ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 -510 West Hastings Street
Vancouver, B.C. V6B 1L8
Telephone: 604-688-2568 Fax: 604-688-2578

ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING, GEOPHYSICAL SURVEYING, TRENCH RECLAMATION AND DIAMOND DRILLING

at the

DAN MAN PROPERTY

DM 1-6	YC83307-YC83312
21-114	YC83327-YC83420
115-124	YD10495-YD10504
125-427	YD60615-YD60917
428-506	YD60918-YD60996
507F	YD60997
508-544	YD60998-YD61034
545F	YD61035
546-578	YD61036-YD61068

NTS 115J/14 and 115O/03
Latitude 62°57'N; Longitude 139°20'W

located in the

Whitehorse and Dawson Mining Districts
Yukon Territory

prepared by
Archer, Cathro & Associates (1981) Limited

for

ARCUS DEVELOPMENT GROUP INC.
and
ATAC RESOURCES LTD.

by
H. Smith, B.Sc., P.Geo.
May 2012

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INTRODUCTION

The Dan Man property lies within the Dawson Range Gold Belt in western Yukon. The property hosts anomalous gold-in-soil geochemistry within the same favourable geological package as the adjacent Coffee property, which is owned by Kaminak Gold Corporation. The Coffee property hosts nine separate gold zones within a five by fifteen kilometre area, all of which were discovered by drilling soil geochemical anomalies.

Work conducted during the 2011 exploration program on the Dan Man property completed earn-in requirements under an option agreement between Arcus Development Group Inc. and ATAC Resources Ltd. Thus, the property is now 50% owned by both companies under terms of a joint venture agreement. Arcus will act as the joint venture operator.

This report describes geochemical sampling, diamond drilling and a helicopter-borne geophysical survey that were completed in 2011. The fieldwork was performed between July 20 and August 31 by Archer, Cathro & Associates (1981) Limited and the geophysical survey was conducted from March 16 to April 26 by Precision GeoSurveys Inc. The author directed and participated in the program, and her Statement of Qualifications is in Appendix I.

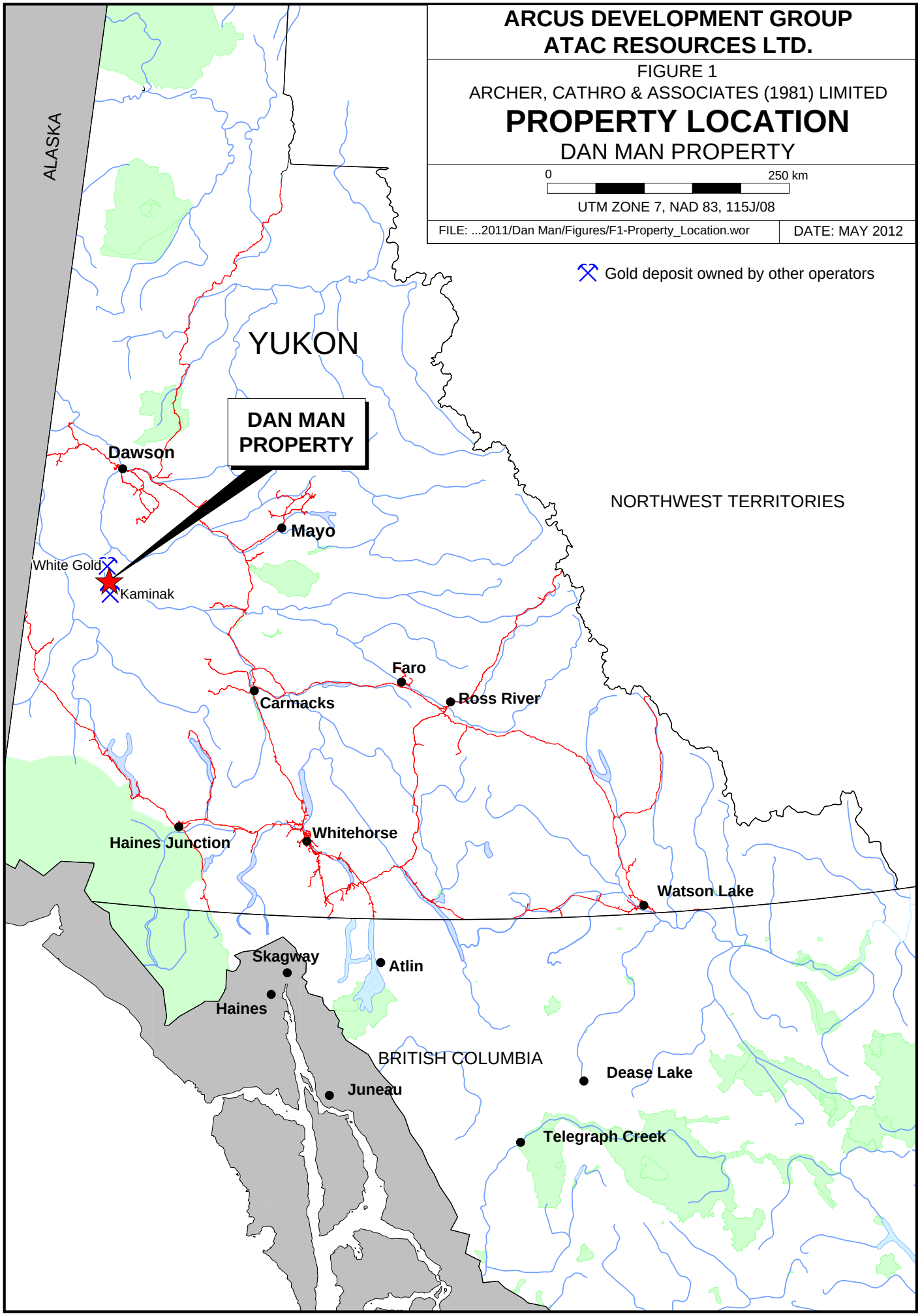
PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Dan Man property comprises 564 contiguous mineral claims within the drainages of Dan Man, Halfway and Kirkman creeks. The property lies on both sides of the Yukon River. The claims are located at latitude 62°57'N and longitude 139°20'W on NTS map sheets 115J/14 and 115O/03 as shown on Figure 1. They are registered with the Dawson and Whitehorse Mining Recorders in the name of Archer Cathro, which holds them in trust for ATAC and Arcus. Claim data are listed below while the locations of individual claims are illustrated on Figure 2.

Claim Name	Grant Number	Expiry Date*
DM 1-6	YC83307-YC83312	April 29, 2026
21-114	YC83327-YC83420	April 29, 2026
115-124	YD10495-YD10504	April 29, 2023
125-427	YD60615-YD60917	April 29, 2023
428-506	YD60918-YD60996	April 29, 2015
507F	YD60997	April 29, 2015
508-544	YD60998-YD61034	April 29, 2015
545F	YD61035	April 29, 2015
546-578	YD61036-YD61068	April 29, 2015

*Expiry dates include 2011 work which has been filed for assessment credit but not yet accepted.

In April, Precision's geophysical crew stayed in Dawson City and flew daily to the survey area. Fuel for the survey was cached at the Thistle Creek airstrip, which lies about 15 km northeast of the Dan Man property.


ARCUS DEVELOPMENT GROUP
ATAC RESOURCES LTD.
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY LOCATION
DAN MAN PROPERTY
0
250 km
UTM ZONE 7, NAD 83, 115J/08
FILE: ...2011/Dan Man/Figures/F1-Property_Location.wor
DATE: MAY 2012
Gold deposit owned by other operators
ALASKA
YUKON
DAN MAN PROPERTY
Dawson
Mayo
White Gold
Kaminak
NORTHWEST TERRITORIES
Faro
Carmacks
Ross River
Haines Junction
Whitehorse
Watson Lake
Skagway
Atlin
Haines
BRITISH COLUMBIA
Dease Lake
Juneau
Telegraph Creek

T.N.
1°33.6'
22°48'
Grid north
Magnetic north
Annual change decreasing 23.2'

575000 mE
580000 mE
585000 mE
590000 mE
6985000mN
6980000mN
6975000mN

PROPERTY BOUNDARY

DM 578 YD61068
DM 577 YD61067
DM 576 YD61066
DM 578 YD61065
DM 546 YD61036
DM 514 YD61004
DM 519 YD61003
DM 517 YD61002
DM 511 YD61001
DM 510 YD61000
DM 509 YD60992
DM 482 YD60972
DM 470 YD60960
DM 469 YD60959
DM 467 YD60957
DM 463 YD60953
DM 465 YD60955
DM 439 YD60929
DM 438 YD60928
DM 433 YD60923
DM 435 YD60925
DM 428 YD60918
DM 115 YD10495
DM 116 YD10496
DM 117 YD10497
DM 118 YD10498
DM 119 YD10499
DM 120 YD10500
DM 121 YD10501
DM 122 YD10502
DM 123 YD10503
DM 124 YD10504
DM 151 YD60641
DM 150 YD60640
DM 147 YD60637
DM 145 YD60635
DM 143 YD60633
DM 141 YD60631
DM 139 YD60629
DM 137 YD60627
DM 135 YD60625
DM 133 YD60623
DM 131 YD60621
DM 126 YD60616
DM 127 YD60617

Trenching Area

ARCUS DEVELOPMENT GROUP INC.
ATAC RESOURCES LTD.

FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS

DAN MAN PROPERTY

0 1 2.5 km

UTM ZONE 7, NAD 83, 115J/14 and 115O/03

FILE:...2011/Dan Man/Figures/F2-Claim_Locations.wor

DATE: May 2012

The 2011 field work was conducted from a tent camp constructed by Arcus in the headwaters of Kirkman Creek (Figure 2). This camp housed drill and field crews working on Arcus' Touleary and Dan Man properties.

Two airstrips were used during the exploration season – Kirkman and Thistle – because large aircrafts cannot land at the Kirkman airstrip. Mobilization of crew and gear was performed by three fixed wing airplanes. A Twin Otter operated by Alcan Air of Whitehorse was used to mobilize lumber, camp gear and a diamond drill to the Thistle airstrip from the Dawson City Airport. An Islander operated by Great River Aviation from its base at the Dawson City Airport was used to ferry supplies and samples to and from the Kirkman airstrip. A Skyvan operated by Summit Air Charters Limited Partnership was used for demobilization of the diamond drill from the Thistle airstrip to the Dawson City Airport.

A Hughes 500D helicopter operated by Fireweed Helicopters Ltd. was on contract during the exploration program. The helicopter was used to move gear between the airstrips, camp and drill areas. It was also used for daily crew changes and drill moves.

HISTORY

There is no public record of previous mineral exploration in the areas covered by the Dan Man property; however, reconnaissance-scale exploration has been done by various parties. ATAC staked the property in September 2008 after reviewing a non-public domain database owned by Archer Cathro.

In 1980, Archer Cathro performed regional exploration in the Dawson Range district for the NAT Joint Venture (NAT JV), which comprised Chevron Canada Limited and Armco Mineral Exploration Ltd. The NAT JV program involved reanalyses of splits from over 5000 previously collected samples for gold, silver, arsenic and lead, plus follow up geochemical sampling (Archer and Onasick, 1980). A number of samples were collected from the current Dan Man property. These samples returned background to moderately anomalous values for gold-in-silt (up to 40 ppb) and background to weakly anomalous values for gold-in-soil (up to 20 ppb).

In early summer 2009, Arcus optioned the Dan Man property from ATAC. Work performed in 2009 included geochemical sampling and prospecting (Smith, 2009). A total of 46 rock and 617 soil samples were collected for analysis. Results from this work were encouraging. The best rock sample returned 1.68 g/t gold and 236 ppm arsenic. Soil sampling identified two primary zones (Kambaa and Kwazulu). The Kambaa Zone lies in the south-central part of the property and comprises a 200 m wide by 600 m long area of moderately to strongly anomalous gold (up to 132 ppb), arsenic (up to 141 ppm) and antimony (up to 13 ppm) values. The Kwazulu Zone lies west of the Kambaa Zone and hosts weakly to strongly elevated gold values (up to 74 ppb) and weakly to moderately anomalous arsenic (up to 59 ppm) and background antimony values.

In summer 2010, Arcus expanded the Dan Man property based on positive early-season drill results reported by Kaminak. The work performed in 2010 comprised geochemical sampling and excavator trenching. A total of 258 soil samples were collected from the Dan Man claims on the north side of the Yukon River. The soil samples yielded background to moderately anomalous

results for gold, arsenic and antimony, with peak values of 44 ppb gold, 70 ppm arsenic and 8 ppm antimony. South of the Yukon River, three trenches were excavated over a total of 598 m (Figure 2). These trenches were designed to test the Kambaa Zone; however, due to permafrost the trenches failed to reach bedrock and the core of the zone was not tested. Composite chip samples of rock and soil were collected across five metre intervals from trench floors. The best sample returned 0.12 g/t gold, 883 ppm arsenic and 59 ppm antimony (Smith, 2011).

GEOMORPHOLOGY

The Dan Man property is located in part of the Dawson Range that escaped Pleistocene glaciation and consequently, the landscape is mature with dendritic drainages forming radial fans off the flanks of upland domes.

The property is characterized by gentle to moderate relief on the north and south sides of the Yukon River. Local elevations range from 500 to 1250 m above sea level. The higher parts of the property are vegetated with scattered deciduous and evergreen trees, scrub brush and a thin moss cover. Lower elevations support a mixture of deciduous and evergreen forest with thick buckbrush-, willow- and moss- covered slopes. No part of the property is above treeline.

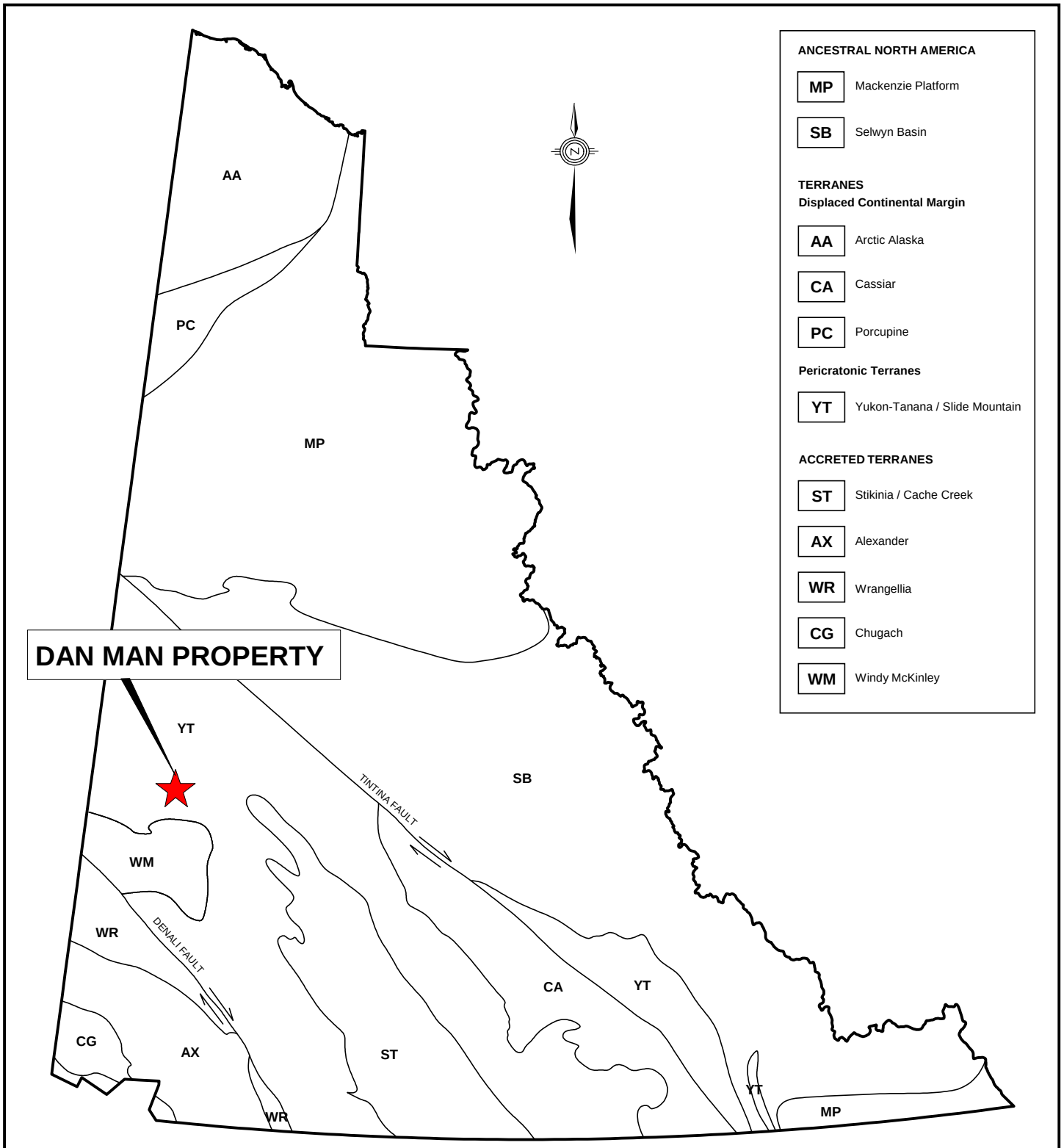
There is little outcrop on the property, except on the north-facing slopes flanking Halfway Creek where bedrock exposures are found.

Soil profiles in the Dawson Range are complex compared to most other places in Yukon. Due to the absence of glaciation, ridges and spines are deeply weathered and often leached. On hillsides and valley bottoms, the soil profile from surface to bedrock typically consists of the following: a layer of organic matter, which ranges from 10 to 50 cm thick; a layer of volcanic ash from the Mount Churchill eruption, which varies from 0 to 20 cm thick; a layer comprised of loess mixed with soliflucted B and C-horizon residual soil, which ranges from 0 to more than 100 cm thick; and a layer of C-horizon residual soil (Bond, 2007).

All creeks draining the property flow directly into the Yukon River.

REGIONAL GEOLOGY

The Dan Man property lies within the Yukon-Tanana Terrane (YTT) approximately 110 km southwest of the Tintina Fault (Figure 3). YTT comprises a variety of Late Devonian to Early Mississippian metavolcanic and metasedimentary rocks, and represents both arc and back-arc environments (Colpron et al., 2006; Piercey et al., 2006). The Tintina Fault is a transcurrent structure that experienced about 450 km of dextral strike-slip movement during the Eocene. In 2003, Gordey and Makepeace compiled regional mapping performed by the Yukon Geological Survey (YGS) to create the geology as seen on Figure 4. Table I contains a brief summary of the main lithologies in the area.



ARCUS DEVELOPMENT GROUP
ATAC RESOURCES LTD.

FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING

DAN MAN PROPERTY

0 200 km

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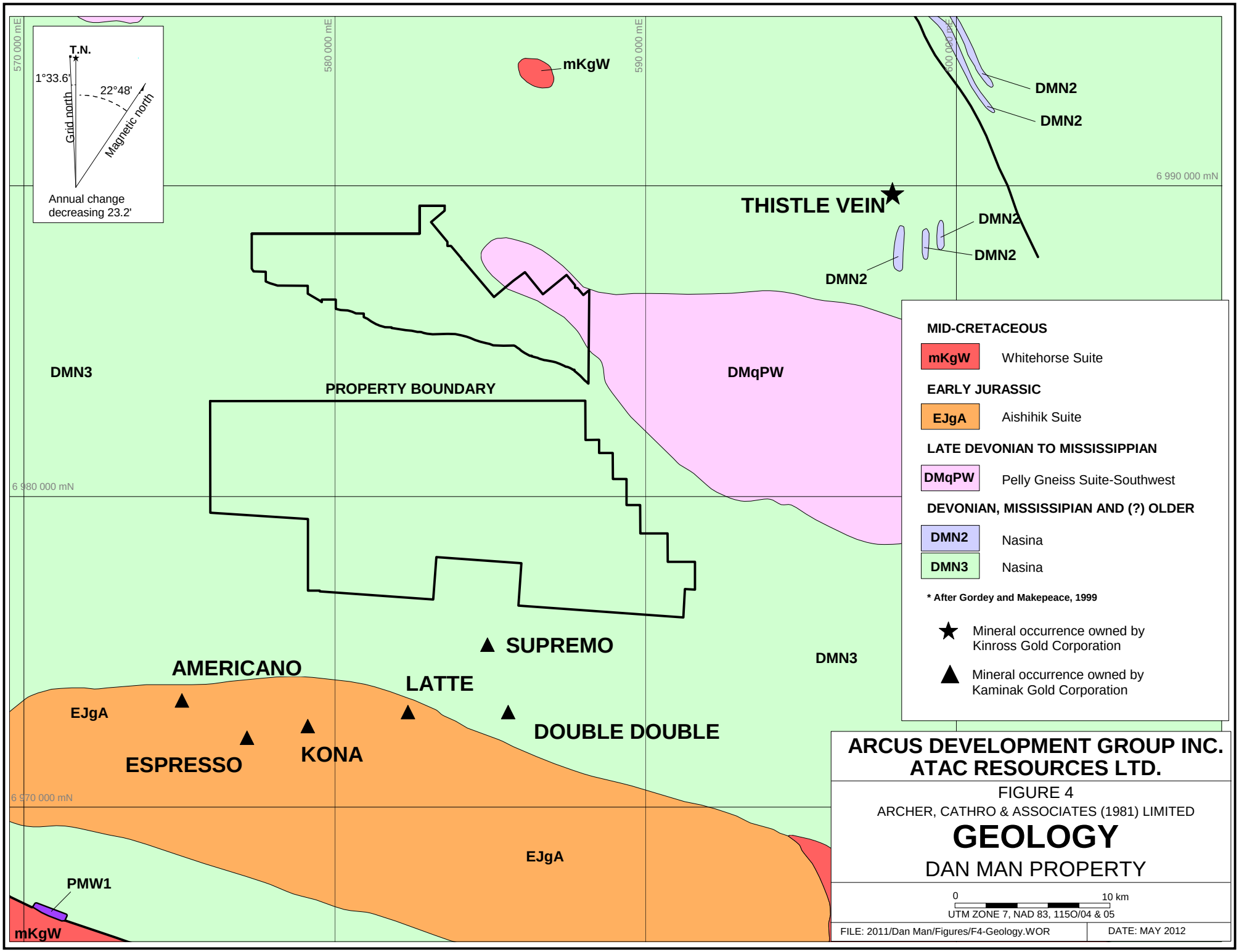

T.N.
1°33.6'
22°48'
Grid north
Magnetic north
Annual change
decreasing 23.2'
570 000 mE
580 000 mE
590 000 mE
600 000 mE
6 990 000 mN
6 980 000 mN
6 970 000 mN
mKgW
DMN2
DMN2
THISTLE VEIN
DMN2
DMN2
DMN2
DMN3
PROPERTY BOUNDARY
DMqPW
SUPREMO
DMN3
AMERICANO
LATTE
EJgA
DOUBLE DOUBLE
ESPRESSO
KONA
EJgA
PMW1
mKgW
MID-CRETACEOUS
mKgW Whitehorse Suite
EARLY JURASSIC
EJgA Aishihik Suite
LATE DEVONIAN TO MISSISSIPPIAN
DMqPW Pelly Gneiss Suite-Southwest
DEVONIAN, MISSISSIPIAN AND (?) OLDER
DMN2 Nasina
DMN3 Nasina
* After Gordey and Makepeace, 1999
Mineral occurrence owned by Kinross Gold Corporation
Mineral occurrence owned by Kaminak Gold Corporation
ARCUS DEVELOPMENT GROUP INC.
ATAC RESOURCES LTD.
FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GEOLOGY
DAN MAN PROPERTY
0
10 km
UTM ZONE 7, NAD 83, 115O/04 & 05
FILE: 2011/Dan Man/Figures/F4-Geology.WOR
DATE: MAY 2012

Table I - Regional Lithologies (*After Gordey and Makepeace, 2003*)

Unit	Period	Description
ETqN	Early Tertiary	**Nisling Range Suite**: Series of felsic intrusives ranging in composition from granodiorite to mafic-poor granite.
uKC1	Upper Cretaceous	**Carmacks Group (1)**: Volcanic succession dominantly olivine basalt and breccia; hornblende-feldspar porphyry and andesite and dacite flows with minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks.
uKC3	Upper Cretaceous	**Carmacks Group (3)**: Medium bedded, poorly sorted, coarse- to fine-grained sandstone, pebble conglomerate, shale, tuff and coal; massive to thick bedded locally derived granite or quartzite pebble to boulder conglomerate.
mKgW	Mid-Cretaceous	**Whitehorse Suite**: Felsic intrusives ranging in composition from quartz monzonite to leucogranite.
EJgA	Early Jurassic	**Aishihik Suite**: Medium to coarse grained, foliated biotite-hornblende granodiorite; biotite rich gneiss; foliated hornblende diorite to monzodiorite with local potassium-feldspar megacrysts.
EJqL	Early Jurassic	**Long Lake Suite**: Felsic, massive to weakly foliated, fine to coarse grained biotite, biotite-muscovite and biotite-hornblende quartz monzonite to granite. Commonly hosts potassium feldspar megacrysts.
CPK1	Carboniferous to Permian	**Klondike Schist (1)**: Tan to rusty and black weathering muscovite and/or chloritic quartzite and quartz-muscovite-chlorite schist; quartz and/or feldspar augen-bearing quartz-muscovite (+/-chlorite) schist; includes augen gneiss and amphibolite.
CPA4	Carboniferous to Permian	**Anvil Range Group (4)**: Dunite, peridotite, gabbro, pyroxenite, harzburgite with minor diorite, hornblendite and diabase; serpentinite, orange weathering quartz-carbonate rock with minor green chromian muscovite, talc-carbonate schist and carbonatized ultramafic rocks.
DMqPW	Late Devonian to Mississippian	**Pelly Gneiss Suite**: Foliated equigranular, medium grained muscovite quartz monzonite, moderately to strongly foliated K-feldspar augen quartz monzonitic to granitic gneiss.
DMgPW	Late Devonian to Mississippian	**Pelly Gneiss Suite**: Foliated medium grained, homogenous biotite granite gneiss to biotite or hornblende granodiorite gneiss; includes interfoliated amphibolite, quartz-mica schist and phyllites.
DMN2	Devonian, Mississippian and older (?)	**Nasina Assemblage (2)**: Marble.

