUR			
Field	Description	Amount	
	B. WENZLYNOWSKI - 1 1/2 HRS AT 70/HR MAY	105.00	
	D. EATON - 5 HRS AT 70/HR JULY	350.00	
	B. WENZLYNOWSKI - 30 HRS AT 70/HR JULY	2100.00	
	H. SMITH - 13 DAYS AT 320/DAY	4160.00	
	I. THEISEL - 14 DAYS AT 240/DAY	3360.00	
	J. JOHNSTON - 6 DAYS AT 240/DAY	1440.00	
Accounting and Expediting	J. Mariacher - 154 hrs at \$58/hr MAY 1 - JUNE + 14 JULY	101.50 130.50	
	L. COLBETT - 3 HRS AT 60/HR JUNE + 14 1/2 JULY	1065.00	
OTHER SERVICES	J. THOMAS - GRASSH - 6 1/4 HRS AT 18/HR	125.00	12287.00
Food and Board in Whitehorse	1 1/2 days at \$90/day	1125.00	
Field equipment from AC stock	39 DAYS AT 50/DAY + 97.50	2047.50	
Printing	Photocopies 2047 @ .15	31.20	
Rentals from AC			
	2 Rooms - 1 1/2 AT 14.85 + 1 AT 20	42.28	3245.98
EXPENSES			
Petty Cash	16.00 DI	16.00	
Telephone	14.47 + 15.95	30.42	
AIR NORTH		13.41	
MILK BASINS		8.34	
RIVERDALE SUPER A		990.84	
CAPITAL HELICOPTERS	- 11003.28 + 1613.10	12616.38	
HELI DYNAMICS		1870.00	
MACPHELAN RENTALS	- 9.35 DI + 77.49	86.84	
MACK FIREWOOD		4.67	
HOME HARDWARE		15.01	
GREYHOUND CARRIER		342.20	
NORTH GO VETRO		279.38	
JOAN M EXPENSES		55.63	16347.12
Management	6% on Expenses on Field A/C	980.95 771.24	1752.19
			34334.31
GST (R100247667)	7% on 34334.41		2403.40
			36737.71



CHARTER AND CONTRACT SERVICE
 #3 - 25 Pilgrim Pl. Whitehorse, Yukon Y1A 6E6
 Phone: (867) 668-6200 Fax: (867) 668-6201
 capitalheli@polarcom.com

FLIGHT TICKET
 INVOICE No 10115

GST # R 899587984

CHARTERER <i>Robbie Lewis Archer Cathro</i>		PILOT <i>Delmar Washington</i>		DATE <i>July 19/05</i>	
		SIGNATURE		AIRCRAFT <i>GAHF</i>	
		CHEQUE	CASH	CHARGE	
				TYPE <i>BH06</i>	
TELEPHONE	POSTAL CODE	PURCHASE ORDER NO.		BASE <i>Whse</i>	
CUSTOMER FUEL			FLIGHT ITINERARY		PASS
LITRES FROM			<i>July 17/05 Whse → Joe Mt → mob camp in → Whse</i>		TIME <i>2:6</i>
LITRES FROM			<i>July 18/05 Whse → Joe Mt Local → Whse</i>		<i>3:2 (2)</i>
LITRES FROM			<i>July 19/05 Whse - Joe Mt → Reeci-Silhn → Whse</i>		<i>4:1 (3)</i>
CAPITAL FUEL					
<i>866.4</i>	LITRES FROM	<i>Whse</i>	@ \$ <i>953.04</i>		
	LITRES FROM		@ \$		
	LITRES FROM		@ \$		
OTHER CHARGES	DESCRIPTION	AMOUNT			
		RATE PER HOUR \$ <i>950.00</i>		TOTAL	<i>9:9</i>
		PASSENGERS			
PILOT EXPENSES	DESCRIPTION	AMOUNT		FLIGHT <i>698.35</i>	\$ <i>9405.00</i>
				FUEL <i>66.71</i>	\$ <i>953.04</i>
				OTHER	\$ <i>10358.04</i>
				GST	\$ <i>725.06</i>
AUTHORIZED BY (print)				TOTAL	\$ <i>11083.10</i>
SIGNATURE X	<i>R. Lewis</i>				

Willow Printers Ltd.