DMN3	Devonian, Mississippian and older (?)	**Nasina Assemblage (3)**: Quartzite, micaceous quartzite, quartz-muscovite schist, and minor metaconglomerate and metagrit. May locally include significant Nisling Assemblage.

PROPERTY GEOLOGY

No property-scale mapping has been done due to the limited bedrock exposure. The following geological descriptions are based on observations made during prospecting, trenching and drilling. The primary rock types are augen gneiss (DMgPW); biotite-feldspar schist (DMN3); feldspar-muscovite schist (DMN3); and silicified, clay-altered feldspar porphyry dyke.

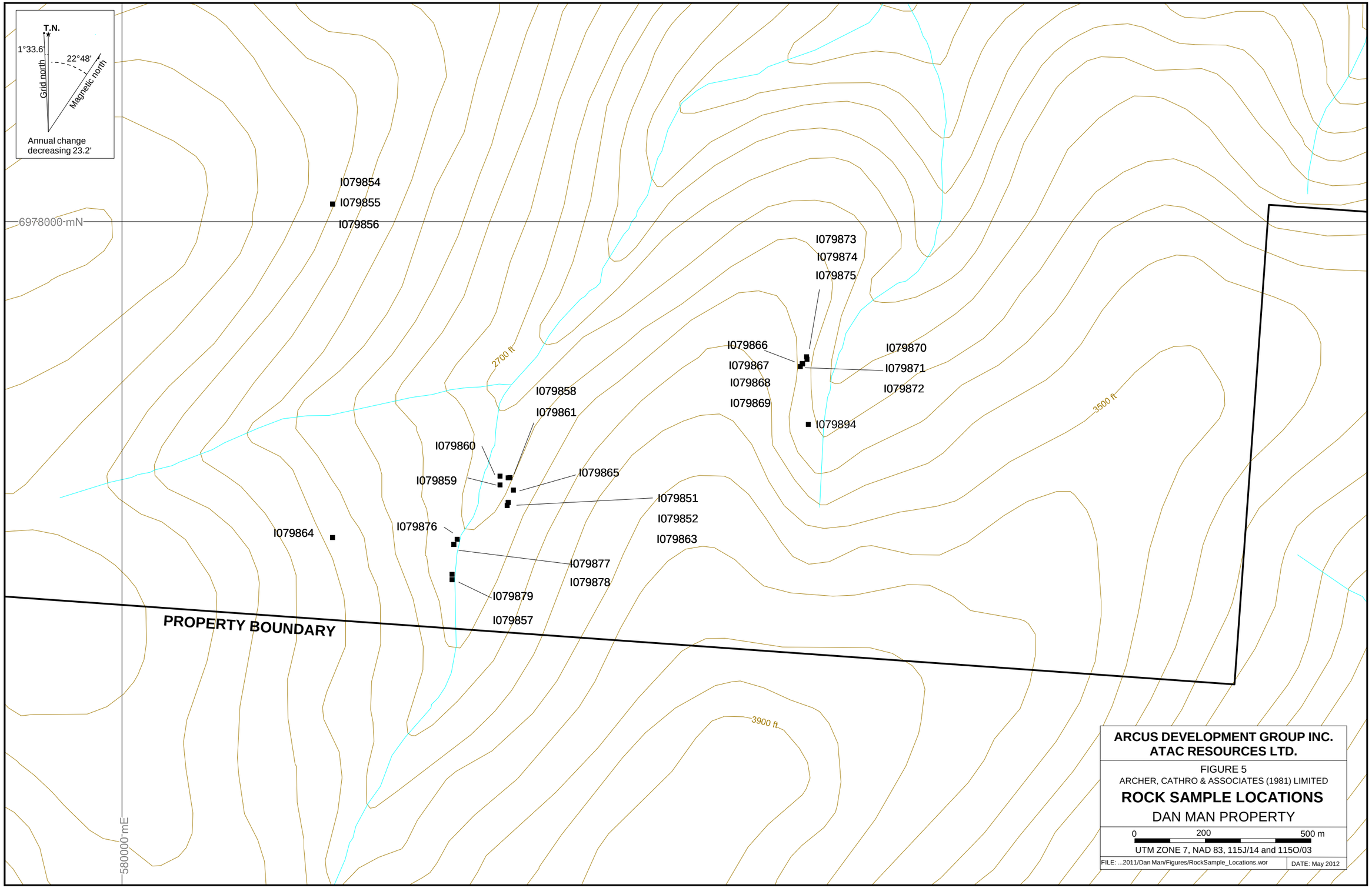
The augen gneiss comprises quartz, feldspar augen, biotite and muscovite. It is the most prominent rock type on the property. The feldspar-muscovite schist is quartz flooded and variably silicified. Areas of limonite and potassic alteration are evident throughout this schist. The feldspar-biotite schist contains quartz augens and is variably altered with minor epidote, local silicification and hematite and limonite staining. Feldspar porphyry dykes are moderately to strongly silicified and in many areas the feldspar has been partially to completely clay altered.

The metamorphic rocks on the Dan Man property dip shallowly south.

MINERALIZATION AND ROCK GEOCHEMISTRY

During prospecting in 2011, 31 rock samples were collected on the Dan Man property. Preparation of rock samples was carried out at ALS Minerals in Whitehorse, Yukon, where each sample was dried and fine crushed to better than 70% passing -2 mm before a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then sent to ALS Minerals in North Vancouver, British Columbia, where splits were analyzed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis and for 35 other elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (Au-AA24 and ME-ICP41). Rock sample locations are illustrated on Figure 5, rock sample descriptions are located in Appendix II and Certificates of Analysis are located in Appendix III.

The photograph below shows the highest grade rock sample collected from the Dan Man property in 2011. It returned 0.885 g/t gold with background values for arsenic and antimony. The protolith of the rock is unknown, but it exhibits quartz eyes, intense potassic alteration, 2% disseminated pyrite and hairline fractures coated with limonite. The rock is highly silicified.


T.N.
1°33.6'
22°48'
Grid north
Magnetic north
Annual change
decreasing 23.2'
6978000-mN
580000-mE
I079854
I079855
I079856
I079873
I079874
I079875
I079866
I079867
I079868
I079869
I079870
I079871
I079872
I079894
I079858
I079861
I079860
I079859
I079865
I079851
I079852
I079863
I079864
I079876
I079877
I079878
I079879
I079857
2700 ft
3500 ft
3900 ft
PROPERTY BOUNDARY
ARCUS DEVELOPMENT GROUP INC.
ATAC RESOURCES LTD.
FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ROCK SAMPLE LOCATIONS
DAN MAN PROPERTY
0
200
500 m
UTM ZONE 7, NAD 83, 115J/14 and 115O/03
FILE: ...2011/Dan Man/Figures/RockSample_Locations.wor
DATE: May 2012

In general, the samples collected during prospecting yielded background to weakly anomalous values for gold, arsenic and antimony.

REGIONAL MINERALIZATION

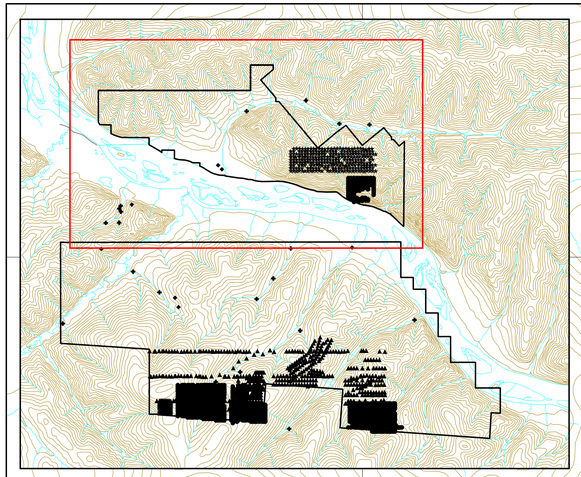
The exploration at Dan Man has been driven by the ongoing successes at Kaminak's Coffee property. The Coffee property hosts nine known gold zones. Country rocks within these zones range from equigranular granite to well foliated metamorphic rocks. Gold is hosted in near-vertical brittle structures. Mineralization primarily occurs as disseminated pyrite and pyrite veinlets in fractures and shears. High grade gold corresponds with sulphide-matrix fault breccias and pathfinder elements include arsenic and antimony.

Gold mineralization on the Coffee property can generally be characterized by two distinct styles. The highest grades (5 to 60 g/t gold) are associated with hydrothermal breccias exhibiting evidence for several episodes of brecciation. Breccia textures range from mature matrix-dominant phases with rounded fragments to wallrock crackle breccias. Matrix compositions range from incompetent limonite-clay material to strongly silicified material. The lower grade gold mineralization (2 to 10 g/t) is associated with pervasive hydrothermal alteration. The hydrothermal alteration is characterized by an overall removal of potassium and aluminum with the addition of sulphide and silica (Chartier, 2011).

Five of Kaminak's nine zones (Supremo, Latte, Double Double, Cappuccino and Macchiato) host gold-bearing breccia structures within metamorphic rocks. These gold-bearing breccias are both hydrothermal and tectonic. In some zones, breccias overprint older ductile strain fabrics consistent with a reactivated shear zone environment (Chartier, 2011).

The Supremo Zone lies two kilometres south of the Dan Man – Coffee claim boundary. This zone hosts gold mineralization that has been characterized by three distinct styles:

1) Multi-episode hydrothermal breccia that yields 5 to 60 g/t gold.
2) Pervasive hydrothermal alteration, which yields 2 to 10 g/t gold.
3) Andesite and dacite dykes, which utilized the same structures as the mineralized fluids. These dykes are altered and can be barren or gold rich.



580000 mE
582000 mE
584000 mE
586000 mE
588000 mE
6988000mN
6986000mN
6984000mN
PROPERTY BOUNDARY
2600
2200
4100

T.N.
1°33.6'
22°48'
Grid north
Magnetic north
Annual change decreasing 23.2'

INSET
585500 mE
587500 mE
6985500 mN
6984500 mN
2200
0
500 m

SEE INSET

- 2011 Soil Samples
- 2010 Soil Samples
- 2009 Soil Samples
- 1980 Soil Samples
- 1980 Silt Samples

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ATAC RESOURCES LTD.

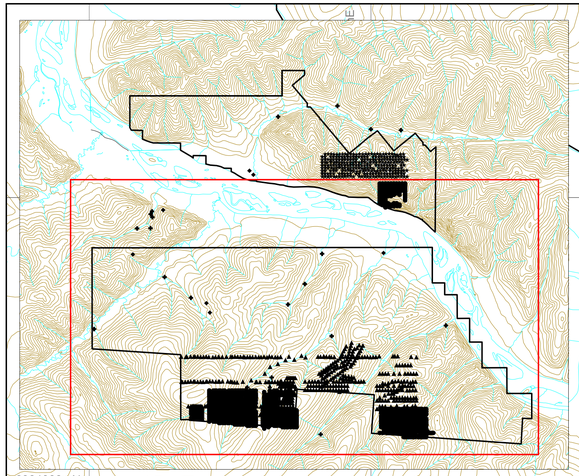
FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

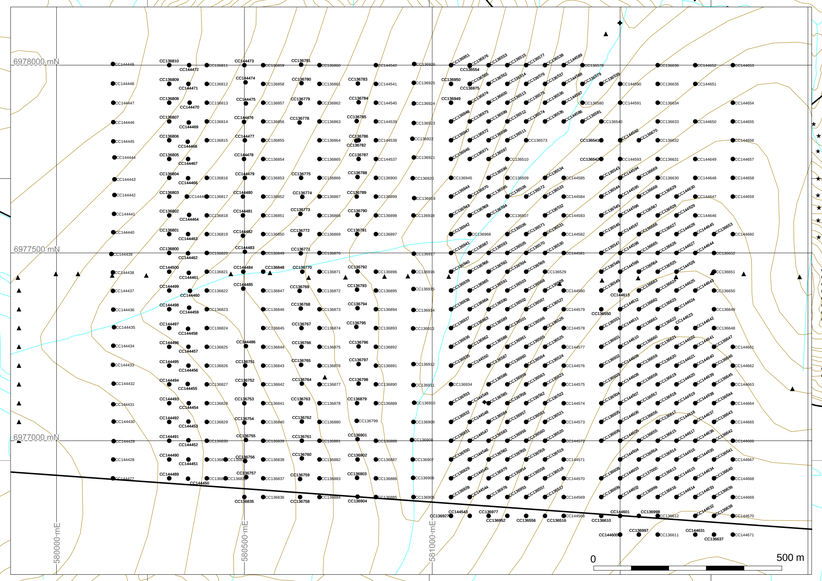
SAMPLE LOCATIONS MAP-A

DAN MAN PROPERTY

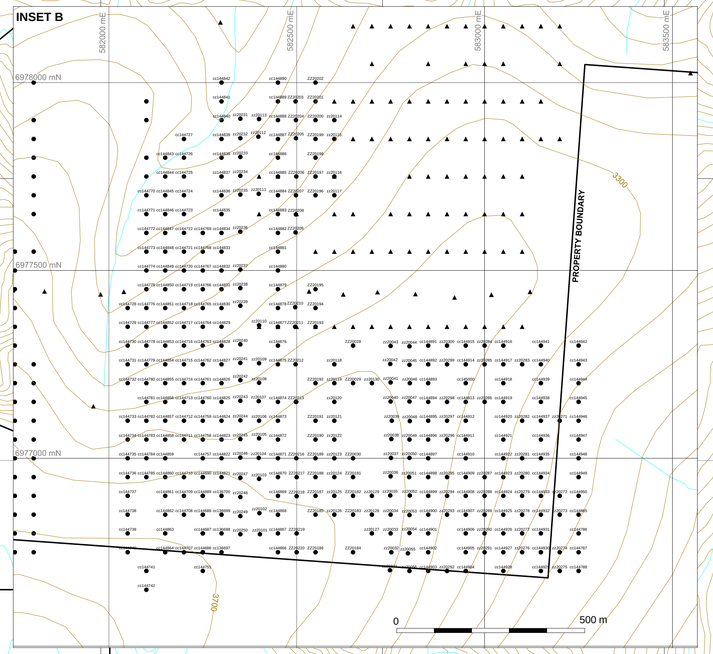
0 500 1 km
UTM ZONE 7, NAD 83, 115J/14 and 115O/03

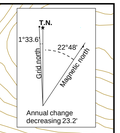
FILE: ...2011/Dan Man/Figures/FS-Sample_Locations_Map A.wor | DATE: May 2011



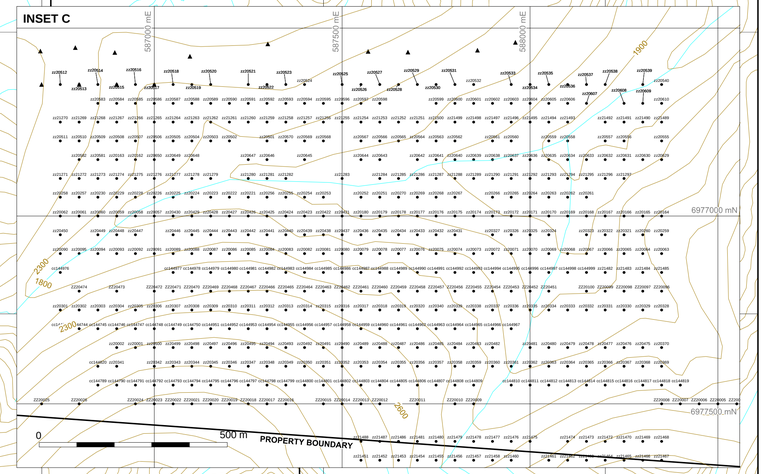


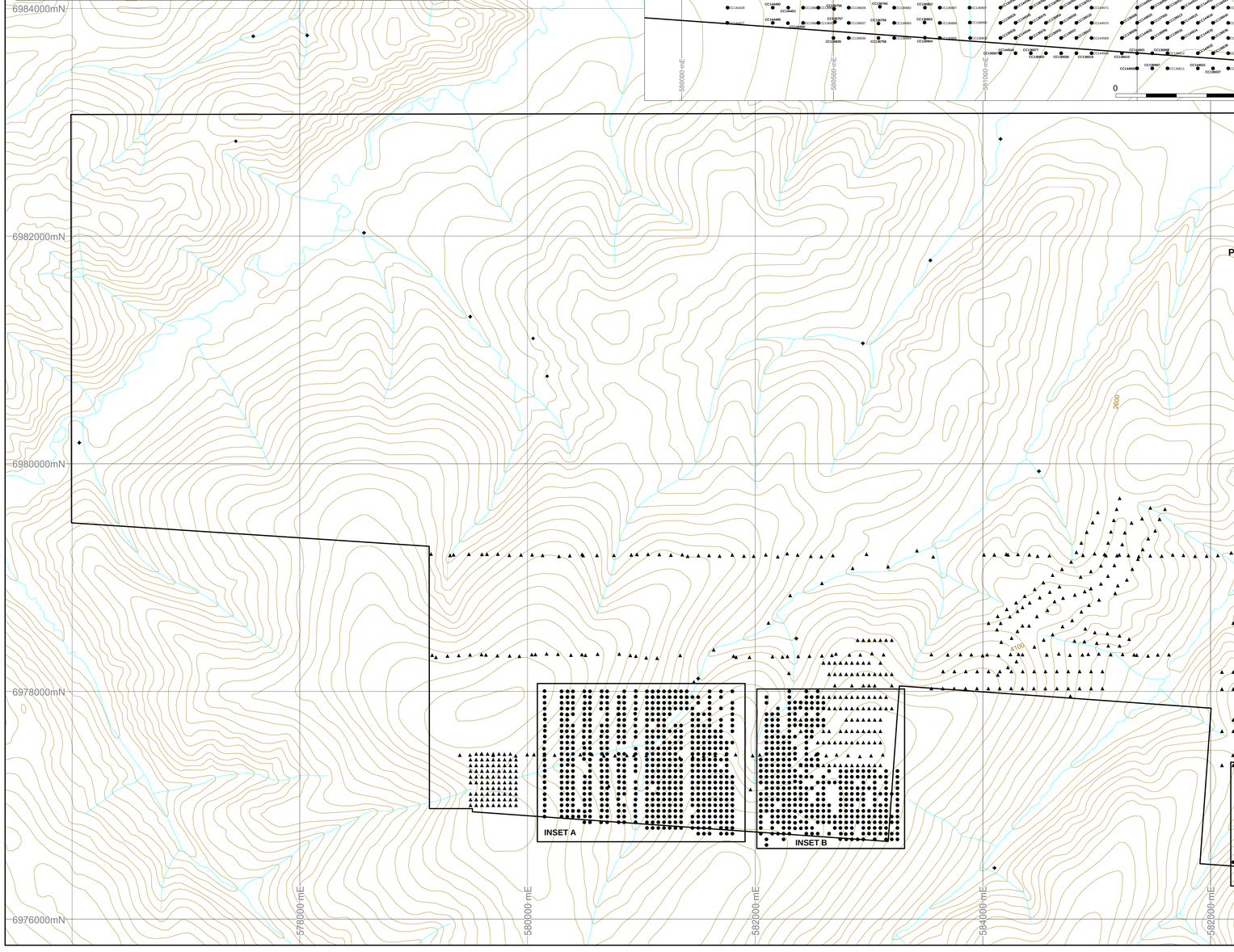
INSET B





INSET C





PROPERTY BOUNDARY

- 2011 Soil Samples
- 2010 Soil Samples
- 2009 Soil Samples
- 1980 Soil Samples
- 1980 Silt Samples

ARCUS DEVELOPMENT GROUP INC.
ATAC RESOURCES LTD.

FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SAMPLE LOCATIONS MAP-B

DAN MAN PROPERTY

0 500 1 km

UTM ZONE 7, NAD 83, 115J/14 and 115O/03

FILE: ...2011/Dan Man/Figures/F5-Sample_Locations_Map-B.wor | DATE: May 2012

T.N.
1°33.6'
22°48'
Grid north
Magnetic north
Annual change decreasing 23.2'

575000 mE
580000 mE
585000 mE
590000 mE
6985000 mN
6980000 mN

PROPERTY BOUNDARY
PROPERTY BOUNDARY

2700 ft
3000 ft
2600 ft
2600 ft
4100 ft

KAMBAA
ROOBIOS
KWAZULU
BENGAL

2011 Soils Au (ppb)
100 ≥444
50 ≥100
20 ≥ 50
10 ≥ 20
5 ≥ 10
0 ≥ 5

2010 Soil Au (ppb)
20 ≥44
10 ≥20
5 ≥10
0 ≥ 5

2009 Soils Au (ppb)
100 ≥132
50 ≥100
20 ≥ 50
10 ≥ 20
5 ≥ 10
0 ≥ 5

1980 Soil Au (ppb)
10 ≥20
5 ≥10
0 ≥ 5

1980 Silt Au (ppb)
20 ≥40
10 ≥20
5 ≥10
0 ≥ 5

ARCUS DEVELOPMENT GROUP INC.
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FIGURE 8
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD GEOCHEMISTRY
DAN MAN PROPERTY
0 500 1 km
UTM ZONE 7, NAD 83, 115J/14 and 115O/03
FILE: ...2011\Dan Man\Figures\F8-Gold_Geochemistry.wor
DATE: May 2012

T.N.
1°33.6'
22°48'
Grid north
Magnetic north
Annual change decreasing 23.2'

575000 mE
580000 mE
585000 mE
590000 mE

6985000 mN
6980000 mN

PROPERTY BOUNDARY

PROPERTY BOUNDARY

2100 ft
2600 ft
2600 ft
4100 ft

KAMBAA
ROOBIOS
KWAZULU
BENGAL

2011 Soils As (ppm)
100 ≥114
50 ≥100
20 ≥ 50
10 ≥ 20
0 ≥ 10

2010 Soils As (ppm)
50 ≥70
20 ≥50
10 ≥20
0 ≥10

2009 Soils As (ppm)
100 ≥188
50 ≥100
20 ≥ 50
10 ≥ 20
0 ≥ 10

1980 Soils As (ppm)
0 ≥10

1980 Silts As (ppm)
20 ≥29
10 ≥20
0 ≥10

ARCUS DEVELOPMENT GROUP INC.
ATAC RESOURCES LTD.

FIGURE 9
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARSENIC GEOCHEMISTRY
DAN MAN PROPERTY
0 500 1 km
UTM ZONE 7, NAD 83, 115J/14 and 115O/03
FILE: ...2011\Dan Man\Figures\FA_As_Geochemistry.wor
DATE: May 2012

T.N.
1°33.6'
22°48'
Grid north
Magnetic north
Annual change decreasing 23.2'

575000 mE
580000 mE
585000 mE
590000 mE
6985000 mN
6980000 mN

PROPERTY BOUNDARY

PROPERTY BOUNDARY

2600 ft
4100 ft

KAMBAA
ROOBIOS
KWAZULU
BENGAL

2011 Soils Sb (ppm)
20 ≥25
10 ≥20
5 ≥10
2 ≥ 5
1 ≥ 2
0 ≥ 1

2010 Soils Sb (ppm)
5 ≥8
2 ≥5
1 ≥2
0 ≥1

2009 Soils Sb (ppm)
10 ≥13
5 ≥10
2 ≥ 5
1 ≥ 2
0 ≥ 1

1980 Soil Samples
Not Reported

1980 Silt Samples
Not Reported

ARCUS DEVELOPMENT GROUP INC.
ATAC RESOURCES LTD.

FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ANTIMONY GEOCHEMISTRY
DAN MAN PROPERTY
0 500 1 km
UTM ZONE 7, NAD 83, 115J/14 and 115O/03
FILE: 2011\Dan Man\Figures\FX_Sb_Geochemistry.wor
DATE: May 2012

SOIL GEOCHEMISTRY

In 2011, 1630 soil samples were collected from the Dan Man property. The samples were collected at 50 by 50 m spacings from four separate grids. Two grids were established south and west of the Kambaa Zone. A third grid was positioned in the eastern part of the property to test for the continuation of anomalous soil geochemical results reported by Kaminak. The final grid was completed north of the Yukon River around a magnetic high identified by Precision's helicopter-borne magnetic survey.

Locations for all samples were established using hand-held 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. Samples were dug using a hand-held auger and were collected as deep in the soil profile as ground conditions allowed, which was typically between 35 and 70 cm depth. Each sample was placed into individually pre-numbered Kraft paper bags.

All soil samples were sent to ALS Minerals, where they were dried, screened to -180 microns, dissolved in aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma with atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Certificates of Analysis are located in Appendix III. Due to the large area covered, soil sample locations are shown on Figures 6 and 7. Figures 8 to 10 illustrate gold, arsenic, and antimony geochemistry. Thresholds used for describing soil results are shown in Table II.

Table II - Thresholds for Soil Values

Element	Weak	Moderate	Strong	2011 Peak Value
Gold	≥12.5 <25 ppb	≥25 <50 ppb	≥100 ppb	444
Arsenic	≥20 <50 ppm	≥50 <100 ppm	≥100 ppm	114
Antimony	≥2 <5 ppm	≥5 <10 ppm	≥ 10 ppm	25

Soil sampling in 2011 identified two new zones (Rooibos and Bengal) with significant gold-in-soil response.

The Kambaa Zone is characterized by a 900 by 200 m, easterly-trending gold-in-soil anomaly with gold values ranging from 12.5 to 132 ppb. This anomaly is bound by two northwest-trending lineaments interpreted from air photos. Moderately to strongly anomalous arsenic values (up to 114 ppm) in this zone are clustered in a 250 by 400 m area immediately west of the 2010 trenching area. Antimony response within this zone is background to moderately anomalous with clusters and strings of significant values ranging up to 16 ppm. There is good correlation between elevated gold, arsenic and antimony values.

The Kwazulu Zone is located about two kilometres west of the Kambaa Zone. The 2010 Kwazulu Zone was expanded to encompasses an arcuate area about 1200 by 200 m. This zone is defined by a large zone of moderately anomalous gold response with small clusters of strongly anomalous gold values (up to 156 ppb). Arsenic occurs as scattered moderately anomalous

values with one strongly anomalous value (84 ppm). Antimony values were background with one strongly anomalous value (12 ppm).

The Rooibos Zone lies one kilometre south of the Kambaa Zone. It covers an 800 by 100 m area and comprises moderately to strongly anomalous gold (up to 98 ppb), arsenic (up to 87 ppm) and antimony (up to 25 ppm) values.

The Bengal Zone is situated four kilometres southeast of the Kambaa Zone. It is a west-northwest-trending anomaly that covers a 1800 by 500 m area. The Bengal Zone hosts the strongest gold-in-soil response identified on the property to date. It comprises moderately to strongly anomalous gold values (up to 444 ppb). Strongly anomalous arsenic (up to 96 ppm) within this zone was clustered in two areas. There is good correlation between strongly anomalous gold and arsenic values. Antimony values were background. A lineament analysis performed air photos suggests that the soil geochemical anomaly is bisected by a series of north-northwest-trending structures.

The grid located on the north side of the river primarily returned background to weakly anomalous values with the exception of one strongly anomalous gold value (54 ppb), three strongly anomalous arsenic values (60, 63 and 65 ppm) and one moderately anomalous antimony value (5 ppm). The anomalous clusters have good correlation between gold, arsenic and antimony.

DIAMOND DRILLING

In 2011, a total of 1651.8 m of diamond drilling was completed in 10 holes on the Dan Man property. These holes were drilled to test the following: four separate structural trends interpreted from air photos; magnetic anomalies identified from Precision's survey; and, rock and soil geochemical anomalies identified by Arcus.

The first hole was collared on July 28, 2011 and the final hole was completed on August 24, 2011. The work was contracted to Elite Diamond Drilling Ltd. of Vernon, British Columbia. It was done with a heli-portable diesel-powered JKS-300 drill using BTW equipment. The drill was set up on platforms of 8"x 8" timbers covered with 2"x 8" planks, which were built on sites dug by hand.

Drill collar locations are plotted on Figure 11 while simplified cross-sections are illustrated on Figures 12 to 17. Certificates of Analyses are provided in Appendix III, and Geological and Geotechnical Logs are given in Appendix IV. Data concerning individual holes is presented on Table IV.

T.N.
1°33.6'
22°48'
Grid north
Magnetic north
Annual change decreasing 23.2'

575000 mE
580000 mE
585000 mE
590000 mE

6985000mN
6980000mN
6975000mN

SECTION LINE: 1145 E
SECTION LINE: 1345 E
SECTION LINE: 1830 E
SECTION LINE: 2850 E
SECTION LINE: 2980 E
SECTION LINE: 0520 E

DM-01-11
DM-02-11
DM-03-11
DM-04-11
DM-05-11
DM-06-11
DM-07-11
DM-08-11
DM-09-11
DM-10-11

2011 Diamond Drill Hole

ARCUS DEVELOPMENT GROUP INC.
ATAC RESOURCES LTD.

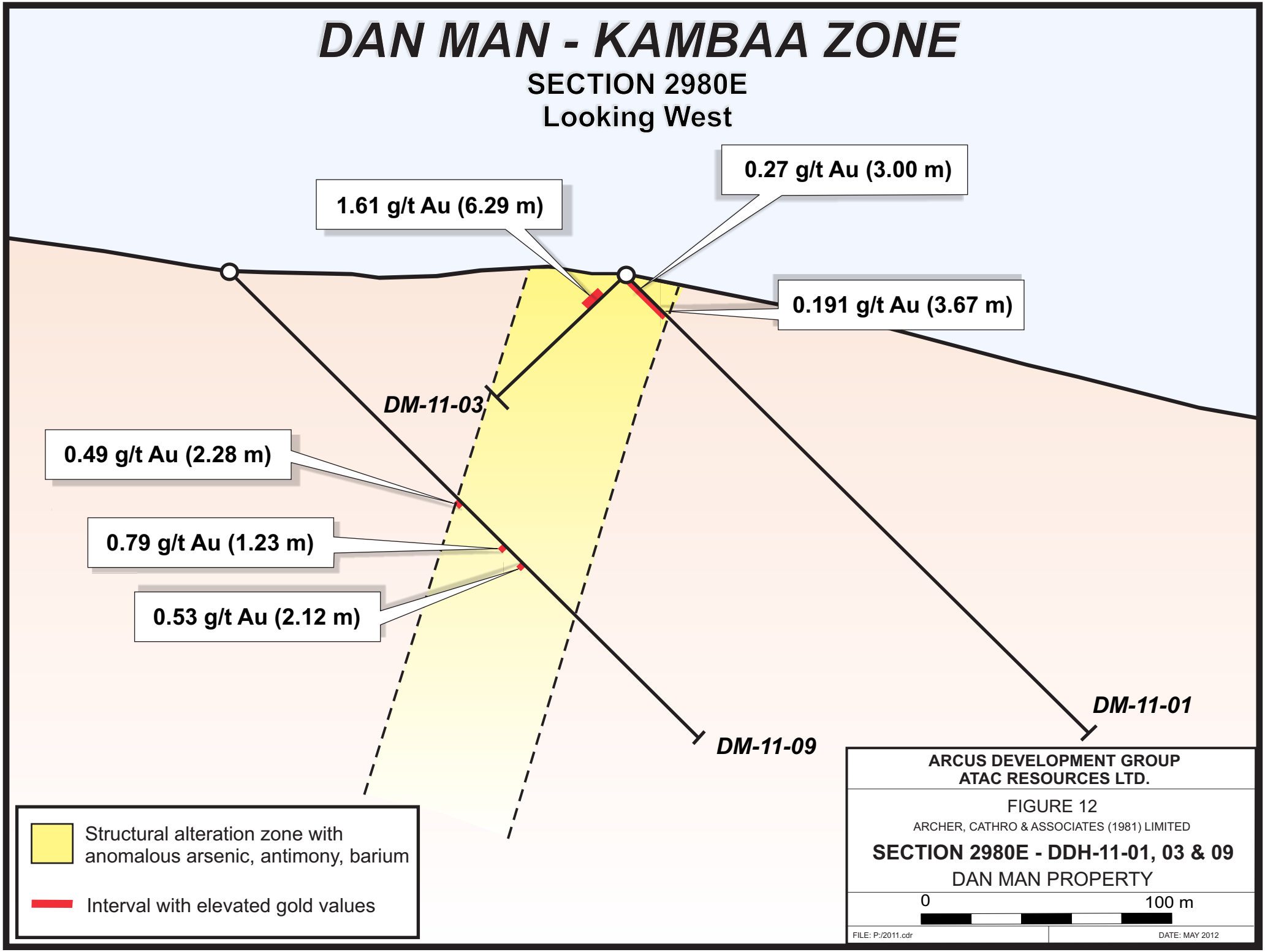
FIGURE 11
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DIAMOND DRILL HOLE LOCATIONS WITH TOTAL MAGNETIC INTENSITY
DAN MAN PROPERTY

0 1 2.5 km
UTM ZONE 7, NAD 83, 115J/14 and 115O/03

FILE:...2011/Dan Man/Figures/F7-DDH_W_TMI.wor
DATE: May 2012

DAN MAN - KAMBAA ZONE

SECTION 2980E
Looking West



ARCUS DEVELOPMENT GROUP
ATAC RESOURCES LTD.

FIGURE 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 2980E - DDH-11-01, 03 & 09

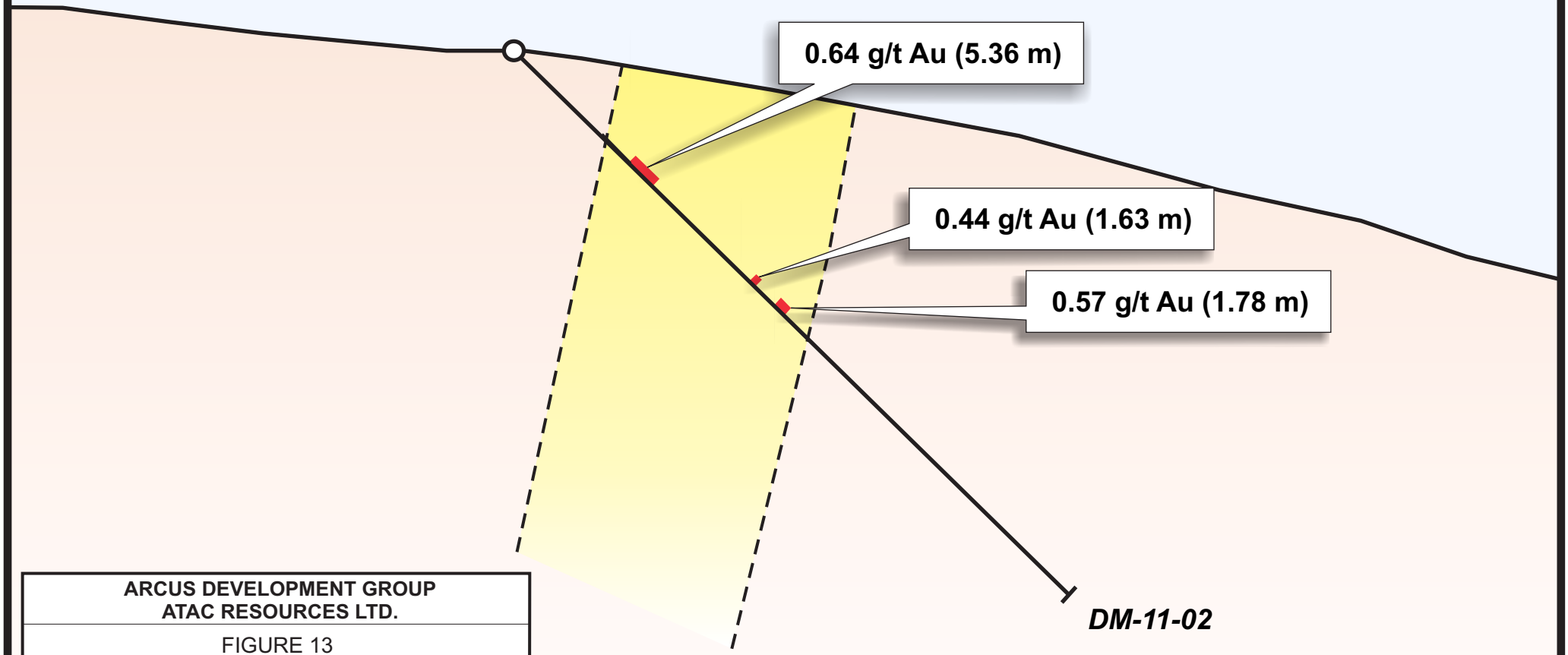
DAN MAN PROPERTY

0 100 m

FILE: P:/2011.cdr DATE: MAY 2012

DAN MAN - KAMBAA ZONE

SECTION 2850E
Looking West



ARCUS DEVELOPMENT GROUP
ATAC RESOURCES LTD.

FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 2850E - DDH-11-02

DAN MAN PROPERTY

0 50 m

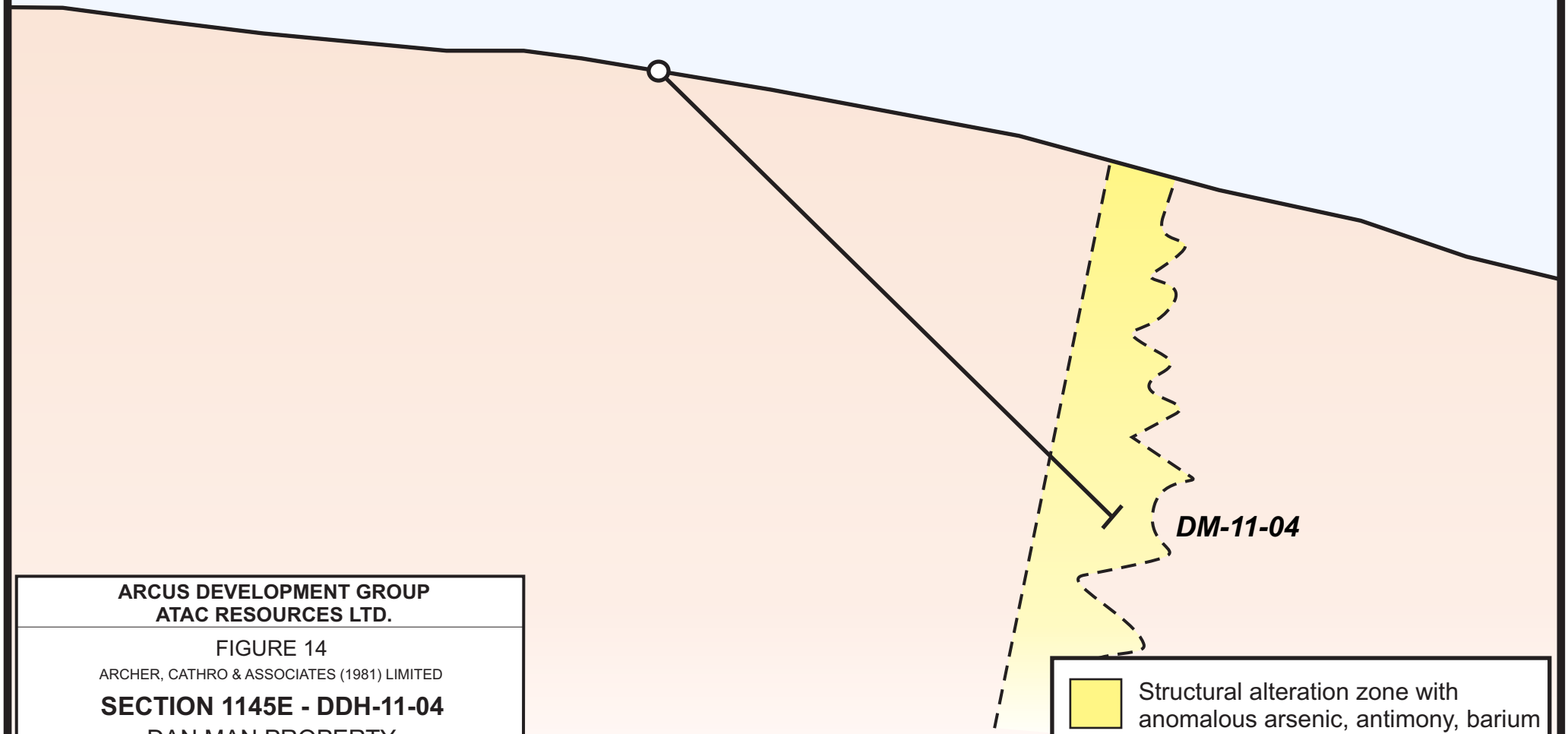
FILE: P:/2011.cdr DATE: MAY 2012

Structural alteration zone with anomalous arsenic, antimony, barium

Interval with elevated gold values

DAN MAN - KWAZULU ZONE

SECTION 1145E
Looking West



ARCUS DEVELOPMENT GROUP
ATAC RESOURCES LTD.

FIGURE 14

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 1145E - DDH-11-04

DAN MAN PROPERTY

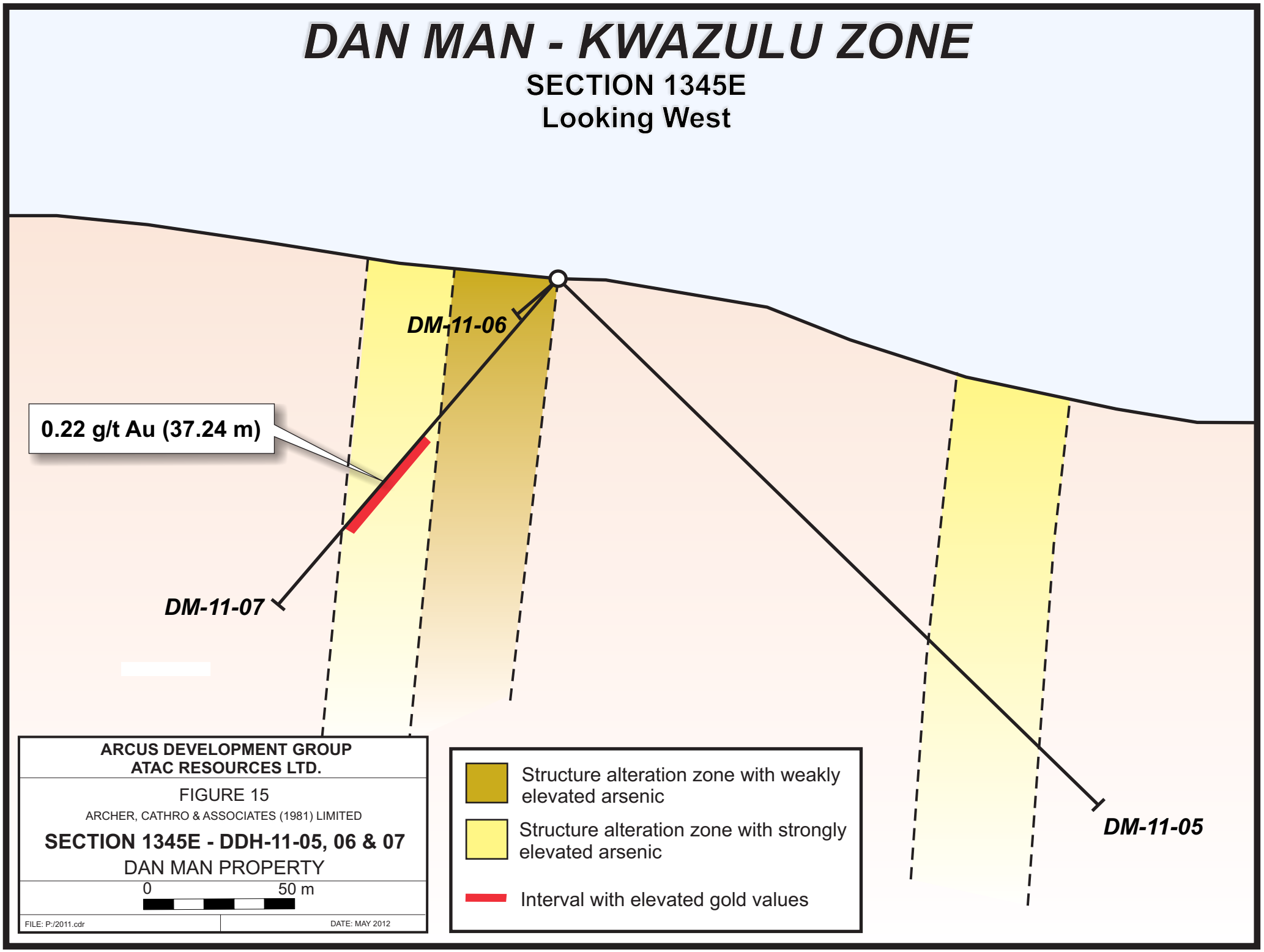
0 50 m

FILE: P:/2011.cdr

DATE: MAY 2012

DAN MAN - KWAZULU ZONE

SECTION 1345E
Looking West



ARCUS DEVELOPMENT GROUP
ATAC RESOURCES LTD.