CHARTER AND CONTRACT SERVICE
 #3 - 25 Pilgrim Pl. Whitehorse, Yukon Y1A 6E6
 Phone: (867) 668-6200 Fax: (867) 668-6201
 capitalheli@polarcom.com

FLIGHT TICKET
 INVOICE No 10116

GST # R 899587984

CHARTERER <i>Archer Cathro</i>		PILOT <i>Delmar Washington</i>		DATE <i>July 21/05</i>		
		SIGNATURE		AIRCRAFT <i>GAHF</i>		
		CHEQUE	CASH	CHARGE	TYPE	
TELEPHONE	POSTAL CODE	PURCHASE ORDER NO.		BASE		
CUSTOMER FUEL		FLIGHT ITINERARY			PASS	TIME
LITRES FROM		<i>Whse → Joe Mt. Camp (setout) - whse</i>				<i>0:6</i>
LITRES FROM						
CAPITAL FUEL						
<i>68.4</i>	LITRES FROM <i>Whse</i>	@ \$ <i>75.24</i>				
	LITRES FROM	@ \$				
	LITRES FROM	@ \$				
OTHER CHARGES		DESCRIPTION	AMOUNT			
		RATE PER HOUR	\$ <i>950.00</i>	TOTAL	<i>0:6</i>	
PILOT EXPENSES		DESCRIPTION	AMOUNT	PASSENGERS		
				FLIGHT	\$ <i>39.90</i>	
				FUEL	\$ <i>5.27</i>	
				OTHER	\$ <i>648.24</i>	
				GST	\$ <i>45.17</i>	
AUTHORIZED BY (print)				TOTAL	\$ <i>690.41</i>	
SIGNATURE X. <i>B. Weiss</i>		<i>HARTLES JOE.</i>				

Handwritten notes and signatures:
 \$1097 ✓
 [Signature]

Willow Printers Ltd.



CHARTER AND CONTRACT SERVICE
 #3 - 25 Pilgrim Pl. Whitehorse, Yukon Y1A 6E6
 Phone: (867) 668-6200 Fax: (867) 668-6201
 capitalheli@polarcom.com

FLIGHT TICKET
 INVOICE No 10119

GST # R 899587984

CHARTERER Archer Cathro		PILOT Delmar Washington		DATE July 25/05	
		SIGNATURE		AIRCRAFT GMF	
		CHEQUE	CASH	CHARGE	TYPE BHO6
TELEPHONE	POSTAL CODE	PURCHASE ORDER NO.		BASE Whse	
CUSTOMER FUEL			FLIGHT ITINERARY		PASS TIME
LITRES FROM			July 22 - Whse → Ice Mt → Camp - set out - whse		0.6
LITRES FROM			July 23 - Whse → Ice → Recci - Steak Lines → set out → whse		0.9
CAPITAL FUEL					
171	LITRES FROM Whse	@ \$ 188.10			
	LITRES FROM	@ \$			
	LITRES FROM	@ \$			
OTHER CHARGES	DESCRIPTION	AMOUNT			
			RATE PER HOUR \$ 950.00	TOTAL	1.5
PILOT EXPENSES			PASSENGERS	FLIGHT	\$ 1425.00
				FUEL	\$ 188.10
				OTHER	\$ 763.10
				GST	\$ 112.92
AUTHORIZED BY (print)				TOTAL	\$ 1726.02
SIGNATURE Rennu P.					

Heli Dynamics Ltd.

Heli Dynamics Ltd.

INVOICE No.

5754



Helicopter Charter Services

Phone : (867) 668-3536 or 667-4971

Fax : (867) 668-5637

P.O. Box 4

Whitehorse, Yukon Y1A 5X9

E-mail: helidyn@internorth.com

Charterer Billing Address <u>Archer Cathro</u>	Customer P.O. # <u>Hartles Joe.</u>
---	--

Flight Authorized By: <u>Heather Smith</u>

Aircraft : <u>GAHP</u>	Type: <u>Bell 206</u>	Rate/Hour : <u>900.-</u>	Pilot : <u>Greg McAllister</u>
------------------------	-----------------------	--------------------------	--------------------------------

Date : <u>29/01/2005</u>	Fuel : [] HD [X] Customer	Base : <u>Whitehorse</u>
--------------------------	----------------------------	--------------------------