FIGURE 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 1345E - DDH-11-05, 06 & 07

DAN MAN PROPERTY

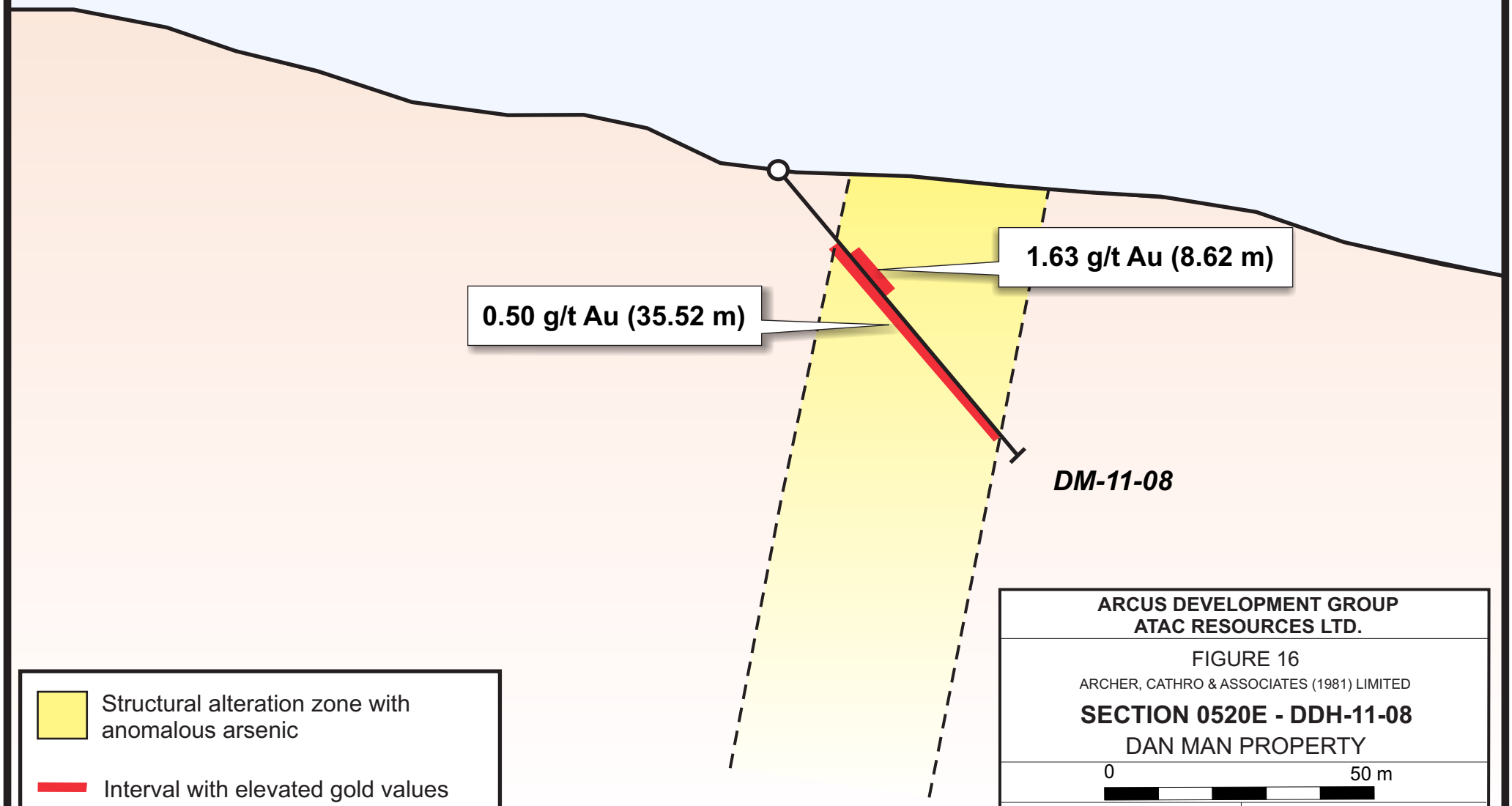
0 50 m

FILE: P:/2011.cdr

DATE: MAY 2012

DAN MAN - KWAZULU ZONE

SECTION 0520E
Looking West



Structural alteration zone with anomalous arsenic

Interval with elevated gold values

ARCUS DEVELOPMENT GROUP
ATAC RESOURCES LTD.

FIGURE 16

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 0520E - DDH-11-08

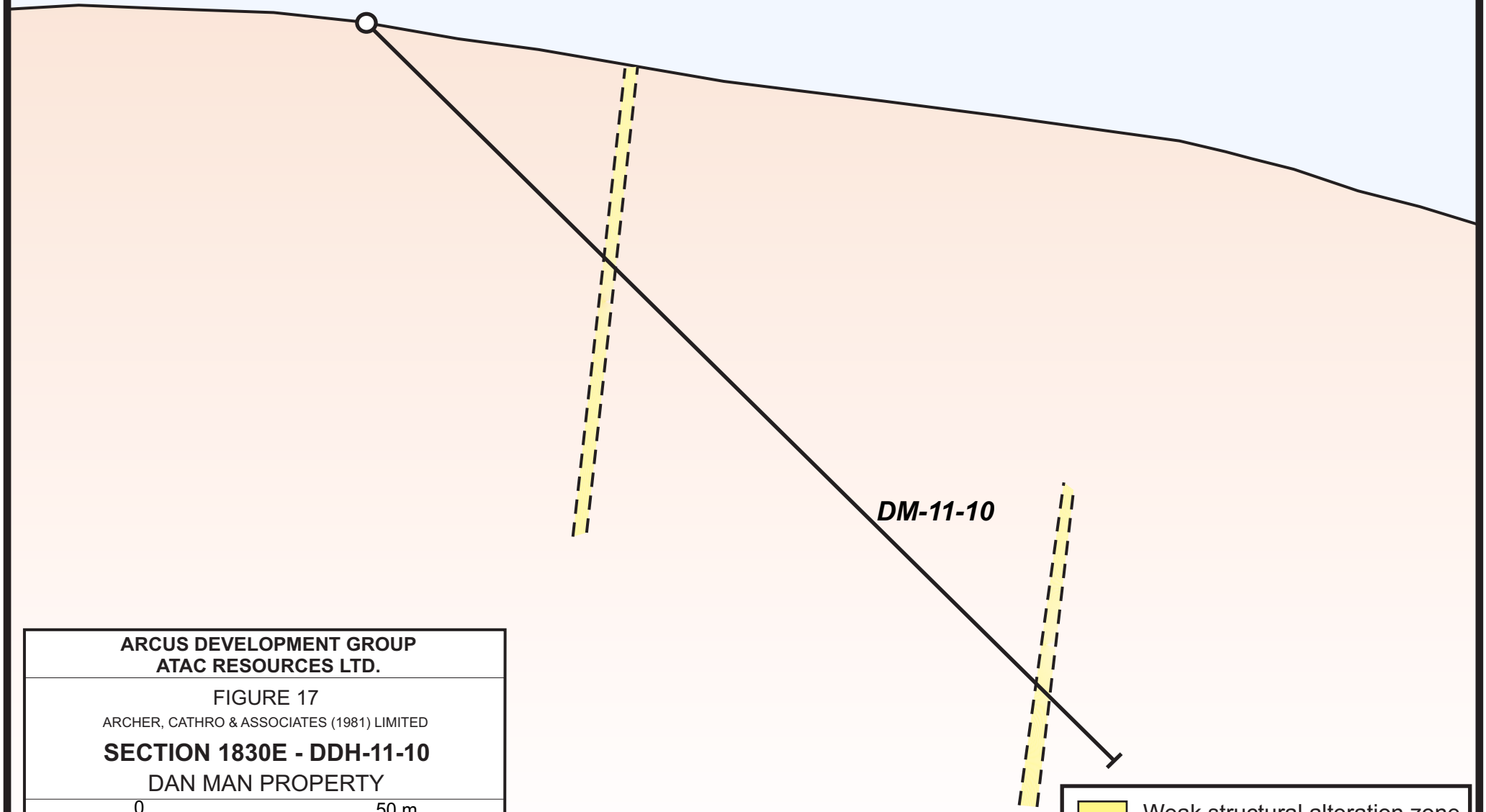
DAN MAN PROPERTY

0 50 m

FILE: P:/2011.cdr DATE: MAY 2012

DAN MAN - KAMBAA ZONE

SECTION 1830E
Looking West



ARCUS DEVELOPMENT GROUP
ATAC RESOURCES LTD.

FIGURE 17

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 1830E - DDH-11-10

DAN MAN PROPERTY

0 50 m

FILE: P:/2011.cdr DATE: MAY 2012

Weak structural alteration zone (no elevated gold response).

Table III – Drill Hole Data

DRILL HOLE	EASTING	NORTHING	AZM	DIP	FEET	METRES
DM-01-11	582977	6977803	0	-45	717	218.6
DM-02-11	582853	6977754	0	-45	458	139.6
DM-03-11	582977	6977803	180	-45	718	218.9
DM-04-11	581145	6977110	0	-45	558	170.1
DM-05-11	581345	6977110	0	-45	830	253.0
DM-06-11	581345	6977110	180	-45	61	18.6
DM-07-11	581345	6977110	180	-50	473	144.2
DM-08-11	580522	6977170	40	-50	228	69.5
DM-09-11	582972	6977671	0	-45	730	221.9
DM-10-11	581830	6977640	30	-45	648	197.5

Core samples from the Dan Man property were processed in 36 sample batches with each batch including two assay standards and two blank samples. Analytical work was done by ALS Minerals with sample preparation in Whitehorse and assays and geochemical analyses in North Vancouver, British Columbia. Each sample was dried, fine crushed to better than 70% passing -2 mm and then a 250 g split was pulverized to better that 85% passing 75 micron. All samples were then analyzed for gold by fire assay followed by atomic absorption (Au-AA24) and 35 other elements by inductively coupled plasma-atomic emission spectroscopy (ME-ICP41). All standard and blank samples passed QAQC reviews.

Four holes were drilled in the Kambaa Zone (DM-11-01, DM-11-02, DM-11-03 and DM-11-09), five holes were drilled in the Kwazulu Zone (DM-11-04, DM-11-05, DM-11-06, DM-11-07 and DM-11-08) and one hole was drilled west of the Kambaa Zone at the site where the best rock sample was collected in 2011.

All holes intersected visually interesting alteration and structural zones, the gold response associated with these zones varied from hole to hole. The most prospective unit intersected was a multi-episodic breccia healed with limonite, quartz-carbonate and fine grained secondary pyrite. The original fabric of the host biotite-muscovite-garnet augen gneiss has been completely obliterated and there is a distinct progression of potassic to sericitic alteration and varying degrees of brecciation and silicification. Table III below highlights significant drill intercepts from the 2011 drill program while individual holes are discussed in the following paragraphs.

Table IV – Significant Drill Intercepts

Hole	Zone	Azimuth	From (m)	To (m)	Interval (m)*	Gold (g/t)
DM-11-02	Kambaa	000	29.10	34.45	5.36	0.64
including			29.10	30.65	1.55	1.18
DM-11-03	Kambaa	180	10.34	16.63	6.29	1.61
including			12.24	16.63	4.39	2.08
DM-11-07	Kwazulu	180	72.54	109.78	37.24	0.22
DM-11-08	Kwazulu	035	21.15	56.67	35.52	0.50
including			21.15	29.77	8.62	1.63

*True widths are believed to be 70-90% of the intervals reported in the table above.

Kambaa Zone

DM-11-01 was designed to test the eastern edge of the Kambaa Zone. This hole mostly intersected fractured and potassic altered gneiss. Fractures range from hairline to 2 mm thick and are coated with limonite. The original south-dipping foliation was preserved due to silica content. The best result from this hole was 0.27 g/t gold over 3.0 m.

DM-11-02 lies about 100 m west of DM-11-01. This hole intersected narrow quartz and pyrite dominant breccia zones, which yielded up to 0.64 g/t gold over 5.36 m including 1.18 g/t gold over 1.55 m. Two narrower intervals (0.44 g/t gold over 1.63 m and 0.57 g/t gold over 1.78 m, respectively) were intersected down hole.

DM-11-03 was drilled from the same pad as DM-11-01, but was drilled 180° in the opposite direction. It successfully intersected a near-surface, clay-rich alteration zone, which yielded 1.61 g/t gold over 6.29 m.

DM-11-09 is located south of DM-11-01 and DM-11-02. This hole parallels DM-11-02. It intersected three narrow zones of encouraging gold mineralization including: 0.49 g/t gold over 2.28 m; 0.79 g/t gold over 1.23 m; and, 0.53 g/t gold over 2.12 m.

DM-11-10 lies west of the Kambaa zone on an east-facing talus slope. A rock sample returning 0.88 g/t gold was collected from the talus slope. This area has not been soil sampled. Although this hole intersected zones of hematite and limonite alteration, it did not return any significant values for gold or its pathfinder elements.

Kwazulu Zone

DM-11-04 was positioned to test an anomalous rock sample (1.69 g/t gold) collected in 2009 and a structural junction between two lineaments identified in air photos. This hole intersected narrow zones of potassic alteration, but did not intersect any zones of brecciation. The bottom of the hole contained a bleached and clay altered andesite dyke with dark brown limonite fractures. Gold values were subdued; however, arsenic, antimony and barium values were elevated.

DM-11-05 is located upslope from DM-11-04 to further explore for the source of the 1.69 g/t gold sample and to test beneath an air photo lineament. An altered breccia zone with disseminated fine grained pyrite was intersected deep in this hole, but gold values were low.

DM-11-06 was drilled from the same pad, but 180° opposite of, DM-11-05. This hole tested a northwest-trending linear identified from air photos. DM-11-06 was abandoned at 18.6 m due to hole complications.

DM-11-07 was drilled slightly back from, and at the same azimuth as DM-11-06, but with a dip of -50° not -45°. This hole intersected an intensely sheared and pyrite-rich clast and matrix supported breccia. The breccia zone varies in colour from deep orange (ankerite-rich) to pale green (chlorite-rich?). Silicification increases at depth and a distinct iron-rich fluid front overprints brecciation in a number of areas. Re-brecciated clasts are contained within limonite or ankerite cement. A late structural event introduced fine pyrite into the system.

DM-11-08 was collared immediately upslope from a soil sample site that returned 134 ppb gold. Near the bottom of the hole, a clay-rich breccia zone mixed with small sections of heavily silicified schist was intersected. There is very little preservation of pre-brecciation faulting or mineralogy due to the level of brecciation. This hole yielded 0.50 g/t gold over 35.52 m including 1.63 g/t gold over 8.62 m.

TRENCH RECLAMATION

In 2010, three trenches were dug by a John Deere 450 cat with excavator attachment ('excavator') owned and operated by 15317 Yukon Inc. of Whitehorse. During excavation organic material comprising moss, shrubs and trees was carefully removed and placed on the uphill side of each trench. The rock and soil removed from the trench was placed on the opposite side of the trench. The trenches were ramped at both ends to allow animals to enter and exit. Once the trenches were completed to permafrost, at about one metre depth, they were mapped and sampled and the excavator was winterized at a staging area south of the trenching area (Figure 2). The trenches were left open over the winter in hopes that increased air circulation would promote thaw.

In June 2011, the excavator reclaimed all of the trenches. The reclamation process involved back-filling of rock and soil and re-contouring the slope to as close to the original topography as possible. Once the soil was re-contoured, the organic material was placed on top of the soil. The replaced vegetation acts as protection against erosion by preventing runoff channels. It also creates areas for air-borne seedlings to be deposited thereby promoting re-growth of new groundcover.

At the end of the reclamation program the excavator was broken down and flown to a temporary staging area located on the South Klondike Road, which is an extension of the Hunker Creek road system. The equipment was flown in pieces by a Bell 204 and 206L4 helicopters owned and operated by Fireweed Helicopters Ltd. from its permanent base in Dawson City.

GEOPHYSICAL SURVEYS

In spring 2011, a helicopter-borne magnetic survey was contracted to Precision Geosurveys Inc. of Vancouver, British Columbia. The survey was conducted between March 16 and April 26. Interpretation of the survey data was completed by Condor Consulting Inc. of Lakewood, Colorado.

A total of 6931 line kilometers were flown during Precision's survey of the Kirkman area, which covered Arcus' Dan Man and Touleary properties. Appendix V contains reports by Precision and Condor, which describe equipment and procedures that were used during the survey and an interpretation of the results. CDs containing digital survey data are also attached to this report.

Figure 11 illustrates Total Magnetic Intensity for the Dan Man property. In the south-central part of the property, Condor identified a northwest-trending moderate magnetic high, which extends from the Coffee property towards the northwest corner of the Dan Man property. All of the 2011 drill holes were drilled within this magnetic feature.

In the southeastern part of the property the Bengal Zone is underlain by a magnetic low. There is a distinct northwest-trending contact between this anomaly and the moderate magnetic high. The contact may be lithological or structural in nature. It has not been tested by Arcus.

DISCUSSION AND CONCLUSIONS

The Dan Man property lies within a highly prospective suite of rocks in the Dawson Range Gold Belt. The 2011 exploration program at the property successfully identified a number of strongly altered, structurally controlled multi-episodal breccia zones and significant gold-in-soil geochemical anomalies. These discoveries combined with ongoing exploration success at Kaminak's Coffee property reinforce the need for further exploration on the Dan Man property.

The four anomalous zones identified on the Dan Man property all require additional work. Although the Kambaa Zone has been drilled, only the eastern edge of this zone was tested. The area hosting strongly anomalous gold, arsenic and antimony soil values remains a high priority drill target. Drill pads to test this zone will have to be established early due to the likelihood of encountering frozen ground.

Additional holes should be drilled in the Kwazulu Zone near DM-11-07 and DM-11-08. Future holes should be drilled along section lines to test the continuity and grade of the mineralized structure at depth. If higher-grade mineralization is encountered, step-out drilling along strike should be contemplated.

The Bengal Zone warrants further work on a high priority basis. Initially, the geochemical anomaly should be prospected and drill pads should be scouted. If significant mineralization or alteration is noted in areas with strongly anomalous gold-in-soil geochemistry, Arcus should proceed directly to diamond drilling.

Based on the strongly anomalous gold, arsenic and antimony soil values from the Rooibos Zone, it should receive follow up prospecting. Additionally, the area surrounding the coincident gold, arsenic and antimony anomaly on the north-side of the Yukon River should be prospected.

Arcus purchased high resolution air photos from Kaminak in April 2011. These photos should be carefully inspected using a stereoscope to determine structural features like faults or lineaments. Once this analysis has been completed, an overlay should be made to allow comparison with the soil geochemistry data.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Heather Smith, B.Sc., P.Geo.

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2011 Assessment report describing excavator trenching and geochemical sampling at the Dan Man Property, western Yukon. Report prepared by Archer, Cathro & Associates (1981) Limited.

Chartier, D.
2011 Independent Technical Report for the Coffee Gold Project, Yukon Territory, Canada; Report prepared for Kaminak Gold Corporation by SRK Consulting (Canada) Inc.

APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Heather Smith, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Squamish, British Columbia do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B. Sc in Geological Sciences.

2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.

3. I am a Professional Geoscientist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (Professional Number 34689).

4. I have personally directed and participated in the fieldwork reported herein and have interpreted all data resulting from this work.

Heather Smith, B.Sc., P.Geo.

APPENDIX II

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions Project: Dawson Gold Property: Dan Man

Sample Number:	Grid East:		E	Grid North:		N	Type: Rock	Dimension: 12x5x2cm
I079851	UTM:	581100	E	UTM:	6977200	N	Sample Width:	Abundance: a few found digging in one area
	Elevation:		m					

Comments: Yellow-reddish-brown rock. Fully silicified. Coffee-stain-type limonitic veinlets and microveinlets throughout. Trace specks of aresenopyrite in veinlets? Could be micas. Minor pitting. Veinlets <0.1 - 0.3cm wide. Minor convolutions in veinlet pathways. Minor mica content. 15% limonite. 07/14/11

Sample Number:	Grid East:		E	Grid North:		N	Type: Rock	Dimension: 15x9x4cm
I079852	UTM:	581100	E	UTM:	6977200	N	Sample Width:	Abundance: a few found digging in one area
	Elevation:		m					

Comments: Ruddy-brown rock. Fully silicified. Minor mica content, 25% limonite in coffee-stain-type veinlets. 1.3x4cm limonitic bleb. Veinlets <0.1-0.2cm wide. Veinlets grade into surrounding rock. No distinct boundaries. Quartz-dominated groundmass has dark-grey mottled patern; micas? 07/14/11

Sample Number:	Grid East:		E	Grid North:		N	Type: Rock	Dimension: 11x6x5cm
I079853	UTM:	581085	E	UTM:	6977360	N	Sample Width:	Abundance: lone sample in small rock patch
	Elevation:		m					

Comments: Burnt-brown-greenish, mottled, pitted exterior weathering surface. Brecciated quartz flood with proximal blebby pyrite, 5%, in moderately rusty <0.4cm blebs. 2% 0.1cm speckles of brown-black submetalic mineral, concentrate near center of sample. 15% dull, earthy, teal-green mineral, blebbed and disseminated. 30% brecciated quartz. 48% pale green hard mineral. Epidote? Hornfels? 07/14/11

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 10x10x5cm
I079854	UTM:	580600	E	UTM:	6978050	N	Sample Width:	Abundance: single specimen found in boulder field.
	Elevation:		m					

Comments: Clay matrix-dominated quartz breccia drizzeled with 0.1-0.4cm coffee-coloured limonite veinlets. The veinlets originate from a common veinlet and then get smaller, much like a braided stream. 73% clay matrix, 15% limonite (coffee-coloured drizzels) 10% 0.1-0.3cm clear-quartz clasts, 2% oxidized, rusty-red crystals, hexagonal in cross section, 0.1cm. The coffee rock is moderately porous. On one side of the rock there is a contact between the cream-coloured clay domain and a vuggy, silicified, grey domain that is full of limonitic microveinlets, minor micas and brecciated, <0.3cm quartz clasts. In this part of the rock, quartz takes up 55%, grey micas 30%, limonite 15%. It was located at the very bottom end of a 30m boulder field. It bears a strong resemblance to the Kaminak Supremo rocks from the picture book, specifically CFD004-54.4m KAM000697 and CFD002-136.5m KAM000347.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
I079855	UTM:	580600	E	UTM:	6978050	N	Sample Width:	Abundance: rare specimen found in boulder field.
	Elevation:		m					

Comments: Orange-beige rock with limonitic pits. Dark grey sulfide in pits and disseminated. Well silicified. 15% limonite, 5% sulfide. 07/11/11

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
I079856	UTM:	580600	E	UTM:	6978050	N	Sample Width:	Abundance: rare specimen found in boulder field.
	Elevation:		m					

Comments: Beige rock with pitted exterior weathering. Microbrecciated clear-quartz with orangey limonitic? matrix.

Rock Sample Descriptions Project: Dawson Gold Property: Dan Man

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 10x8x6cm
I079857	UTM:	580940	E	UTM:	6976980	N	Sample Width:	Abundance: moderately abundant in this section of the creek.
	Elevation:		m					

Comments: Silicified, pale-pink rock with <0.1cm black speckles, <0.5cm vugs and fractures lined with a silvery-grey metallic mineral. One of the fractures contains a 0.4cm pocket of pale-yellow clay. Found in the creek.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 10x4x3cm
I079858	UTM:	581100	E	UTM:	6977270	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Reddish-weathered exterior. Beige interior. Well silicified with 50% clear quartz domain. Single 0.2cm pale green sericitic band, softer than surrounding textures. Limonitic microveinlets, <0.1cm, at at least two different angles. Rusty specks, <0.1cm, throughout.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 8x8x3cm
I079859	UTM:	581077	E	UTM:	6977250	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Mottled orangey-beige rock with minor-limonite pitted quartz domains. Dark, elongate, wavy micaceous patches. 3 0.2cm red patches; hematite?

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 6x5x2cm
I079860	UTM:	581077	E	UTM:	6977275	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Deep red, porous rock. Well pitted with minor dark micas. Hard scratch.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 10x7x3cm
I079861	UTM:	581105	E	UTM:	6977271	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Yellowy-orange limonite-matrix quartz microbreccia. Clear quartz clasts <0.3cm. Pitted limonitic matrix. Clasts loosely alligned parallel to long axis of rock sample. Several hairline fractures cut perpendicular to long axis.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 5x5x3cm
I079862	UTM:	581023	E	UTM:	5977225	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Cream-coloured rock with strong potassic alteration. Well pitted with dark, oxidized speckles. Splayed limonite veinlet, <0.1-0.3cm x 1cm.

Rock Sample Descriptions Project: Dawson Gold Property: Dan Man

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 7x5x5cm
I079863	UTM:	581097	E	UTM:	6977191	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Veinlet filled beige - reddish rock. Strong potassic alteration. Reddish veinlets crosscutting each other near 90 degrees. Vertical veinlets are straight, hard scratch, subhorizontal limonitic vienlets show minor crenulations. All veinlets <0.2cm wide.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
I079864	UTM:	580600	E	UTM:	6977100	N	Sample Width:	Abundance: 13x7x5cm
	Elevation:		m					

Comments: Beige rock with strong potassic alteration. 60% silica. 0.1cm limonitic microveinlets at 60 degrees to one another, the main vienlet cutting the faintly distinguishable relict fabric, the lesser veinlet parallel to fabric.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 11x10x5cm
I079865	UTM:	581115	E	UTM:	6977235	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Highly fractured, pitted, beige rock. Limonitic fractures cut perpendicular to one another, <0.1-0.2cm wide. 0.2cm rusty, limonitic pits, some of which are distinctly cubic suggesting weathered pyrite. Fracture infill is either orange or a darker brown colour. Well silicified.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 7x5x4cm
I079866	UTM:	581938	E	UTM:	6977595	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Silicified gneissic clast microbreccia with limonitie and calcite veinlets. In situe.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 10x7x4cm
I079867	UTM:	581938	E	UTM:	6977595	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Silicified gneissic clast microbreccia with limonitie and calcite veinlets.1-0.2cm wide veinlets, clast supported breccia. 0.2cm reddish-brown oxidized blebs. In situe.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 8x5x2cm
I079868	UTM:	581938	E	UTM:	6977595	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Feldpar rich mylonite with 7% oxidized pyrite, minor clear quartz veinlets, trace calcite veinlets perpendicular to fabric. Trace limonite veinlets. In situe adjacent to possible fault/shear zone. See KAM001691.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 15x10x5cm
I079869	UTM:	581938	E	UTM:	6977595	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Silicified gneissic clast microbreccia with limonitie and calcite veinlets.1-0.2cm wide veinlets. 0.2cm reddish-brown oxidized blebs. Dark patchy oxide mineral? Fine limonitic microveinlets throughout. Stong reaction to acid. In situe. See KAM001694.