From :	To :	Time Up	Time Down	Flight Time
<u>Whitehorse</u>	<u>(Joe Mountain camp) Whitehorse</u>	<u>0926</u>	<u>0925</u>	<u>.60</u>
<u>Whitehorse</u>	<u>(Joe Mountain camp Sling load) Whitehorse</u>	<u>0950</u>	<u>1030</u>	<u>.90</u>
<u>Whitehorse</u>	<u>(Joe Mountain camp) Whitehorse</u>	<u>1035</u>	<u>1111</u>	<u>.60</u>

Fuel Costs/Litre \$	TOTAL REV HOURS	<u>2.10</u>
FUEL @ Litres/hr		

SUMMARY	AMOUNT	G.S.T.	TOTAL
<u>2.10</u> Hours FLYING	<u>1890</u>	<u>132.30</u>	<u>2022.30</u>
Hours FUEL & OIL			
Expenses			
Misc			
TOTALS			
GRAND TOTAL			<u>2022.30</u>

Payments must be made monthly on accounts, or 2% interest will be charged.
We appreciate your business.

41



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue
North Vancouver BC V7J 2C1

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




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



INVOICE NUMBER 1252943

BILLING INFORMATION

Certificate: **VA05062479**
Account: **RCM**
Date: **10-AUG-2005**
Project: Hartles Joe 
P.O. No.:
Quote:
Terms: **Net 30 Days** C1
Comments:

ANALYSED FOR

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
19	PREP-31	Crush, Split, Pulverize	4.50	85.50
36.86	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.23	8.48
19	PGM-ICP23	Pt, Pd, Au 30g FA ICP	12.19	231.61
3	Au-GRA21	Au 30g FA-GRAV finish	11.25	33.75
19	ME-ICP41	34 Element Aqua Regia ICP-AES	4.88	92.72
19	GEO-AR01	Aqua regia digestion	1.88	35.72
2	ASY-AR01	Assay Aqua Regia Digestion	3.38	6.76
1	Cu-AA46	Ore grade Cu - aqua regia/AA	2.81	2.81
1	Pb-AA46	Ore grade Pb - aqua regia/AA	2.81	2.81
4	Ag-GRA21	Ag 30g FA-GRAV finish	10.50	42.00

SUBTOTAL (CAD) \$ 564.66

R100938885 GST \$ 39.53

TOTAL PAYABLE (CAD) \$ 604.19

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

Payment may be made by: Cheque or Bank Transfer

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

Please Remit Payments To :
ALS Chemex

212 Brooksbank Avenue
North Vancouver BC V7J 2C1



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C/O ARCHER, CATHRO & ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8



INVOICE NUMBER 1252948

BILLING INFORMATION	
Certificate:	VA05062478
Account:	RCM
Date:	8-AUG-2005
Project:	Hartles Joe <input checked="" type="checkbox"/>
P.O. No.:	
Quote:	
Terms:	Net 30 Days C1
Comments:	

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
34	PREP-41	Dry, Sieve (180 um) Soil	0.94	31.96
6.62	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.31	8.67
34	PGM-ICP23	Pt, Pd, Au 30g FA ICP	12.19	414.46
34	ME-ICP41	34 Element Aqua Regia ICP-AES	4.88	165.92
34	GEO-AR01	Aqua regia digestion	1.88	63.92

SUBTOTAL (CAD) \$ 684.93

R100938885 GST \$ 47.95

TOTAL PAYABLE (CAD) \$ 732.88

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

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.
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 Address: Vancouver, BC, CAN
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C/O ARCHER, CATHRO & ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

INVOICE NUMBER 1254927

BILLING INFORMATION	
Certificate:	VA05058236
Account:	RCM
Date:	17-AUG-2005
Project:	Hartles Joe <i>fh</i>
P.O. No.:	
Quote:	
Terms:	Net 30 Days C1
Comments:	

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
263	PREP-41	Dry, Sieve (180 um) Soil	0.94	247.22
47.34	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.31	62.02
260	Au-AA23	Au 30g FA-AA finish	9.00	2,340.00
263	ME-ICP41	34 Element Aqua Regia ICP-AES	4.88	1,283.44
263	GEO-AR01	Aqua regia digestion	1.88	494.44