Rock Sample Descriptions Project: Dawson Gold Property: Dan Man

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 7x7x4cm
I079870	UTM:	581932	E	UTM:	6977587	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Silicified, potassic-altered muscovite schist. 0.1cm silvery hematite veinlets. Trace pitted limonite.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 14x5x4cm
I079871	UTM:	581938	E	UTM:	6977595	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Silicified mafic gniess. Trace limonite and calcite veinlets. 1cm hematite/magnetite bleb. Strongly magnetic. Blocky.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 10x10x4cm
I079872	UTM:	581938	E	UTM:	6977595	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Silicified mafic gniess. Pervasive limonite and calcite veinlets. Patchy maroon hematitic staining. Blocky

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
I079873	UTM:	581953	E	UTM:	6977608	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Silicified clear quartz breccia set in fine-grained sulfide? matrix. Secondary limonite pitting and fracture infill. Quartz clasts range from 0.1-0.8cm. Faint calcite trace.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 6x3x2cm
I079874	UTM:	581950	E	UTM:	6977615	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Fully silicified, intermediate rock with dense limonite veinlets with calcite in the mix. Weak disseminated pyrite.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 17x5x3cm
I079875	UTM:	581938	E	UTM:	6977595	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Aphanitic dark bluish rock cut by pervasive limonite/calcite veinlets. 0.3cm limonite veinlet edged with 0.1cm calcite. Reacts vigorously to acid.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 12x7x4cm
I079876	UTM:	580955	E	UTM:	6977095	N	Sample Width:	Abundance:
	Elevation:		m					

Rock Sample Descriptions Project: Dawson Gold Property: Dan Man

Comments: Greenish-grey aphanitic rock with whitish speckles. Dense limonitic fracture infill and pitting. <0.1cm limonitic veinlets share common pathway with black oxide mineral. Found in creek.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 12x10x8cm
I079877	UTM:	580945	E	UTM:	6977080	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Felsic, fully silicified muscovite schist? Pervasive limonitic fracture infill. Minor quartz veinlet brecciation. Highly fractured. Minor manganese on outer surfaces. Found in creek.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension: 10x10x5cm
I079878	UTM:	580945	E	UTM:	6977080	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Aphanitic felsic rock, felsic dyke? Hard scratch. Highly fractured with strong and pervasive limonitic fracture infill. Microbrecciation where limonite is most intense. Found in creek.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
i079879	UTM:	580940	E	UTM:	6976995	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Intensely limonitic rock with wavy flowing linneations and flow-parallel limonitic and reddish-brown-weathering-resistant veinlets. 0.1cm whitish-orange feldspar? speckles. Well pitted. Found in creek.

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

Comments:

APPENDIX III

CERTIFICATES OF ANALYSIS

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 23- JUL- 2011
Account: F

CERTIFICATE WH11135393

Project: Arcus- Dan Man- Prospects

P.O. No.:

This report is for 7 Rock samples submitted to our lab in Whitehorse, YT, Canada on 17- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

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
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 23- JUL- 2011
Account: F

Project: Arcus- Dan Man- Prospects

CERTIFICATE OF ANALYSIS WH11135393

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I079851		0.20	<0.005	<0.2	0.38	18	<10	70	0.5	3	0.04	<0.5	1	4	4	0.84
I079852		0.32	<0.005	<0.2	0.29	10	<10	50	0.5	3	0.01	<0.5	1	4	8	0.85
I079853		0.46	0.006	0.2	1.60	3	<10	100	<0.5	2	1.36	<0.5	10	3	9	3.12
I079854		0.22	<0.005	<0.2	0.63	20	<10	100	0.6	3	0.09	<0.5	2	3	4	1.92
I079855		0.23	<0.005	<0.2	0.35	3	<10	40	<0.5	2	0.05	<0.5	2	6	2	1.32
I079856		0.29	0.033	<0.2	0.23	31	<10	30	0.5	2	0.01	<0.5	1	6	2	1.12
I079857		0.23	<0.005	<0.2	0.26	6	<10	50	<0.5	3	0.06	<0.5	1	10	1	0.86

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VANCOUVER BC V6B 1L8

Finalized Date: 23- JUL- 2011
Account: F

Project: Arcus- Dan Man- Prospects

CERTIFICATE OF ANALYSIS WH11135393

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I079851		<10	<1	0.12	20	0.02	62	2	0.08	<1	100	9	0.01	<2	1	7
I079852		<10	<1	0.15	20	0.01	64	2	0.06	7	70	8	0.02	<2	<1	4
I079853		<10	<1	0.03	<10	0.55	454	<1	0.02	5	260	5	0.53	<2	1	104
I079854		<10	<1	0.10	50	0.10	274	<1	0.07	1	170	18	0.01	<2	1	11
I079855		<10	<1	0.08	30	0.05	178	<1	0.14	1	200	3	0.01	<2	1	7
I079856		<10	<1	0.12	10	0.01	81	1	0.01	1	70	29	0.01	<2	<1	3
I079857		<10	<1	0.05	40	0.03	64	<1	0.13	1	160	2	0.01	<2	1	11

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Project: Arcus- Dan Man- Prospects

CERTIFICATE OF ANALYSIS WH11135393

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I079851		40	<0.01	<10	<10	3	<10	21
I079852		40	<0.01	<10	<10	2	<10	27
I079853		<20	0.10	<10	<10	22	<10	17
I079854		30	<0.01	<10	<10	3	<10	47
I079855		50	0.02	<10	<10	7	<10	15
I079856		<20	<0.01	<10	10	2	<10	7
I079857		40	0.01	<10	<10	12	<10	11

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

Finalized Date: 3- AUG- 2011
Account: F

CERTIFICATE WH11135394

Project: Arcus- Dan Man- Soils 1

P.O. No.:

This report is for 280 Soil samples submitted to our lab in Whitehorse, YT, Canada on 17- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 3- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 1

CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC144251		0.14	0.003	<0.2	2.11	9	<10	120	<0.5	<2	0.22	<0.5	11	35	21	3.38
CC144252		0.30	0.005	<0.2	1.90	8	<10	160	0.6	<2	0.30	<0.5	11	36	19	3.07
CC144253		0.27	0.006	0.2	2.07	10	<10	160	0.5	<2	0.29	<0.5	9	37	20	3.05
CC144254		0.29	0.004	<0.2	2.13	10	<10	170	0.8	<2	0.37	<0.5	9	48	24	3.19
CC144255		0.19	0.005	<0.2	2.20	8	<10	130	0.7	<2	0.23	<0.5	11	39	20	3.12
CC144256		0.26	0.006	<0.2	2.16	8	<10	150	0.7	<2	0.33	<0.5	8	41	24	3.14
CC144257		0.33	0.004	<0.2	1.86	10	<10	150	0.6	<2	0.37	<0.5	9	37	21	2.71
CC144258		0.30	0.005	<0.2	2.01	9	<10	180	0.7	<2	0.37	<0.5	7	39	23	2.85
CC144259		0.32	0.006	<0.2	1.76	4	<10	140	0.6	<2	0.36	<0.5	9	35	19	2.56
CC144260		0.25	0.003	<0.2	2.61	11	<10	170	0.6	<2	0.16	<0.5	12	47	21	3.60
CC144261		0.28	0.011	<0.2	1.79	6	<10	140	0.9	<2	0.39	<0.5	10	38	22	2.90
CC144262		0.11	0.004	<0.2	1.01	6	<10	130	0.5	<2	0.12	<0.5	9	18	13	1.95
CC144263		0.30	0.006	<0.2	2.34	11	<10	200	0.8	<2	0.34	<0.5	10	42	26	3.35
CC144264		0.14	0.004	<0.2	2.55	12	<10	160	0.7	<2	0.25	<0.5	8	38	20	3.46
CC144265		0.25	0.013	<0.2	1.54	7	<10	120	0.5	<2	0.47	<0.5	9	36	20	2.82
CC144266		0.16	0.006	0.2	2.34	13	<10	210	0.7	<2	0.32	<0.5	12	46	21	3.42
CC144267		0.22	0.003	0.4	2.24	37	<10	170	0.5	<2	0.25	<0.5	9	35	32	3.07
CC144268		0.34	0.020	<0.2	1.35	7	<10	110	<0.5	<2	0.31	<0.5	8	28	13	2.31
CC144269		0.29	0.013	0.2	2.39	8	<10	210	0.6	<2	0.33	<0.5	9	39	23	3.08
CC144270		0.25	0.013	0.2	2.02	10	<10	170	0.6	<2	0.31	<0.5	8	39	20	2.98
CC136831		0.22	0.011	<0.2	2.10	7	<10	160	0.5	<2	0.35	<0.5	9	37	23	2.85
CC136832		0.22	0.006	<0.2	1.83	7	<10	160	0.5	<2	0.37	<0.5	9	35	20	2.58
CC136833		0.21	0.009	0.3	2.44	9	<10	230	0.5	<2	0.42	<0.5	10	41	19	3.11
CC136834		0.22	0.005	<0.2	2.42	9	<10	200	0.5	<2	0.29	<0.5	12	37	24	3.28
CC136835		0.15	0.006	<0.2	1.99	7	<10	190	0.5	2	0.35	<0.5	8	36	24	2.74
CC136836		0.15	0.003	<0.2	1.48	6	<10	120	<0.5	<2	0.22	<0.5	7	27	15	2.30
CC136837		0.14	0.003	<0.2	3.10	8	<10	110	0.5	<2	0.15	<0.5	9	42	17	4.03
CC136838		0.24	0.009	<0.2	2.22	14	<10	190	0.5	<2	0.28	<0.5	12	35	14	3.81
CC136839		0.15	0.005	<0.2	2.12	11	<10	160	0.6	<2	0.18	<0.5	7	33	21	3.13
CC136840		0.16	0.014	<0.2	2.70	17	<10	200	0.8	2	0.27	<0.5	10	43	25	3.80
CC136841		0.14	0.014	<0.2	1.85	12	<10	190	0.8	<2	0.30	<0.5	9	36	15	2.91
CC136842		0.12	0.009	<0.2	1.75	9	<10	130	0.5	<2	0.15	<0.5	8	27	17	2.76
CC136843		0.24	0.134	<0.2	1.19	29	<10	140	0.8	<2	0.25	<0.5	7	25	13	2.16
CC136844		0.19	0.014	<0.2	1.87	15	<10	170	0.5	<2	0.23	<0.5	28	32	16	2.89
CC136845		0.27	0.023	<0.2	1.44	9	<10	110	0.5	<2	0.29	<0.5	9	30	13	2.45
CC136846		0.22	0.021	<0.2	1.38	9	<10	130	<0.5	<2	0.31	<0.5	8	29	14	2.34
CC136847		0.20	0.027	<0.2	2.19	14	<10	230	0.7	<2	0.32	<0.5	11	38	20	3.17
CC136848		0.23	0.010	<0.2	1.87	10	<10	200	0.6	<2	0.37	<0.5	9	33	19	2.56
CC136849		0.22	0.005	<0.2	2.01	9	<10	160	<0.5	<2	0.25	<0.5	9	35	17	3.23
CC136850		0.16	0.003	<0.2	1.64	7	<10	150	0.5	<2	0.21	<0.5	6	26	17	2.34

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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Project: Arcus- Dan Man- Soils 1

CERTIFICATE OF ANALYSIS WH11135394

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144251		10	1	0.08	10	0.50	497	1	0.02	19	450	10	0.02	<2	3	21
CC144252		10	1	0.06	10	0.50	579	1	0.02	20	440	10	0.01	<2	4	25
CC144253		10	<1	0.06	10	0.58	366	<1	0.02	23	530	9	0.01	<2	4	22
CC144254		10	<1	0.06	30	0.66	442	<1	0.03	26	590	10	0.01	<2	6	28
CC144255		10	<1	0.06	20	0.53	650	<1	0.02	23	440	11	0.01	<2	4	19
CC144256		10	<1	0.07	20	0.63	320	<1	0.03	23	530	12	0.01	<2	5	27
CC144257		10	<1	0.05	20	0.59	290	<1	0.03	23	520	9	0.01	<2	5	27
CC144258		10	1	0.05	30	0.57	283	1	0.03	22	490	11	<0.01	<2	6	29
CC144259		<10	<1	0.05	30	0.53	337	<1	0.03	21	490	10	<0.01	<2	5	27
CC144260		10	1	0.05	10	0.55	483	1	0.02	22	250	10	0.01	<2	5	19
CC144261		<10	<1	0.06	40	0.62	460	<1	0.03	25	540	10	0.01	<2	5	27
CC144262		10	<1	0.04	10	0.15	352	<1	0.03	10	350	8	0.02	<2	1	18
CC144263		10	1	0.05	20	0.62	403	<1	0.03	27	550	10	0.01	<2	5	24
CC144264		10	<1	0.07	10	0.49	350	1	0.03	23	420	13	0.02	<2	4	23
CC144265		<10	<1	0.05	20	0.53	373	1	0.04	21	740	9	0.01	<2	4	28
CC144266		10	1	0.08	20	0.56	761	1	0.03	26	590	12	0.02	<2	4	28
CC144267		10	<1	0.06	20	0.47	538	1	0.04	21	370	13	0.03	3	4	25
CC144268		<10	<1	0.05	10	0.45	384	<1	0.03	15	450	9	0.02	2	3	23
CC144269		10	<1	0.07	20	0.55	484	1	0.03	22	530	11	0.04	2	4	31
CC144270		10	<1	0.07	20	0.56	446	1	0.03	21	470	11	0.03	<2	4	28
CC136831		10	<1	0.05	20	0.59	372	1	0.03	22	540	9	0.03	2	5	26
CC136832		<10	<1	0.05	20	0.52	374	1	0.03	20	550	9	0.03	<2	5	27
CC136833		10	<1	0.07	20	0.52	554	1	0.03	23	570	10	0.04	2	5	33
CC136834		10	<1	0.07	20	0.53	610	1	0.03	21	710	11	0.03	2	4	27
CC136835		10	<1	0.07	20	0.43	355	1	0.01	24	430	9	0.01	<2	4	26
CC136836		10	<1	0.05	10	0.34	274	1	0.01	16	380	7	0.01	<2	2	17
CC136837		10	1	0.05	10	0.49	274	1	0.01	21	390	9	0.01	<2	4	14
CC136838		10	<1	0.06	10	0.49	884	1	0.01	21	1290	11	0.01	<2	4	21
CC136839		10	<1	0.05	20	0.39	283	1	0.01	17	440	12	0.01	<2	4	18
CC136840		10	<1	0.07	20	0.55	382	1	0.01	25	390	17	0.01	<2	5	26
CC136841		10	<1	0.07	20	0.47	415	1	0.01	20	510	13	0.01	<2	4	25
CC136842		10	<1	0.04	10	0.31	419	1	0.01	15	350	8	<0.01	<2	3	14
CC136843		<10	1	0.04	20	0.36	307	<1	0.01	15	410	14	<0.01	<2	3	24
CC136844		10	1	0.05	10	0.45	1780	1	0.01	18	590	13	0.02	<2	3	19
CC136845		<10	<1	0.05	20	0.41	348	<1	0.01	18	560	8	<0.01	<2	3	19
CC136846		<10	<1	0.05	20	0.41	278	<1	0.01	17	540	8	<0.01	<2	3	21
CC136847		10	1	0.06	20	0.53	479	1	0.01	23	660	11	0.02	<2	4	25
CC136848		<10	<1	0.05	30	0.40	345	1	0.01	20	390	10	0.01	<2	5	27
CC136849		10	<1	0.07	10	0.49	399	1	0.01	21	330	12	0.01	<2	4	22
CC136850		10	<1	0.06	20	0.30	273	1	0.01	16	430	11	0.01	<2	2	17

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144251		<20	0.11	<10	<10	81	<10	56
CC144252		<20	0.11	<10	<10	70	<10	58
CC144253		<20	0.11	<10	<10	69	<10	56
CC144254		<20	0.12	<10	<10	73	<10	61
CC144255		<20	0.11	<10	<10	70	<10	57
CC144256		<20	0.12	<10	<10	71	<10	54
CC144257		<20	0.12	<10	<10	63	<10	48
CC144258		<20	0.12	<10	<10	66	<10	51
CC144259		<20	0.12	<10	<10	60	<10	48
CC144260		<20	0.12	<10	<10	91	<10	64
CC144261		20	0.13	<10	<10	68	<10	55
CC144262		<20	0.05	<10	<10	44	<10	63
CC144263		<20	0.12	<10	<10	79	<10	56
CC144264		<20	0.11	<10	<10	80	<10	59
CC144265		<20	0.14	<10	<10	75	<10	54
CC144266		<20	0.11	<10	<10	77	<10	73
CC144267		<20	0.11	<10	<10	80	<10	49
CC144268		<20	0.11	<10	<10	57	<10	41
CC144269		<20	0.10	<10	<10	69	<10	57
CC144270		<20	0.10	<10	<10	69	<10	54
CC136831		<20	0.12	<10	<10	68	<10	48
CC136832		<20	0.11	<10	<10	62	<10	44
CC136833		<20	0.11	<10	<10	73	<10	53
CC136834		<20	0.11	<10	<10	78	<10	60
CC136835		<20	0.10	<10	<10	62	<10	48
CC136836		<20	0.07	<10	<10	57	<10	37
CC136837		<20	0.12	<10	<10	80	<10	54
CC136838		<20	0.12	<10	<10	86	<10	65
CC136839		<20	0.11	<10	<10	76	<10	47
CC136840		<20	0.12	<10	<10	94	<10	61
CC136841		<20	0.10	<10	<10	67	<10	59
CC136842		<20	0.09	<10	<10	64	<10	42
CC136843		20	0.08	<10	<10	46	<10	45
CC136844		<20	0.09	<10	<10	71	<10	55
CC136845		<20	0.11	<10	<10	61	<10	46
CC136846		<20	0.11	<10	<10	59	<10	46
CC136847		<20	0.09	<10	<10	71	<10	68
CC136848		<20	0.09	<10	10	58	<10	46
CC136849		<20	0.11	<10	<10	80	<10	51
CC136850		<20	0.07	<10	<10	56	<10	40

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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136851		0.21	0.007	<0.2	1.78	9	<10	200	0.5	<2	0.41	<0.5	9	34	18	2.69
CC136852		0.19	0.011	<0.2	1.66	8	<10	130	<0.5	<2	0.29	<0.5	8	31	14	3.17
CC136853		0.13	0.004	<0.2	1.45	6	<10	130	<0.5	<2	0.15	<0.5	7	24	14	2.50
CC136854		0.19	0.010	<0.2	1.63	6	<10	150	<0.5	<2	0.29	<0.5	7	30	15	2.60
CC136855		0.16	0.017	<0.2	1.99	9	<10	180	0.5	<2	0.31	<0.5	10	37	20	2.98
CC136856		0.23	0.007	<0.2	2.27	13	<10	170	0.5	<2	0.28	<0.5	11	39	19	3.67
CC136857		0.13	0.012	<0.2	2.10	12	<10	150	0.5	<2	0.19	<0.5	9	37	21	3.12
CC136858		0.17	0.005	<0.2	2.49	10	<10	160	0.6	2	0.29	<0.5	9	38	19	3.35
CC136859		0.20	0.004	<0.2	1.29	8	<10	70	<0.5	<2	0.13	<0.5	6	25	11	2.67
CC136860		0.18	0.008	<0.2	1.99	10	<10	210	0.6	<2	0.53	<0.5	9	35	20	2.56
CC136861		0.24	0.004	<0.2	1.43	8	<10	140	<0.5	<2	0.38	<0.5	7	30	15	2.38
CC136862		0.24	0.013	<0.2	1.36	8	<10	150	<0.5	2	0.39	<0.5	7	34	19	2.53
CC136863		0.25	0.005	<0.2	1.74	7	<10	130	<0.5	<2	0.32	<0.5	7	32	17	2.73
CC136864		0.23	0.005	<0.2	1.31	3	<10	110	<0.5	<2	0.42	<0.5	7	31	15	2.45
CC136865		0.16	0.005	<0.2	2.22	8	<10	120	<0.5	<2	0.21	<0.5	7	33	16	3.45
CC136866		0.27	0.006	<0.2	1.87	7	<10	150	<0.5	<2	0.29	<0.5	8	32	15	2.87
CC136867		0.15	0.004	<0.2	1.80	7	<10	110	<0.5	<2	0.14	<0.5	5	26	13	2.91
CC136868		0.24	0.007	<0.2	1.88	6	<10	170	<0.5	<2	0.26	<0.5	7	30	17	2.60
CC136869		0.15	0.012	<0.2	1.36	3	<10	110	<0.5	<2	0.33	<0.5	6	27	12	2.18
CC136870		0.29	0.010	<0.2	1.61	8	<10	140	0.6	<2	0.34	<0.5	7	36	20	2.58
CC136761		0.09	0.015	<0.2	2.23	10	<10	120	0.5	<2	0.17	<0.5	9	35	19	3.31
CC136762		0.13	0.017	<0.2	1.31	4	<10	120	0.6	<2	0.27	<0.5	4	20	16	1.79
CC136763		0.18	0.006	<0.2	2.27	11	<10	140	0.9	<2	0.15	<0.5	6	29	19	2.87
CC136764		0.09	0.042	<0.2	2.18	16	<10	210	1.1	<2	0.36	<0.5	8	34	21	2.75
CC136765		0.12	0.073	0.2	2.12	20	<10	200	0.6	<2	0.34	<0.5	10	35	19	2.91
CC136766		0.15	0.021	<0.2	1.76	11	<10	170	0.5	<2	0.25	<0.5	11	34	18	2.86
CC136767		0.10	0.045	<0.2	1.56	7	<10	130	<0.5	<2	0.21	<0.5	5	28	15	2.01
CC136768		0.11	0.016	<0.2	1.78	10	<10	120	<0.5	<2	0.36	<0.5	7	32	14	2.68
CC136769		0.07	0.011	0.2	1.57	5	<10	220	0.5	<2	0.31	<0.5	9	26	17	2.36
CC136770		0.22	0.011	<0.2	1.94	6	<10	150	0.5	<2	0.32	<0.5	10	37	19	2.45
CC136771		0.09	0.015	<0.2	2.00	5	<10	130	<0.5	<2	0.28	<0.5	6	30	16	2.80
CC136772		0.14	0.018	<0.2	1.76	7	<10	150	<0.5	<2	0.24	<0.5	7	30	15	2.51
CC136773		0.19	0.006	<0.2	1.96	6	<10	150	<0.5	<2	0.34	<0.5	9	36	18	2.93
CC136774		0.20	0.015	<0.2	2.40	8	<10	150	0.5	<2	0.19	<0.5	7	38	17	3.67
CC136775		0.22	0.005	<0.2	2.16	7	<10	160	0.5	<2	0.24	<0.5	7	31	18	2.99
CC136776		0.15	0.007	<0.2	1.26	4	<10	120	<0.5	<2	0.18	0.5	5	21	14	1.99
CC136777		0.15	0.005	0.2	2.72	10	<10	230	0.6	<2	0.38	<0.5	11	38	25	3.55
CC136778		0.24	0.006	<0.2	1.73	6	<10	110	<0.5	<2	0.28	<0.5	9	32	15	2.76
CC136779		0.08	0.002	0.2	0.53	2	<10	60	<0.5	<2	0.09	<0.5	2	9	7	0.75
CC136780		0.17	0.008	<0.2	1.79	7	<10	180	<0.5	<2	0.58	<0.5	7	30	19	2.51

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	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136851		<10	<1	0.06	20	0.48	416	1	0.01	23	500	9	0.01	<2	4	28
CC136852		10	<1	0.06	10	0.49	613	1	0.01	20	710	9	<0.01	<2	3	18
CC136853		<10	1	0.04	10	0.26	304	1	0.01	12	370	8	0.01	<2	3	13
CC136854		10	<1	0.05	20	0.42	322	1	0.01	18	400	11	0.01	<2	3	22
CC136855		10	<1	0.06	20	0.46	532	1	0.01	23	510	12	0.01	<2	4	22
CC136856		10	<1	0.06	10	0.60	435	1	0.01	28	490	13	0.01	<2	4	22
CC136857		10	<1	0.07	20	0.48	356	1	0.01	22	430	12	0.01	<2	4	16
CC136858		10	<1	0.06	20	0.54	334	1	0.01	23	420	10	0.01	<2	4	21
CC136859		10	<1	0.05	10	0.28	363	1	<0.01	11	470	13	<0.01	<2	2	11
CC136860		10	<1	0.06	40	0.41	412	1	0.01	21	650	13	0.03	<2	5	32
CC136861		<10	<1	0.05	20	0.45	343	1	0.01	18	380	7	<0.01	<2	4	25
CC136862		<10	1	0.05	20	0.49	330	<1	0.01	20	430	7	<0.01	<2	6	26
CC136863		10	<1	0.05	20	0.50	311	1	0.01	19	320	9	<0.01	<2	4	23
CC136864		<10	<1	0.05	20	0.50	312	<1	0.02	18	540	7	<0.01	<2	4	27
CC136865		10	<1	0.06	20	0.50	285	1	0.01	20	310	10	<0.01	<2	4	19
CC136866		10	<1	0.05	10	0.49	297	1	0.01	19	390	9	<0.01	<2	4	21
CC136867		10	<1	0.06	10	0.32	192	1	0.01	15	330	11	<0.01	<2	3	13
CC136868		10	<1	0.05	20	0.36	314	1	0.01	17	300	10	<0.01	<2	3	22
CC136869		<10	<1	0.05	10	0.42	254	<1	0.01	16	390	6	<0.01	<2	3	23
CC136870		<10	<1	0.05	30	0.42	235	1	0.01	18	390	12	<0.01	<2	5	25
CC136761		10	<1	0.06	10	0.45	359	1	0.01	19	410	11	0.01	<2	3	16
CC136762		<10	<1	0.04	20	0.20	141	1	0.01	10	630	7	0.02	<2	1	26
CC136763		10	<1	0.06	10	0.35	197	1	0.01	16	280	14	<0.01	<2	4	17
CC136764		10	<1	0.07	20	0.43	374	1	0.01	18	660	15	0.03	<2	5	31
CC136765		10	<1	0.06	10	0.49	522	1	0.01	19	640	14	0.03	<2	4	29
CC136766		10	<1	0.05	10	0.44	546	1	0.01	19	450	10	0.01	<2	3	24
CC136767		10	<1	0.05	10	0.33	167	1	0.01	13	470	8	0.02	<2	3	20
CC136768		10	1	0.05	10	0.51	227	<1	0.01	17	650	8	0.01	<2	4	25
CC136769		<10	<1	0.04	20	0.36	779	1	0.01	17	640	7	0.03	<2	3	26
CC136770		<10	<1	0.05	20	0.60	222	<1	0.01	21	650	7	<0.01	<2	4	21
CC136771		10	<1	0.06	20	0.36	232	1	0.01	17	450	11	0.02	<2	3	23
CC136772		10	<1	0.05	20	0.37	307	1	0.01	17	380	8	0.01	<2	3	20
CC136773		10	<1	0.05	20	0.57	354	1	0.01	22	350	8	<0.01	<2	4	25
CC136774		10	<1	0.07	10	0.52	343	1	0.01	20	340	13	<0.01	<2	4	19
CC136775		10	<1	0.05	20	0.43	265	1	0.01	17	340	10	<0.01	<2	4	21
CC136776		10	<1	0.06	10	0.26	204	1	0.01	13	480	9	0.02	<2	1	20
CC136777		10	<1	0.07	20	0.56	482	1	0.02	26	400	14	0.01	<2	4	32
CC136778		<10	<1	0.05	20	0.51	379	1	0.01	19	360	8	<0.01	<2	4	19
CC136779		<10	<1	0.03	10	0.08	43	<1	0.03	4	190	6	0.03	<2	1	12
CC136780		10	<1	0.06	20	0.44	353	1	0.01	20	480	10	0.01	<2	3	37

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 3- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 1

CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC136851		<20	0.10	<10	<10	65	<10	51
CC136852		<20	0.12	<10	<10	80	<10	64
CC136853		<20	0.08	<10	<10	61	<10	37
CC136854		<20	0.10	<10	<10	67	<10	47
CC136855		<20	0.10	<10	<10	72	<10	50
CC136856		<20	0.12	<10	<10	81	<10	58
CC136857		<20	0.11	<10	<10	77	<10	53
CC136858		<20	0.11	<10	<10	77	<10	60
CC136859		<20	0.13	<10	<10	81	<10	42
CC136860		<20	0.09	<10	<10	62	<10	57
CC136861		<20	0.10	<10	<10	58	<10	46
CC136862		<20	0.12	<10	<10	62	<10	50
CC136863		<20	0.11	<10	<10	68	<10	50
CC136864		<20	0.12	<10	<10	62	<10	45
CC136865		<20	0.12	<10	<10	95	<10	53
CC136866		<20	0.11	<10	<10	67	<10	47
CC136867		<20	0.13	<10	<10	85	<10	39
CC136868		<20	0.10	<10	<10	63	<10	41
CC136869		<20	0.10	<10	<10	53	<10	39
CC136870		<20	0.11	<10	10	57	<10	43
CC136761		<20	0.10	<10	<10	80	<10	48
CC136762		<20	0.05	<10	<10	37	<10	29
CC136763		<20	0.09	<10	<10	66	<10	44
CC136764		<20	0.08	<10	10	58	<10	55
CC136765		<20	0.09	<10	<10	67	<10	57
CC136766		<20	0.10	<10	<10	72	<10	56
CC136767		<20	0.08	<10	<10	51	<10	43
CC136768		<20	0.10	<10	<10	67	<10	54
CC136769		<20	0.07	<10	<10	50	<10	44
CC136770		<20	0.10	<10	<10	61	<10	52
CC136771		<20	0.09	<10	<10	71	<10	44
CC136772		<20	0.09	<10	<10	63	<10	41
CC136773		<20	0.12	<10	<10	70	<10	50
CC136774		<20	0.13	<10	<10	98	<10	58
CC136775		<20	0.11	<10	<10	76	<10	45
CC136776		<20	0.06	<10	<10	53	<10	34
CC136777		<20	0.11	<10	<10	86	<10	62
CC136778		<20	0.12	<10	<10	64	<10	47
CC136779		<20	0.05	<10	<10	24	<10	14
CC136780		<20	0.09	<10	<10	60	<10	55

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136781		0.12	0.005	0.2	2.02	5	<10	190	0.6	<2	0.56	<0.5	6	29	20	2.28
CC136782		0.10	0.004	0.2	1.11	3	<10	100	<0.5	<2	0.12	<0.5	4	19	20	1.85
CC136783		0.23	0.008	<0.2	1.92	7	<10	170	0.6	<2	0.44	<0.5	8	35	20	2.80
CC136784		0.31	0.002	<0.2	1.65	6	<10	140	<0.5	<2	0.35	<0.5	7	32	14	2.67
CC136785		0.18	0.001	<0.2	1.05	7	<10	80	<0.5	<2	0.20	<0.5	4	18	8	1.85
CC136786		0.20	0.001	<0.2	2.64	8	<10	140	0.5	<2	0.16	<0.5	10	37	17	3.66
CC136787		0.20	<0.001	<0.2	2.56	7	<10	230	0.6	<2	0.39	<0.5	8	40	22	3.16
CC136788		0.26	<0.001	<0.2	1.59	6	<10	130	<0.5	<2	0.34	<0.5	7	31	13	2.38
CC136789		0.18	0.009	<0.2	1.89	7	<10	210	0.5	<2	0.30	<0.5	10	31	24	2.60
CC136790		0.19	0.005	<0.2	1.68	7	<10	170	<0.5	<2	0.33	<0.5	8	30	15	2.44
CC136801		0.18	0.008	<0.2	2.88	12	<10	260	0.8	<2	0.31	<0.5	11	46	29	3.70
CC136802		0.23	0.007	<0.2	2.46	11	<10	220	0.6	<2	0.32	<0.5	11	37	19	3.41
CC136803		0.16	0.005	<0.2	1.97	6	<10	150	0.6	<2	0.15	<0.5	8	27	17	2.78
CC136804		0.25	0.007	<0.2	1.65	8	<10	140	<0.5	<2	0.28	<0.5	8	31	16	2.75
CC136805		0.17	0.004	<0.2	2.20	8	<10	170	0.5	<2	0.26	<0.5	10	34	19	3.20
CC136806		0.15	0.012	<0.2	2.39	9	<10	230	0.5	<2	0.29	<0.5	11	42	21	3.43
CC136807		0.19	0.003	<0.2	1.94	5	<10	180	0.5	<2	0.18	<0.5	7	29	23	2.89
CC136808		0.19	0.005	<0.2	2.76	9	<10	220	0.7	<2	0.33	<0.5	11	42	24	3.62
CC136809		0.18	0.007	<0.2	2.19	12	<10	170	0.5	<2	0.26	<0.5	11	39	22	3.28
CC136810		0.22	0.006	<0.2	1.54	7	<10	130	0.5	<2	0.34	<0.5	8	30	20	2.44
CC136811		0.12	0.003	<0.2	1.77	8	<10	170	<0.5	<2	0.18	<0.5	7	26	18	2.84
CC136812		0.11	0.001	<0.2	0.70	2	<10	90	<0.5	<2	0.10	<0.5	2	12	8	1.34
CC136813		0.23	0.003	<0.2	2.83	12	<10	150	0.7	<2	0.23	<0.5	11	44	22	3.62
CC136814		0.21	0.004	<0.2	2.12	11	<10	130	<0.5	<2	0.14	<0.5	7	30	17	3.65
CC136815		0.25	0.005	<0.2	2.62	8	<10	160	0.7	<2	0.21	<0.5	11	43	24	3.44
CC136816		0.18	0.006	<0.2	2.17	9	<10	210	0.5	<2	0.35	<0.5	10	34	19	3.06
CC136817		0.19	0.002	<0.2	2.42	10	<10	150	<0.5	<2	0.16	<0.5	7	32	14	3.92
CC136818		0.22	0.004	<0.2	2.84	10	<10	160	0.8	<2	0.12	<0.5	18	37	25	3.56
CC136819		0.20	0.005	<0.2	2.25	11	<10	110	<0.5	<2	0.25	<0.5	9	36	16	3.64
CC136820		0.25	0.008	<0.2	2.21	8	<10	190	0.6	<2	0.28	<0.5	10	39	19	3.16
CC136821		0.13	0.010	<0.2	3.23	11	<10	370	0.8	<2	0.69	<0.5	11	46	29	3.81
CC136822		0.23	0.022	<0.2	1.89	11	<10	160	0.6	<2	0.37	<0.5	9	34	19	2.81
CC136823		0.16	0.027	<0.2	1.57	10	<10	80	<0.5	<2	0.24	<0.5	9	31	13	2.89
CC136824		0.16	0.014	<0.2	1.85	16	<10	80	<0.5	<2	0.16	<0.5	11	34	15	3.83
CC136825		0.13	0.010	<0.2	1.24	3	<10	120	0.9	<2	0.14	<0.5	4	20	19	1.59
CC136826		0.14	0.016	<0.2	2.13	11	<10	170	0.7	<2	0.26	<0.5	13	36	15	2.96
CC136827		0.25	0.019	<0.2	2.07	10	<10	200	1.0	<2	0.30	<0.5	11	34	21	3.02
CC136828		0.22	0.026	<0.2	1.65	8	<10	160	0.7	<2	0.32	<0.5	8	31	18	2.53
CC136829		0.19	0.015	<0.2	2.47	15	<10	190	0.8	<2	0.26	<0.5	12	42	21	3.70
CC136830		0.22	0.006	<0.2	1.87	9	<10	130	0.5	<2	0.28	<0.5	10	32	18	2.73

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North Vancouver BC V7H 0A7
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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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136781		10	<1	0.05	40	0.36	213	1	0.02	18	440	11	0.02	<2	4	38
CC136782		10	<1	0.05	10	0.22	128	1	0.01	12	210	9	<0.01	<2	2	14
CC136783		10	<1	0.06	30	0.47	411	1	0.01	20	580	11	<0.01	<2	5	30
CC136784		<10	<1	0.05	20	0.52	349	1	0.01	18	360	8	<0.01	<2	4	25
CC136785		10	<1	0.06	10	0.20	170	1	0.01	11	330	7	<0.01	<2	2	15
CC136786		10	<1	0.05	10	0.51	258	1	0.01	22	310	10	<0.01	<2	3	18
CC136787		10	<1	0.06	30	0.50	351	1	0.02	23	500	9	0.01	<2	5	32
CC136788		<10	<1	0.05	10	0.46	256	1	0.01	18	370	7	<0.01	<2	3	24
CC136789		<10	<1	0.05	20	0.37	374	<1	0.02	27	410	14	<0.01	<2	4	23
CC136790		<10	<1	0.05	10	0.42	400	<1	0.02	18	380	10	<0.01	<2	3	25
CC136801		10	1	0.07	30	0.58	621	<1	0.03	30	470	13	<0.01	<2	6	29
CC136802		10	<1	0.07	10	0.55	482	<1	0.02	28	460	11	<0.01	<2	4	24
CC136803		10	<1	0.05	30	0.34	369	<1	0.02	15	280	10	<0.01	<2	4	16
CC136804		<10	<1	0.05	10	0.48	419	<1	0.02	20	330	10	<0.01	<2	3	21
CC136805		10	1	0.06	20	0.55	436	<1	0.02	21	380	13	<0.01	<2	4	22
CC136806		10	<1	0.07	20	0.55	798	<1	0.02	27	500	15	<0.01	<2	4	26
CC136807		10	<1	0.05	40	0.34	418	<1	0.02	14	440	15	<0.01	<2	4	20
CC136808		10	<1	0.06	30	0.63	535	<1	0.03	26	380	15	<0.01	<2	6	28
CC136809		10	<1	0.07	20	0.56	574	<1	0.03	27	530	14	<0.01	<2	4	20
CC136810		<10	1	0.05	20	0.41	449	<1	0.03	21	560	13	<0.01	<2	3	23
CC136811		10	<1	0.06	10	0.38	248	<1	0.02	16	260	12	<0.01	<2	3	22
CC136812		<10	<1	0.03	10	0.10	104	<1	0.03	5	270	7	<0.01	<2	1	13
CC136813		10	<1	0.06	10	0.63	356	<1	0.02	26	220	13	<0.01	<2	5	23
CC136814		10	<1	0.05	10	0.38	225	<1	0.02	16	260	13	<0.01	<2	3	15
CC136815		10	<1	0.05	30	0.60	364	<1	0.02	23	190	11	<0.01	<2	6	23
CC136816		10	<1	0.07	20	0.51	507	<1	0.03	21	470	13	<0.01	<2	4	32
CC136817		10	<1	0.05	10	0.47	368	<1	0.02	17	490	13	<0.01	<2	4	15
CC136818		10	1	0.07	20	0.44	852	<1	0.03	22	430	14	<0.01	<2	5	14
CC136819		10	<1	0.07	10	0.51	325	<1	0.02	22	280	11	<0.01	<2	3	22
CC136820		10	<1	0.05	20	0.55	352	<1	0.02	24	300	10	<0.01	<2	4	24
CC136821		10	<1	0.08	40	0.55	535	<1	0.03	30	680	13	0.03	<2	6	58
CC136822		10	<1	0.05	20	0.49	509	<1	0.03	21	720	11	<0.01	<2	4	27
CC136823		10	<1	0.05	10	0.40	400	<1	0.02	17	550	12	<0.01	<2	3	17
CC136824		10	<1	0.05	10	0.48	522	<1	0.02	18	400	14	<0.01	<2	3	13
CC136825		<10	<1	0.03	10	0.14	141	<1	0.02	10	640	6	0.03	<2	1	14
CC136826		10	<1	0.06	20	0.43	737	<1	0.02	18	610	14	0.01	<2	4	22
CC136827		10	<1	0.06	20	0.50	549	<1	0.02	21	550	13	<0.01	<2	5	23
CC136828		<10	<1	0.04	20	0.48	371	<1	0.02	18	460	11	<0.01	<2	4	25
CC136829		10	1	0.06	20	0.53	693	<1	0.02	23	690	15	<0.01	<2	4	26
CC136830		10	<1	0.05	20	0.42	465	<1	0.02	18	500	11	<0.01	<2	3	24

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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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VANCOUVER BC V6B 1L8

Finalized Date: 3- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 1

CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC136781		<20	0.08	<10	<10	52	<10	44
CC136782		<20	0.09	<10	<10	50	<10	32
CC136783		<20	0.10	<10	<10	65	<10	59
CC136784		<20	0.11	<10	<10	63	<10	51
CC136785		<20	0.09	<10	<10	54	<10	35
CC136786		<20	0.12	<10	<10	89	<10	56
CC136787		<20	0.10	<10	<10	70	<10	57
CC136788		<20	0.10	<10	<10	56	<10	46
CC136789		<20	0.09	<10	<10	59	<10	53
CC136790		<20	0.09	<10	<10	60	<10	48
CC136801		<20	0.11	<10	<10	85	<10	62
CC136802		<20	0.11	<10	<10	77	<10	60
CC136803		<20	0.09	<10	<10	70	<10	43
CC136804		<20	0.10	<10	<10	66	<10	49
CC136805		<20	0.11	<10	<10	75	<10	57
CC136806		<20	0.10	<10	<10	79	<10	67
CC136807		<20	0.10	<10	<10	78	<10	44
CC136808		<20	0.12	<10	<10	85	<10	64
CC136809		<20	0.12	<10	<10	74	<10	64
CC136810		<20	0.10	<10	<10	60	<10	56
CC136811		<20	0.11	<10	<10	81	<10	51
CC136812		<20	0.04	<10	<10	33	<10	16
CC136813		<20	0.12	<10	<10	83	<10	60
CC136814		<20	0.12	<10	<10	96	<10	50
CC136815		<20	0.11	<10	<10	83	<10	60
CC136816		<20	0.10	<10	<10	73	<10	61
CC136817		<20	0.11	<10	<10	99	<10	57
CC136818		<20	0.10	<10	<10	80	<10	51
CC136819		<20	0.11	<10	<10	83	<10	53
CC136820		<20	0.10	<10	<10	75	<10	52
CC136821		<20	0.09	<10	<10	83	<10	60
CC136822		<20	0.10	<10	<10	66	<10	64
CC136823		<20	0.11	<10	<10	70	<10	53
CC136824		<20	0.13	<10	<10	96	<10	57
CC136825		<20	0.04	<10	<10	31	<10	24
CC136826		<20	0.09	<10	<10	67	<10	55
CC136827		<20	0.10	<10	<10	69	<10	57
CC136828		<20	0.11	<10	<10	61	<10	48
CC136829		<20	0.12	<10	<10	87	<10	65
CC136830		<20	0.10	<10	<10	65	<10	50

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC144365		0.30	0.009	<0.2	1.73	4	<10	130	<0.5	<2	0.34	<0.5	9	31	14	2.52
CC144366		0.13	0.086	<0.2	1.45	10	<10	120	<0.5	<2	0.20	<0.5	7	26	12	2.47
CC144367		0.20	0.010	<0.2	2.28	14	<10	190	<0.5	<2	0.15	<0.5	9	36	16	3.63
CC144368		0.17	0.004	<0.2	2.32	10	<10	180	0.7	<2	0.20	<0.5	8	34	21	3.25
CC144369		0.14	0.014	0.2	2.63	9	<10	240	0.8	<2	0.30	<0.5	9	41	27	3.48
CC144370		0.12	0.007	<0.2	2.03	11	<10	100	<0.5	<2	0.15	<0.5	8	35	13	3.87
CC144371		0.30	0.036	<0.2	1.40	11	<10	140	0.7	<2	0.29	<0.5	7	29	13	2.43
CC144372		0.16	0.116	0.2	1.85	32	<10	200	0.7	<2	0.35	<0.5	9	33	15	2.71
CC144373		0.25	0.018	<0.2	1.37	7	<10	150	0.5	<2	0.20	<0.5	18	25	14	2.27
CC144374		0.27	0.033	<0.2	1.45	7	<10	160	0.6	<2	0.29	<0.5	8	30	16	2.34
CC144375		0.22	0.037	<0.2	1.78	13	<10	140	0.5	<2	0.23	<0.5	11	34	17	3.03
CC144376		0.31	0.018	<0.2	1.98	5	<10	210	0.5	<2	0.34	<0.5	9	35	20	2.65
CC144377		0.11	0.004	0.2	3.09	5	<10	140	0.6	<2	0.13	<0.5	8	36	17	3.44
CC144378		0.17	0.003	<0.2	1.97	5	<10	210	0.5	<2	0.34	<0.5	9	32	18	2.80
CC144379		0.20	0.007	0.2	3.12	8	<10	360	0.9	<2	0.50	<0.5	12	44	30	3.65
CC144380		0.14	0.002	<0.2	1.97	8	<10	140	<0.5	<2	0.15	<0.5	8	30	14	3.30
CC144381		0.18	0.004	<0.2	2.53	8	<10	230	0.6	<2	0.34	<0.5	16	37	19	3.56
CC144382		0.24	0.003	<0.2	2.14	6	<10	220	0.5	<2	0.37	<0.5	9	36	19	3.05
CC144383		0.15	0.004	0.2	2.04	6	<10	210	0.5	<2	0.37	<0.5	10	34	19	2.99
CC144384		0.12	0.006	<0.2	2.02	7	<10	200	0.6	<2	0.28	<0.5	11	35	20	2.97
CC144385		0.17	0.001	0.3	1.25	4	<10	110	<0.5	<2	0.13	<0.5	6	21	18	2.43
CC144386		0.10	0.003	<0.2	0.75	2	<10	70	<0.5	<2	0.10	<0.5	3	13	10	1.53
CC144387		0.20	0.005	0.2	2.49	10	<10	290	0.8	<2	0.35	<0.5	10	39	27	3.45
CC144388		0.21	0.009	<0.2	1.96	6	<10	190	0.6	<2	0.35	<0.5	10	37	18	2.98
CC144389		0.19	0.005	<0.2	1.96	8	<10	140	<0.5	<2	0.30	<0.5	9	31	14	3.06
CC144390		0.18	0.002	<0.2	1.62	5	<10	150	<0.5	<2	0.27	<0.5	5	24	14	2.38
CC144391		0.13	0.005	0.2	2.48	7	<10	290	0.7	<2	0.55	<0.5	9	36	23	3.25
CC144392		0.14	0.004	<0.2	1.99	6	<10	160	<0.5	<2	0.31	<0.5	7	33	16	3.02
CC144393		0.20	0.004	<0.2	2.39	8	<10	210	0.6	<2	0.22	<0.5	8	35	20	3.26
CC144394		0.18	0.007	<0.2	1.67	3	<10	140	<0.5	<2	0.30	<0.5	7	31	17	2.58
CC144395		0.10	0.003	<0.2	0.71	<2	<10	50	<0.5	<2	0.08	<0.5	2	12	7	1.53
CC144396		0.14	0.006	0.2	2.22	6	<10	260	0.5	<2	0.40	<0.5	9	36	23	2.88
CC144397		0.11	0.009	0.2	2.78	8	<10	300	0.7	<2	0.46	<0.5	8	39	28	3.31
CC144398		0.26	0.003	<0.2	1.13	2	<10	110	<0.5	<2	0.31	<0.5	6	26	13	2.05
CC144399		0.15	0.003	0.2	1.83	3	<10	90	<0.5	<2	0.09	<0.5	4	22	19	2.23
CC144331		0.18	0.002	<0.2	2.65	8	<10	130	0.5	<2	0.14	<0.5	8	40	18	4.00
CC144332		0.09	0.005	0.2	1.90	5	<10	220	0.5	<2	0.27	0.7	11	32	21	3.02
CC144333		0.25	0.004	0.2	2.28	9	<10	200	0.6	<2	0.30	<0.5	9	38	22	3.54
CC144334		0.23	0.006	<0.2	2.29	7	<10	130	0.6	<2	0.25	<0.5	10	39	19	3.25
CC144335		0.22	0.005	<0.2	2.45	10	<10	190	0.5	<2	0.24	<0.5	9	41	19	3.91