SUBTOTAL (CAD) \$ 4,427.12

R100938885 GST \$ 309.90

TOTAL PAYABLE (CAD) \$ 4,737.02

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

Payment may be made by: Cheque or Bank Transfer

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

Please Remit Payments To :
ALS Chemex
 212 Brooksbank Avenue
 North Vancouver BC V7J 2C1



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C/O ARCHER, CATHRO & ASSOCIATES (1981)
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VANCOUVER BC V6B 1L8

INVOICE NUMBER 1254932

BILLING INFORMATION	
Certificate:	VA05063326
Account:	RCM
Date:	18-AUG-2005
Project:	Hartles Joe <i>yt</i>
P.O. No.:	
Quote:	
Terms:	Net 30 Days C1
Comments:	

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
1	BAT-01	Administration Fee	22.50	22.50
29	PREP-31	Crush, Split, Pulverize	4.50	130.50
64.74	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.23	14.89
29	Au-AA23	Au 30g FA-AA finish	9.00	261.00
2	Au-GRA21	Au 30g FA-GRAV finish	11.25	22.50
29	ME-ICP41	34 Element Aqua Regia ICP-AES	4.88	141.52
29	GEO-AR01	Aqua regia digestion	1.88	54.52
2	Ag-AA46	Ore grade Ag - aqua regia/AA	2.81	5.62
4	ASY-AR01	Assay Aqua Regia Digestion	3.38	13.52
1	Cu-AA46	Ore grade Cu - aqua regia/AA	2.81	2.81
2	Pb-AA46	Ore grade Pb - aqua regia/AA	2.81	5.62
1	Ag-GRA21	Ag 30g FA-GRAV finish	10.50	10.50

SUBTOTAL (CAD) \$ 685.50

R100938885 GST \$ 47.99

TOTAL PAYABLE (CAD) \$ 733.49

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

Payment may be made by: Cheque or Bank Transfer

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

Please Remit Payments To :
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VANCOUVER BC V6B 1L8

INVOICE NUMBER 1255832

BILLING INFORMATION	
Certificate:	VA05063480
Account:	RCM
Date:	14-AUG-2005
Project:	Hartles Joe <i>JK</i>
P.O. No.:	
Quote:	
Terms:	Net 30 Days C1
Comments:	

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
232	PREP-41	Dry, Sieve (180 um) Soil	0.94	218.08
42.82	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.31	56.09
229	Au-AA23	Au 30g FA-AA finish	9.00	2,061.00
232	ME-ICP41	34 Element Aqua Regia ICP-AES	4.88	1,132.16
232	GEO-AR01	Aqua regia digestion	1.88	436.16

SUBTOTAL (CAD) \$ 3,903.49

R100938885 GST \$ 273.24

TOTAL PAYABLE (CAD) \$ 4,176.73

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

Payment may be made by: Cheque or Bank Transfer

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

Please Remit Payments To :
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 212 Brooksbank Avenue
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VANCOUVER BC V6B 1L8



INVOICE NUMBER 1255837

BILLING INFORMATION	
Certificate:	VA05063481
Account:	RCM
Date:	15-AUG-2005
Project:	Hartles Joe 
P.O. No.:	
Quote:	
Terms:	Net 30 Days C1
Comments:	

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
103	PREP-41	Dry, Sieve (180 um) Soil	0.94	96.82
21.02	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.31	27.54
100	Au-AA23	Au 30g FA-AA finish	9.00	900.00
3	Au-AA23	Au 30g FA-AA finish	9.00	27.00
103	ME-ICP41	34 Element Aqua Regia ICP-AES	4.88	502.64
103	GEO-AR01	Aqua regia digestion	1.88	193.64

SUBTOTAL (CAD) \$ 1,747.64

R100938885 GST \$ 122.33

TOTAL PAYABLE (CAD) \$ 1,869.97

To: **ATAC RESOURCES LTD.**
 ATTN: ACCOUNTS PAYABLE
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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 VANCOUVER BC V6B 1L8

Payment may be made by: Cheque or Bank Transfer

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

Please Remit Payments To :
ALS Chemex

212 Brooksbank Avenue
 North Vancouver BC V7J 2C1