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH11135394

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144365		<10	<1	0.04	10	0.46	336	<1	0.02	17	390	8	<0.01	<2	3	25
CC144366		10	<1	0.05	10	0.32	293	<1	0.02	15	530	10	<0.01	<2	2	17
CC144367		10	<1	0.07	10	0.48	354	<1	0.02	20	440	13	<0.01	<2	4	15
CC144368		10	<1	0.06	10	0.43	320	<1	0.02	20	370	13	<0.01	<2	4	20
CC144369		10	<1	0.07	20	0.55	350	1	0.01	25	710	15	0.03	<2	5	27
CC144370		10	<1	0.05	10	0.46	370	2	0.01	18	360	14	0.01	<2	3	15
CC144371		<10	<1	0.05	20	0.45	305	1	0.01	17	400	9	0.01	<2	4	24
CC144372		10	<1	0.06	10	0.43	581	1	0.01	19	570	17	0.04	<2	3	32
CC144373		10	<1	0.04	10	0.34	1145	1	0.01	15	480	10	0.03	<2	3	18
CC144374		<10	<1	0.05	20	0.39	272	1	0.01	15	560	8	0.02	2	4	23
CC144375		10	<1	0.05	20	0.47	601	1	0.01	21	480	11	0.02	<2	3	19
CC144376		10	<1	0.05	20	0.53	266	1	0.01	21	640	8	0.02	<2	5	25
CC144377		10	<1	0.05	10	0.45	212	1	0.01	20	280	12	0.02	<2	4	13
CC144378		10	<1	0.07	20	0.44	684	1	0.01	20	460	11	0.03	<2	3	29
CC144379		10	<1	0.07	40	0.50	836	1	0.02	28	610	13	0.03	<2	6	42
CC144380		10	<1	0.06	10	0.45	390	2	0.01	18	380	11	0.02	<2	3	16
CC144381		10	<1	0.08	20	0.51	1170	2	0.01	23	500	13	0.03	<2	4	32
CC144382		10	<1	0.06	20	0.46	410	1	0.01	23	470	11	0.02	<2	4	29
CC144383		10	<1	0.06	20	0.46	743	1	0.01	20	540	12	0.02	<2	4	28
CC144384		10	<1	0.06	20	0.45	515	1	0.01	20	460	13	0.02	<2	4	24
CC144385		10	<1	0.03	10	0.26	287	2	0.01	11	270	11	0.02	<2	2	16
CC144386		<10	1	0.04	<10	0.14	80	1	0.01	7	270	7	0.02	<2	1	11
CC144387		10	<1	0.07	30	0.51	567	1	0.01	25	590	15	0.03	<2	5	31
CC144388		10	<1	0.06	20	0.54	487	1	0.01	22	460	11	0.02	<2	5	27
CC144389		10	<1	0.06	10	0.46	468	1	0.01	19	360	12	0.02	<2	3	22
CC144390		10	1	0.06	10	0.33	319	1	0.02	13	320	10	0.02	<2	3	23
CC144391		10	<1	0.07	30	0.51	482	1	0.02	23	520	12	0.03	<2	5	39
CC144392		10	<1	0.07	20	0.49	370	1	0.01	20	440	11	0.03	<2	3	25
CC144393		10	<1	0.05	30	0.50	306	1	0.01	21	370	10	0.02	<2	5	22
CC144394		<10	<1	0.05	20	0.45	317	1	0.01	19	430	7	0.02	<2	3	23
CC144395		10	<1	0.03	<10	0.11	85	1	<0.01	6	290	6	0.02	<2	1	9
CC144396		10	1	0.06	30	0.48	425	1	0.01	23	480	11	0.02	<2	5	32
CC144397		10	<1	0.07	40	0.51	375	1	0.01	26	590	11	0.04	<2	6	38
CC144398		<10	<1	0.04	20	0.39	290	<1	0.01	14	350	7	0.01	<2	3	22
CC144399		10	<1	0.03	20	0.19	161	2	0.01	11	280	9	0.02	<2	3	11
CC144331		10	1	0.06	10	0.57	271	1	<0.01	21	360	12	0.01	<2	5	16
CC144332		10	<1	0.09	20	0.40	781	1	0.01	19	760	12	0.04	<2	2	25
CC144333		10	<1	0.06	20	0.55	436	1	0.01	22	430	12	0.02	<2	4	27
CC144334		10	<1	0.06	20	0.60	395	1	0.01	25	470	9	0.01	<2	4	19
CC144335		10	<1	0.08	10	0.62	435	2	0.01	25	400	12	0.02	<2	4	25

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CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144365		<20	0.11	<10	<10	63	<10	44
CC144366		<20	0.09	<10	<10	62	<10	46
CC144367		<20	0.12	<10	<10	95	<10	62
CC144368		<20	0.11	<10	<10	79	<10	52
CC144369		<20	0.09	<10	<10	80	<10	62
CC144370		<20	0.11	<10	<10	90	<10	53
CC144371		<20	0.10	<10	<10	56	<10	45
CC144372		<20	0.07	<10	<10	62	<10	57
CC144373		<20	0.08	<10	<10	56	<10	44
CC144374		<20	0.10	<10	<10	56	<10	46
CC144375		<20	0.09	<10	<10	68	<10	58
CC144376		<20	0.10	<10	<10	60	<10	57
CC144377		<20	0.10	<10	10	76	<10	50
CC144378		<20	0.09	<10	<10	68	<10	52
CC144379		<20	0.08	<10	<10	77	<10	57
CC144380		<20	0.10	<10	<10	82	<10	49
CC144381		<20	0.10	<10	<10	84	<10	58
CC144382		<20	0.09	<10	<10	71	<10	53
CC144383		<20	0.09	<10	<10	72	<10	56
CC144384		<20	0.09	<10	<10	69	<10	48
CC144385		<20	0.08	<10	<10	58	<10	29
CC144386		<20	0.06	<10	<10	42	<10	19
CC144387		<20	0.09	<10	<10	76	<10	60
CC144388		<20	0.10	<10	<10	68	<10	60
CC144389		<20	0.10	<10	<10	73	<10	55
CC144390		<20	0.10	<10	<10	63	<10	44
CC144391		<20	0.10	<10	<10	74	<10	58
CC144392		<20	0.10	<10	<10	74	<10	54
CC144393		<20	0.10	<10	<10	80	<10	51
CC144394		<20	0.09	<10	<10	62	<10	49
CC144395		<20	0.08	<10	<10	54	<10	25
CC144396		<20	0.09	<10	<10	66	<10	56
CC144397		<20	0.09	<10	<10	75	<10	63
CC144398		<20	0.10	<10	<10	51	<10	39
CC144399		<20	0.07	<10	10	52	<10	28
CC144331		<20	0.13	<10	<10	95	<10	59
CC144332		<20	0.08	<10	<10	74	<10	69
CC144333		<20	0.10	<10	<10	81	<10	59
CC144334		<20	0.12	<10	<10	78	<10	55
CC144335		<20	0.12	<10	<10	95	<10	61

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Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC144336		0.12	0.007	<0.2	1.22	10	<10	70	<0.5	<2	0.15	<0.5	5	24	17	3.16
CC144337		0.20	0.009	<0.2	1.80	8	<10	110	0.5	<2	0.34	<0.5	8	35	16	3.63
CC144338		0.30	0.009	<0.2	1.50	4	<10	110	0.5	<2	0.32	<0.5	8	31	15	2.47
CC144339		0.15	0.004	<0.2	1.74	10	<10	150	<0.5	<2	0.17	<0.5	7	30	14	3.97
CC144340		0.13	0.003	<0.2	2.16	9	<10	100	0.5	<2	0.27	<0.5	6	33	15	3.93
CC144341		0.27	0.011	<0.2	1.97	5	<10	140	0.6	<2	0.32	<0.5	9	36	21	2.90
CC144342		0.30	0.005	<0.2	2.05	8	<10	160	0.7	<2	0.36	<0.5	10	40	22	3.05
CC144343		0.30	0.006	<0.2	2.29	8	<10	170	0.7	<2	0.37	<0.5	9	39	23	3.14
CC144344		0.12	0.005	<0.2	1.02	7	<10	60	<0.5	<2	0.17	<0.5	4	21	17	2.69
CC144345		0.16	0.001	<0.2	1.01	8	<10	80	<0.5	<2	0.15	<0.5	4	19	14	2.65
CC144346		0.13	0.004	<0.2	0.69	3	<10	40	<0.5	<2	0.07	<0.5	3	13	9	1.42
CC144347		0.15	0.011	0.2	3.22	13	<10	350	1.0	<2	0.81	<0.5	11	49	31	3.74
CC144348		0.19	0.004	<0.2	2.17	9	<10	120	<0.5	<2	0.23	<0.5	8	34	19	3.35
CC144349		0.14	0.003	<0.2	1.29	6	<10	100	<0.5	<2	0.15	<0.5	4	20	14	2.26
CC144350		0.18	0.005	0.2	2.07	6	<10	170	0.5	<2	0.54	<0.5	7	30	19	2.67
CC144351		0.11	0.011	0.2	3.13	11	<10	300	0.9	<2	0.51	<0.5	12	44	28	3.79
CC144352		0.16	0.010	<0.2	2.50	11	<10	260	0.7	<2	0.59	<0.5	9	40	23	3.11
CC144353		0.23	0.007	0.2	2.09	7	<10	170	0.6	<2	0.28	<0.5	8	34	23	2.90
CC144354		0.32	0.007	0.2	2.40	8	<10	210	0.5	<2	0.36	<0.5	8	37	19	3.30
CC144355		0.18	0.006	<0.2	2.62	10	<10	240	0.7	<2	0.46	<0.5	10	42	23	3.27
CC144356		0.27	0.025	<0.2	2.09	9	<10	180	0.6	<2	0.35	<0.5	10	39	19	3.04
CC144357		0.24	0.038	<0.2	1.43	6	<10	130	0.5	<2	0.39	<0.5	8	31	16	2.41
CC144358		0.23	0.015	<0.2	2.07	11	<10	120	0.5	<2	0.30	<0.5	13	37	17	3.34
CC144359		0.20	0.012	<0.2	1.60	10	<10	60	0.5	<2	0.19	<0.5	8	25	12	2.73
CC144360		0.20	0.017	<0.2	1.64	4	<10	160	0.6	<2	0.33	<0.5	7	30	15	1.93
CC144361		0.10	0.007	<0.2	1.47	8	<10	60	<0.5	<2	0.13	<0.5	5	24	11	2.71
CC144362		0.18	0.013	<0.2	2.68	14	<10	210	1.8	<2	0.20	<0.5	20	42	35	4.18
CC144363		0.19	0.003	<0.2	1.64	5	<10	90	<0.5	<2	0.14	<0.5	5	25	12	2.79
CC144364		0.19	0.012	<0.2	1.96	8	<10	110	0.7	<2	0.20	<0.5	9	31	17	2.73
CC144301		0.24	0.003	<0.2	2.53	6	<10	120	0.9	<2	0.34	<0.5	11	54	20	3.44
CC144302		0.24	0.004	<0.2	1.54	14	<10	80	0.8	<2	0.20	<0.5	7	35	13	2.94
CC144303		0.17	0.005	<0.2	1.78	5	<10	100	0.5	<2	0.21	<0.5	5	32	17	2.38
CC144304		0.19	0.005	<0.2	2.09	6	<10	110	0.6	<2	0.25	<0.5	11	45	19	3.19
CC144305		0.22	0.002	<0.2	1.54	4	<10	100	1.0	<2	0.34	<0.5	9	40	15	2.70
CC144306		0.27	0.009	<0.2	1.98	9	<10	140	0.8	<2	0.42	<0.5	9	42	17	2.92
CC144307		0.17	0.018	<0.2	2.04	11	<10	160	1.0	<2	0.34	<0.5	8	35	19	3.25
CC144308		0.14	0.015	0.2	2.48	16	<10	240	1.0	<2	0.33	<0.5	11	46	22	3.33
CC144309		0.19	0.009	0.3	2.69	6	<10	230	0.8	<2	0.31	<0.5	9	45	30	3.33
CC144310		0.18	0.003	<0.2	2.12	2	<10	160	<0.5	<2	0.27	<0.5	10	37	19	2.81
CC144311		0.22	0.017	<0.2	1.75	4	<10	150	0.5	<2	0.32	<0.5	10	35	19	2.79

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 3- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 1

CERTIFICATE OF ANALYSIS WH11135394

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144336		10	<1	0.05	10	0.27	262	2	0.01	15	490	14	0.01	<2	2	13
CC144337		10	<1	0.07	10	0.52	468	1	0.01	21	750	12	<0.01	<2	4	25
CC144338		<10	<1	0.05	20	0.50	379	<1	0.01	16	410	9	<0.01	<2	4	23
CC144339		10	<1	0.07	10	0.39	519	2	0.01	14	590	12	0.01	<2	3	17
CC144340		10	<1	0.05	10	0.41	252	2	0.01	16	400	15	<0.01	<2	3	27
CC144341		10	<1	0.05	30	0.55	394	<1	0.01	23	430	12	<0.01	<2	5	23
CC144342		10	<1	0.05	30	0.60	486	1	0.01	24	510	14	<0.01	<2	5	25
CC144343		10	<1	0.06	40	0.59	478	1	0.01	24	470	12	<0.01	<2	5	27
CC144344		10	<1	0.08	10	0.18	162	2	0.01	10	440	13	<0.01	<2	2	20
CC144345		10	<1	0.05	10	0.16	167	1	<0.01	9	410	14	<0.01	<2	2	14
CC144346		10	<1	0.04	10	0.13	82	1	0.01	7	260	9	<0.01	<2	1	8
CC144347		10	<1	0.08	70	0.63	623	1	0.02	31	870	18	0.04	<2	7	55
CC144348		10	<1	0.06	10	0.52	254	1	0.01	20	360	11	<0.01	<2	4	18
CC144349		10	<1	0.04	10	0.24	257	1	0.01	10	410	9	0.01	<2	2	14
CC144350		10	<1	0.06	30	0.43	528	1	0.02	19	470	13	0.01	<2	4	41
CC144351		10	<1	0.08	50	0.65	485	1	0.02	28	700	13	0.03	<2	7	40
CC144352		10	<1	0.07	40	0.50	452	1	0.01	24	710	13	0.02	<2	5	43
CC144353		10	<1	0.05	20	0.47	448	1	0.01	20	400	9	<0.01	<2	4	24
CC144354		10	<1	0.07	20	0.52	374	1	0.01	23	450	11	<0.01	<2	4	29
CC144355		10	<1	0.07	20	0.57	461	1	0.01	26	580	11	0.02	<2	5	38
CC144356		10	<1	0.06	20	0.52	455	1	0.01	23	730	9	0.01	<2	4	27
CC144357		<10	<1	0.05	20	0.47	332	<1	0.01	16	680	7	<0.01	<2	4	27
CC144358		10	<1	0.06	20	0.61	642	1	0.01	23	670	12	<0.01	<2	4	23
CC144359		10	<1	0.04	20	0.38	338	1	0.01	14	400	12	<0.01	<2	2	15
CC144360		<10	<1	0.05	20	0.43	176	<1	0.01	16	600	9	0.02	<2	4	25
CC144361		10	<1	0.05	10	0.29	196	1	0.01	11	290	9	<0.01	<2	2	13
CC144362		10	<1	0.06	30	0.41	2020	2	0.01	19	610	16	<0.01	<2	7	20
CC144363		10	<1	0.03	10	0.30	209	1	0.01	12	290	9	<0.01	<2	3	14
CC144364		10	<1	0.04	20	0.41	373	1	<0.01	20	360	13	<0.01	<2	3	17
CC144301		10	<1	0.20	20	1.08	392	1	0.01	25	610	9	<0.01	<2	6	25
CC144302		10	<1	0.08	20	0.43	326	1	0.01	19	530	15	<0.01	<2	3	25
CC144303		10	<1	0.06	10	0.46	151	1	0.01	16	410	12	0.01	<2	2	22
CC144304		10	<1	0.08	20	0.68	555	1	0.01	21	520	11	<0.01	<2	4	20
CC144305		<10	<1	0.24	30	0.77	495	<1	0.01	20	580	13	<0.01	2	4	24
CC144306		10	<1	0.11	20	0.72	390	1	0.01	22	680	11	<0.01	<2	4	31
CC144307		10	<1	0.10	30	0.63	389	1	0.01	15	750	13	0.01	<2	6	29
CC144308		10	1	0.06	20	0.48	530	2	0.01	27	760	17	0.04	<2	5	31
CC144309		10	<1	0.06	20	0.53	396	1	0.01	25	630	16	0.03	4	4	30
CC144310		10	1	0.05	10	0.50	409	1	0.01	21	560	9	0.02	<2	3	24
CC144311		<10	<1	0.06	20	0.57	479	1	0.01	21	510	8	0.01	<2	4	24

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144336		<20	0.12	<10	<10	95	<10	43
CC144337		<20	0.13	<10	<10	88	<10	66
CC144338		<20	0.11	<10	<10	58	<10	45
CC144339		<20	0.12	<10	<10	110	<10	58
CC144340		<20	0.12	<10	<10	91	<10	56
CC144341		<20	0.12	<10	<10	70	<10	53
CC144342		<20	0.12	<10	<10	72	<10	60
CC144343		<20	0.11	<10	<10	71	<10	59
CC144344		<20	0.13	<10	<10	87	<10	38
CC144345		<20	0.14	<10	<10	96	<10	37
CC144346		<20	0.07	<10	<10	49	<10	22
CC144347		<20	0.10	<10	10	83	<10	70
CC144348		<20	0.11	<10	<10	80	<10	50
CC144349		<20	0.09	<10	<10	70	<10	34
CC144350		<20	0.09	<10	<10	64	<10	53
CC144351		<20	0.10	<10	<10	87	<10	70
CC144352		<20	0.09	<10	<10	70	<10	56
CC144353		<20	0.09	<10	<10	66	<10	48
CC144354		<20	0.11	<10	<10	80	<10	52
CC144355		<20	0.09	<10	<10	76	<10	55
CC144356		<20	0.10	<10	<10	71	<10	60
CC144357		<20	0.11	<10	<10	62	<10	50
CC144358		<20	0.11	<10	<10	76	<10	66
CC144359		<20	0.10	<10	<10	63	<10	43
CC144360		<20	0.08	<10	<10	48	<10	50
CC144361		<20	0.13	<10	<10	85	<10	38
CC144362		<20	0.10	<10	10	99	<10	60
CC144363		<20	0.10	<10	<10	68	<10	33
CC144364		<20	0.11	<10	<10	64	<10	46
CC144301		<20	0.16	<10	<10	80	<10	55
CC144302		<20	0.07	<10	<10	63	<10	42
CC144303		<20	0.09	<10	<10	64	<10	40
CC144304		<20	0.13	<10	<10	76	<10	53
CC144305		<20	0.12	<10	<10	58	<10	52
CC144306		<20	0.12	<10	<10	63	<10	60
CC144307		<20	0.07	<10	<10	65	<10	63
CC144308		<20	0.07	<10	<10	74	<10	67
CC144309		<20	0.09	<10	<10	72	<10	59
CC144310		<20	0.09	<10	<10	63	<10	53
CC144311		<20	0.11	<10	<10	65	<10	52

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CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC144312		0.15	0.003	<0.2	1.94	8	<10	120	0.5	<2	0.13	<0.5	9	31	18	3.47
CC144313		0.19	0.004	<0.2	2.02	5	<10	120	0.5	<2	0.27	<0.5	10	39	18	3.24
CC144314		0.19	0.005	0.2	2.81	8	<10	190	0.8	<2	0.18	<0.5	17	46	24	3.79
CC144315		0.30	0.004	<0.2	2.01	6	<10	150	0.5	<2	0.31	<0.5	11	39	22	3.15
CC144316		0.15	0.005	<0.2	1.79	4	<10	160	0.5	<2	0.37	<0.5	10	36	19	2.74
CC144317		0.27	0.002	<0.2	1.68	3	<10	140	<0.5	<2	0.37	<0.5	8	32	17	2.60
CC144318		0.20	0.005	<0.2	1.81	2	<10	150	<0.5	<2	0.39	<0.5	7	33	20	2.57
CC144319		0.23	0.003	<0.2	2.03	4	<10	160	0.5	<2	0.34	<0.5	8	37	22	2.86
CC144320		0.22	0.002	<0.2	1.90	3	<10	130	0.5	<2	0.33	<0.5	7	33	19	2.73
CC144321		0.17	0.002	0.2	2.83	8	<10	120	0.7	<2	0.17	<0.5	10	51	20	3.96
CC144322		0.14	0.007	<0.2	1.94	5	<10	120	0.7	<2	0.32	<0.5	11	35	22	2.90
CC144323		0.26	0.017	<0.2	2.35	7	<10	200	0.8	<2	0.34	<0.5	11	41	25	3.17
CC144324		0.19	0.016	<0.2	1.27	6	<10	100	0.9	<2	0.25	<0.5	8	29	13	2.27
CC144325		0.20	0.007	0.2	1.91	7	<10	120	0.6	<2	0.14	<0.5	5	31	23	2.77
CC144326		0.22	0.016	<0.2	2.01	7	<10	160	1.0	<2	0.27	<0.5	10	33	17	2.84
CC144327		0.17	0.005	<0.2	1.40	16	<10	70	<0.5	<2	0.11	<0.5	5	30	13	3.70
CC144328		0.18	0.043	<0.2	1.69	13	<10	180	0.7	<2	0.36	<0.5	8	30	13	2.44
CC144329		0.12	0.025	<0.2	1.82	10	<10	160	0.6	<2	0.25	<0.5	7	32	15	2.47
CC144330		0.10	0.039	0.2	2.48	9	<10	270	0.8	<2	0.33	<0.5	17	42	17	3.05
CC144271		0.21	0.008	<0.2	2.24	7	<10	190	0.6	<2	0.27	<0.5	10	41	21	3.23
CC144272		0.39	0.031	<0.2	2.29	9	<10	180	0.5	<2	0.32	<0.5	11	45	19	3.35
CC144273		0.21	0.039	0.2	2.17	5	<10	210	0.6	<2	0.31	<0.5	14	36	15	3.13
CC144274		0.24	0.008	0.2	2.24	6	<10	170	0.6	<2	0.22	<0.5	10	42	15	3.08
CC144275		0.15	0.021	<0.2	1.57	8	<10	90	<0.5	<2	0.19	<0.5	8	30	14	2.69
CC144276		0.21	0.019	<0.2	1.84	11	<10	150	1.0	<2	0.31	<0.5	10	41	17	2.98
CC144277		0.16	0.006	<0.2	2.65	8	<10	170	0.9	<2	0.31	<0.5	9	41	22	3.26
CC144278		0.21	0.006	<0.2	1.86	7	<10	120	0.9	<2	0.29	<0.5	8	31	14	2.61
CC144279		0.15	<0.001	<0.2	2.78	7	<10	90	0.5	<2	0.15	<0.5	11	44	17	3.41
CC144280		0.33	0.013	<0.2	1.72	7	<10	140	0.8	<2	0.36	<0.5	7	37	21	2.74
CC144281		0.39	0.003	<0.2	2.10	6	<10	130	0.7	<2	0.28	<0.5	11	45	19	3.06
CC144282		0.29	0.001	<0.2	1.93	3	<10	120	0.6	<2	0.39	<0.5	11	47	25	2.93
CC144283		0.22	0.004	<0.2	2.19	10	<10	110	0.5	<2	0.16	<0.5	11	39	15	3.72
CC144284		0.24	0.004	<0.2	2.06	8	<10	100	<0.5	<2	0.18	<0.5	6	29	20	3.00
CC144285		0.22	0.005	<0.2	2.50	10	<10	130	0.6	<2	0.21	<0.5	10	39	18	3.70
CC144286		0.22	0.016	<0.2	1.18	7	<10	60	<0.5	<2	0.21	<0.5	6	24	14	2.07
CC144287		0.23	0.005	<0.2	1.96	8	<10	110	0.8	<2	0.20	<0.5	9	33	18	2.67
CC144288		0.13	0.007	<0.2	1.41	6	<10	40	<0.5	<2	0.11	<0.5	4	22	11	2.27
CC144289		0.27	0.009	<0.2	1.84	8	<10	140	0.5	<2	0.26	<0.5	9	35	16	2.83
CC144290		0.16	0.006	0.2	2.58	10	<10	200	0.7	<2	0.32	<0.5	12	41	25	3.57
CC144291		0.20	0.001	<0.2	2.42	8	<10	150	0.5	<2	0.32	<0.5	7	36	19	3.43

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 3- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 1

CERTIFICATE OF ANALYSIS WH11135394

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144312		10	<1	0.04	10	0.37	510	2	0.01	14	570	10	0.02	<2	4	14
CC144313		10	1	0.06	10	0.60	498	1	0.01	21	440	9	0.02	<2	4	21
CC144314		10	1	0.07	20	0.60	903	1	0.01	25	580	11	0.02	<2	6	17
CC144315		10	<1	0.06	20	0.60	628	2	0.01	23	540	8	0.02	<2	4	25
CC144316		10	<1	0.06	20	0.50	563	1	0.01	20	640	9	0.02	<2	3	27
CC144317		10	1	0.05	10	0.53	477	2	0.01	18	550	8	0.02	<2	3	26
CC144318		10	<1	0.05	20	0.58	276	1	0.01	19	660	8	0.01	<2	4	27
CC144319		10	<1	0.05	20	0.58	401	1	0.01	22	560	10	0.01	<2	5	25
CC144320		10	<1	0.06	20	0.58	247	1	0.01	22	590	9	0.02	<2	3	24
CC144321		10	<1	0.07	10	0.59	332	2	0.01	24	400	13	0.02	<2	4	18
CC144322		10	<1	0.06	20	0.49	734	2	0.01	22	600	14	0.02	<2	4	24
CC144323		10	<1	0.06	30	0.61	480	1	0.01	25	550	10	0.01	<2	6	27
CC144324		<10	<1	0.07	20	0.44	372	1	0.01	15	460	11	0.01	2	3	19
CC144325		10	<1	0.05	20	0.26	154	2	0.01	13	620	14	0.02	<2	3	17
CC144326		<10	<1	0.05	20	0.54	528	1	0.01	23	530	12	0.02	<2	4	22
CC144327		10	<1	0.04	10	0.33	320	2	<0.01	14	430	12	0.03	<2	2	14
CC144328		<10	1	0.06	20	0.45	265	1	0.01	18	820	15	0.04	<2	4	29
CC144329		10	<1	0.05	20	0.45	212	1	0.01	17	650	14	0.05	<2	3	23
CC144330		10	<1	0.06	30	0.55	1235	1	0.01	23	720	15	0.05	2	5	32
CC144271		10	<1	0.07	20	0.54	544	1	0.01	23	480	11	0.02	<2	4	25
CC144272		10	<1	0.06	20	0.62	685	1	0.01	24	570	11	0.03	6	4	28
CC144273		10	<1	0.05	20	0.50	913	1	0.01	20	730	10	0.04	<2	5	27
CC144274		10	1	0.06	10	0.55	413	1	0.01	22	530	12	0.03	<2	4	21
CC144275		10	<1	0.05	10	0.41	315	1	0.01	17	510	10	0.04	<2	3	18
CC144276		10	<1	0.08	40	0.53	675	2	0.01	22	580	27	0.03	2	4	30
CC144277		10	<1	0.06	20	0.61	290	1	0.01	23	760	13	0.03	<2	5	24
CC144278		<10	<1	0.10	30	0.57	420	1	0.01	18	620	11	0.03	<2	4	22
CC144279		10	<1	0.04	10	0.44	482	1	0.01	20	410	11	0.03	<2	4	15
CC144280		<10	<1	0.05	30	0.57	296	1	0.01	20	510	12	0.02	<2	5	29
CC144281		10	<1	0.07	20	0.61	518	1	0.01	24	520	11	0.01	<2	5	21
CC144282		10	1	0.15	20	0.90	456	1	0.01	25	600	8	0.01	<2	4	26
CC144283		10	<1	0.07	10	0.44	555	2	0.01	20	470	13	0.02	<2	3	16
CC144284		10	<1	0.03	10	0.28	184	3	0.01	20	240	18	<0.01	<2	3	20
CC144285		10	<1	0.05	10	0.53	355	2	0.01	22	360	15	<0.01	<2	4	22
CC144286		<10	<1	0.05	20	0.30	328	1	0.01	14	540	12	<0.01	<2	2	15
CC144287		10	<1	0.05	20	0.44	487	1	0.01	19	560	11	<0.01	<2	3	17
CC144288		10	<1	0.03	10	0.25	135	1	0.01	9	310	8	0.01	<2	2	11
CC144289		<10	<1	0.05	20	0.45	508	1	0.01	19	530	11	<0.01	<2	3	23
CC144290		10	<1	0.07	20	0.56	630	1	0.01	23	510	12	0.01	<2	5	30
CC144291		10	<1	0.08	10	0.52	273	1	0.01	19	400	12	<0.01	<2	4	26

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CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144312		<20	0.11	<10	<10	83	<10	59
CC144313		<20	0.12	<10	<10	74	<10	60
CC144314		<20	0.11	<10	<10	84	<10	65
CC144315		<20	0.11	<10	<10	73	<10	58
CC144316		<20	0.09	<10	<10	65	<10	53
CC144317		<20	0.10	<10	<10	64	<10	46
CC144318		<20	0.11	<10	<10	61	<10	48
CC144319		<20	0.12	<10	<10	68	<10	51
CC144320		<20	0.11	<10	<10	64	<10	52
CC144321		<20	0.13	<10	<10	95	<10	57
CC144322		<20	0.11	<10	<10	66	<10	52
CC144323		<20	0.12	<10	<10	70	<10	53
CC144324		<20	0.10	<10	<10	53	<10	43
CC144325		<20	0.08	<10	<10	67	<10	38
CC144326		<20	0.10	<10	<10	61	<10	55
CC144327		<20	0.13	<10	<10	103	<10	44
CC144328		<20	0.09	<10	<10	52	<10	53
CC144329		<20	0.08	<10	<10	54	<10	53
CC144330		<20	0.08	<10	<10	66	<10	65
CC144271		<20	0.10	<10	<10	73	<10	59
CC144272		<20	0.10	<10	<10	74	<10	67
CC144273		<20	0.09	<10	<10	64	<10	57
CC144274		<20	0.09	<10	<10	68	<10	62
CC144275		<20	0.10	<10	<10	67	<10	48
CC144276		<20	0.09	<10	<10	61	<10	65
CC144277		<20	0.10	<10	<10	67	<10	62
CC144278		<20	0.10	<10	<10	55	<10	55
CC144279		<20	0.11	<10	<10	74	<10	54
CC144280		<20	0.12	<10	<10	63	<10	47
CC144281		<20	0.12	<10	<10	69	<10	54
CC144282		<20	0.14	<10	<10	68	<10	50
CC144283		<20	0.12	<10	<10	88	<10	57
CC144284		<20	0.10	<10	<10	94	<10	45
CC144285		<20	0.12	<10	<10	83	<10	50
CC144286		<20	0.09	<10	<10	56	<10	43
CC144287		<20	0.08	<10	<10	57	<10	55
CC144288		<20	0.08	<10	<10	60	<10	30
CC144289		<20	0.09	<10	<10	63	<10	53
CC144290		<20	0.11	<10	<10	81	<10	58
CC144291		<20	0.11	<10	<10	84	<10	56

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CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144292		0.19	0.002	<0.2	1.60	3	<10	120	<0.5	<2	0.29	<0.5	8	30	18	2.62
CC144293		0.20	0.004	<0.2	1.72	7	<10	120	<0.5	<2	0.19	<0.5	7	31	20	3.04
CC144294		0.29	0.003	0.2	2.59	9	<10	230	0.6	<2	0.36	<0.5	10	39	31	3.58
CC144295		0.21	0.002	<0.2	2.17	10	<10	150	<0.5	<2	0.36	<0.5	7	32	15	3.26
CC144296		0.24	0.002	<0.2	2.72	8	<10	160	0.6	<2	0.17	<0.5	11	39	19	3.45
CC144297		0.24	0.002	<0.2	2.39	8	<10	170	0.6	<2	0.30	<0.5	10	39	21	3.38
CC144298		0.31	<0.001	<0.2	1.72	4	<10	150	0.5	<2	0.29	<0.5	7	30	17	2.38
CC144299		0.21	0.001	<0.2	1.89	7	<10	120	0.6	<2	0.13	<0.5	12	27	23	3.11
CC144300		0.32	0.003	<0.2	1.67	5	<10	120	0.6	<2	0.35	<0.5	7	40	19	2.62
CC144400		0.17	0.010	<0.2	1.58	3	<10	110	<0.5	<2	0.26	<0.5	8	42	14	2.16
CC144401		0.22	0.002	<0.2	1.97	5	<10	110	0.7	<2	0.32	<0.5	8	37	21	2.83
CC144402		0.21	0.003	<0.2	2.01	5	<10	140	0.9	<2	0.45	<0.5	10	39	21	3.18
CC144403		Destroyed														
CC144404		0.30	0.005	<0.2	2.15	6	<10	160	0.7	<2	0.36	<0.5	9	41	25	2.89
CC144405		0.21	0.005	<0.2	2.01	7	<10	160	0.6	<2	0.42	<0.5	7	39	24	2.92
CC144406		0.15	<0.001	0.3	2.82	9	<10	110	0.6	<2	0.15	<0.5	8	40	19	4.22
CC144407		0.15	<0.001	<0.2	0.93	2	<10	60	<0.5	<2	0.09	<0.5	4	13	10	1.30
CC144408		0.14	0.002	<0.2	1.61	7	<10	130	<0.5	<2	0.20	<0.5	6	27	17	3.00
CC144409		0.22	0.007	<0.2	2.49	9	<10	150	0.6	<2	0.26	<0.5	12	42	21	3.61
CC144410		0.16	0.005	<0.2	2.07	8	<10	110	0.5	<2	0.24	<0.5	10	36	20	3.39
CC144411		0.16	0.002	<0.2	0.61	3	<10	60	<0.5	<2	0.11	<0.5	3	15	10	1.71
CC144412		0.17	0.005	<0.2	2.54	5	<10	180	0.8	<2	0.26	<0.5	16	38	20	3.51
CC144413		0.22	0.006	<0.2	2.42	6	<10	210	0.6	<2	0.44	<0.5	11	41	22	3.31
CC144414		0.16	0.006	<0.2	2.42	7	<10	180	0.8	<2	0.37	<0.5	13	42	27	3.31
CC144415		0.20	0.005	<0.2	2.44	7	<10	190	0.7	<2	0.31	<0.5	9	44	27	3.30
CC144416		0.24	0.002	<0.2	2.93	11	<10	230	0.7	<2	0.35	<0.5	11	50	26	4.25
CC144417		0.18	0.013	<0.2	2.01	7	<10	150	0.5	<2	0.25	<0.5	13	35	19	2.65
CC144418		0.24	0.009	<0.2	2.10	5	<10	170	<0.5	<2	0.32	<0.5	12	35	14	2.75
CC144419		0.25	0.008	<0.2	2.25	7	<10	210	0.8	<2	0.31	<0.5	11	43	18	3.13
CC144420		0.17	0.008	0.2	2.46	12	<10	200	0.8	<2	0.35	<0.5	11	52	25	3.45
CC144421		0.12	0.007	<0.2	1.69	5	<10	120	0.8	<2	0.35	<0.5	8	89	17	2.31
CC144422		0.19	0.002	<0.2	1.83	9	<10	90	<0.5	<2	0.16	<0.5	6	28	10	3.05
CC144423		0.13	0.001	<0.2	1.21	7	<10	70	<0.5	<2	0.13	<0.5	5	19	11	2.26
CC144424		0.13	0.003	<0.2	0.87	6	<10	100	<0.5	<2	0.13	<0.5	4	14	10	1.61
CC144425		0.12	<0.001	<0.2	0.34	2	<10	50	<0.5	<2	0.09	<0.5	5	7	7	0.75
CC144426		0.24	0.003	0.2	2.26	9	<10	150	0.8	<2	0.30	<0.5	10	66	21	3.01
CC144427		0.30	0.005	<0.2	1.70	5	<10	130	0.6	<2	0.35	<0.5	8	35	21	2.47
CC144428		0.32	0.003	<0.2	1.95	8	<10	140	0.6	<2	0.35	<0.5	12	57	20	2.85
CC144429		0.17	0.004	<0.2	1.53	7	<10	100	<0.5	<2	0.09	<0.5	5	23	12	2.92
CC144430		0.14	0.001	<0.2	0.64	4	<10	50	<0.5	<2	0.11	<0.5	4	9	8	1.32

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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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144292		<10	<1	0.06	20	0.46	402	1	0.01	18	460	8	<0.01	<2	3	23
CC144293		10	<1	0.06	10	0.38	277	2	0.01	17	370	10	<0.01	<2	3	19
CC144294		10	<1	0.08	20	0.59	560	1	0.01	31	530	13	<0.01	<2	4	31
CC144295		10	<1	0.11	10	0.51	259	1	0.01	19	460	10	<0.01	<2	3	27
CC144296		10	<1	0.06	10	0.58	414	1	0.01	25	390	10	<0.01	<2	4	16
CC144297		10	<1	0.06	20	0.62	447	1	0.01	23	390	10	<0.01	<2	4	25
CC144298		10	<1	0.05	20	0.45	455	1	0.01	17	440	10	<0.01	<2	3	24
CC144299		10	<1	0.06	30	0.31	1070	2	0.01	16	390	15	<0.01	<2	3	16
CC144300		<10	<1	0.05	30	0.56	345	1	0.01	22	480	12	<0.01	<2	5	23
CC144400		<10	<1	0.06	10	0.49	172	<1	0.01	16	510	5	<0.01	<2	3	18
CC144401		10	<1	0.06	30	0.57	339	1	0.01	21	490	11	<0.01	<2	5	24
CC144402		10	<1	0.10	30	0.77	433	1	0.01	20	440	13	<0.01	<2	6	34
CC144403																
CC144404		10	<1	0.05	30	0.57	346	<1	0.01	21	420	10	<0.01	<2	6	27
CC144405		10	<1	0.06	30	0.60	297	1	0.01	22	570	11	<0.01	<2	6	31
CC144406		10	<1	0.04	10	0.37	363	1	0.01	16	390	12	0.01	<2	4	14
CC144407		<10	<1	0.04	10	0.15	274	<1	0.02	9	260	4	<0.01	<2	1	12
CC144408		10	<1	0.06	10	0.30	473	2	<0.01	11	430	12	<0.01	<2	3	18
CC144409		10	<1	0.07	20	0.61	743	1	0.01	23	420	12	<0.01	<2	5	23
CC144410		10	<1	0.06	10	0.60	514	1	0.01	21	460	9	<0.01	<2	4	19
CC144411		10	<1	0.05	10	0.13	120	1	0.01	7	590	8	<0.01	<2	1	14
CC144412		10	<1	0.07	30	0.54	952	1	0.01	21	560	14	<0.01	<2	5	23
CC144413		10	<1	0.07	30	0.60	608	1	0.02	23	610	11	0.02	<2	5	35
CC144414		10	<1	0.07	20	0.58	593	1	0.01	25	590	11	<0.01	<2	5	29
CC144415		10	<1	0.07	20	0.58	442	1	0.01	23	570	9	0.01	<2	5	28
CC144416		10	<1	0.09	20	0.68	678	1	0.01	28	660	14	<0.01	<2	5	32
CC144417		10	<1	0.06	10	0.43	860	1	0.01	18	550	9	0.01	3	3	24
CC144418		10	<1	0.05	10	0.51	723	1	0.01	18	580	8	0.01	<2	3	27
CC144419		10	<1	0.07	20	0.59	544	1	0.01	23	710	11	0.01	<2	5	25
CC144420		10	<1	0.08	20	0.68	464	1	0.03	27	640	12	0.02	<2	5	31
CC144421		<10	<1	0.09	20	0.77	230	<1	0.04	33	630	17	0.02	<2	4	25
CC144422		10	<1	0.05	10	0.39	223	1	0.03	12	340	11	0.02	<2	3	16
CC144423		10	<1	0.04	10	0.26	111	1	0.03	9	220	8	0.01	<2	2	13
CC144424		<10	<1	0.02	10	0.15	96	1	0.04	7	220	6	0.02	<2	1	14
CC144425		<10	<1	0.02	<10	0.04	747	1	0.04	2	230	4	0.02	<2	<1	10
CC144426		10	<1	0.09	30	0.74	357	1	0.03	32	510	10	0.01	<2	5	24
CC144427		<10	<1	0.04	30	0.53	283	1	0.03	19	550	8	0.01	<2	5	24
CC144428		10	<1	0.07	20	0.73	395	1	0.04	26	560	9	0.01	<2	5	26
CC144429		10	<1	0.02	10	0.16	154	2	0.03	8	210	12	0.01	<2	2	12
CC144430		<10	<1	0.02	<10	0.11	112	1	0.04	4	250	4	0.02	<2	1	10

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VANCOUVER BC V6B 1L8

Finalized Date: 3- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 1

CERTIFICATE OF ANALYSIS WH11135394

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144292		<20	0.09	<10	<10	61	<10	49
CC144293		<20	0.10	<10	<10	82	<10	41
CC144294		<20	0.10	<10	<10	85	<10	64
CC144295		<20	0.11	<10	<10	85	<10	53
CC144296		<20	0.10	<10	<10	79	<10	56
CC144297		<20	0.11	<10	<10	79	<10	53
CC144298		<20	0.09	<10	<10	53	<10	43
CC144299		<20	0.09	<10	<10	73	<10	48
CC144300		<20	0.12	<10	<10	62	<10	52
CC144400		<20	0.10	<10	<10	52	<10	43
CC144401		<20	0.11	<10	<10	66	<10	50
CC144402		<20	0.15	<10	<10	75	<10	54
CC144403								
CC144404		<20	0.12	<10	<10	69	<10	50
CC144405		<20	0.12	<10	<10	66	<10	53
CC144406		<20	0.09	<10	<10	94	<10	66
CC144407		<20	0.06	<10	<10	31	<10	23
CC144408		<20	0.10	<10	<10	94	<10	62
CC144409		<20	0.12	<10	<10	81	<10	64
CC144410		<20	0.12	<10	<10	79	<10	59
CC144411		<20	0.07	<10	<10	55	<10	32
CC144412		<20	0.11	<10	<10	77	<10	58
CC144413		<20	0.11	<10	<10	77	<10	66
CC144414		<20	0.12	<10	<10	77	<10	57
CC144415		<20	0.10	<10	<10	73	<10	57
CC144416		<20	0.12	<10	<10	97	<10	83
CC144417		<20	0.08	<10	<10	59	<10	51
CC144418		<20	0.09	<10	<10	61	<10	55
CC144419		<20	0.10	<10	<10	67	<10	64
CC144420		<20	0.11	<10	<10	77	<10	70
CC144421		<20	0.11	<10	<10	51	<10	49
CC144422		<20	0.12	<10	<10	72	<10	40
CC144423		<20	0.09	<10	<10	62	<10	32
CC144424		<20	0.06	<10	<10	45	<10	28
CC144425		<20	0.03	<10	<10	25	<10	13
CC144426		<20	0.12	<10	<10	65	<10	52
CC144427		<20	0.11	<10	<10	58	<10	46
CC144428		<20	0.12	<10	<10	64	<10	50
CC144429		<20	0.13	<10	<10	104	<10	34
CC144430		<20	0.05	<10	<10	30	<10	25

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

Finalized Date: 27- JUL- 2011
Account: F

CERTIFICATE WH11138852

Project: Arcus- Dan Man- Prospects 2

P.O. No.:

This report is for 8 Rock samples submitted to our lab in Whitehorse, YT, Canada on 21- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
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
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
1016- 510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 27- JUL- 2011
Account: F

Project: Arcus- Dan Man- Prospects 2

CERTIFICATE OF ANALYSIS WH11138852

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I079858		0.07	<0.005	<0.2	1.75	97	<10	20	1.5	<2	0.04	<0.5	3	3	3	1.01
I079859		0.05	<0.005	<0.2	0.89	8	<10	70	0.8	<2	0.05	<0.5	3	4	3	1.27
I079860		0.02	<0.005	<0.2	3.60	20	<10	50	1.5	<2	0.06	<0.5	2	4	7	1.17
I079861		0.31	0.021	<0.2	0.45	39	<10	<10	1.1	<2	0.02	<0.5	2	4	1	0.90
I079862		0.06	<0.005	<0.2	2.71	40	<10	10	1.0	<2	0.03	<0.5	2	2	4	1.43
I079863		0.13	<0.005	<0.2	0.61	10	<10	<10	0.8	<2	0.02	<0.5	2	2	<1	1.09
I079864		0.21	<0.005	0.2	0.77	7	<10	<10	<0.5	<2	0.01	<0.5	1	2	1	0.43
I079865		0.52	0.018	<0.2	0.34	47	<10	30	0.8	<2	0.02	<0.5	2	2	1	1.44

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Finalized Date: 27- JUL- 2011
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Project: Arcus- Dan Man- Prospects 2

CERTIFICATE OF ANALYSIS WH11138852

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I079858		<10	1	0.50	30	0.04	35	<1	0.01	2	110	6	<0.01	<2	<1	16
I079859		<10	1	0.59	30	0.05	81	<1	0.14	2	160	4	<0.01	<2	1	15
I079860		10	1	0.59	10	0.04	57	<1	0.01	1	90	6	<0.01	<2	1	17
I079861		<10	<1	0.09	<10	0.02	46	<1	0.01	2	100	4	<0.01	2	1	9
I079862		10	1	0.17	10	0.02	66	<1	0.03	1	90	6	<0.01	3	1	11
I079863		<10	<1	0.17	20	0.03	54	<1	0.07	<1	50	4	<0.01	2	1	8
I079864		<10	<1	0.18	10	0.01	28	<1	0.01	<1	40	<2	<0.01	<2	<1	7
I079865		<10	1	0.35	20	0.01	91	<1	0.01	1	90	20	<0.01	3	<1	10

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Finalized Date: 27- JUL- 2011
Account: F

Project: Arcus- Dan Man- Prospects 2

CERTIFICATE OF ANALYSIS WH11138852

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I079858		30	<0.01	<10	10	7	<10	19
I079859		30	0.01	<10	<10	6	<10	9
I079860		30	0.01	<10	<10	9	<10	7
I079861		20	<0.01	<10	10	6	<10	25
I079862		30	<0.01	<10	<10	9	<10	25
I079863		40	<0.01	<10	<10	2	<10	10
I079864		20	<0.01	<10	<10	2	<10	4
I079865		40	<0.01	<10	20	7	<10	12

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Finalized Date: 1- AUG- 2011
This copy reported on 2- AUG- 2011
Account: F

CERTIFICATE WH11138853

Project: Arcus- Dan Man- Soils 2

P.O. No.:

This report is for 200 Soil samples submitted to our lab in Whitehorse, YT, Canada on 21- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
1016- 510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 1- AUG- 2011
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Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138853

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC144431		0.19	0.006	<0.2	1.94	10	<10	110	<0.5	<2	0.13	<0.5	9	28	14	3.06
CC144432		0.13	0.039	<0.2	1.75	8	<10	110	<0.5	<2	0.18	<0.5	6	28	15	2.73
CC144433		0.08	<0.001	<0.2	0.32	<2	<10	10	<0.5	<2	0.07	<0.5	3	6	6	0.62
CC144434		0.08	0.005	<0.2	1.00	5	<10	40	<0.5	<2	0.11	<0.5	4	17	8	1.22
CC144435		0.19	0.013	<0.2	2.28	13	<10	220	0.7	3	0.27	<0.5	17	41	19	2.94
CC144436		0.08	0.041	<0.2	3.09	20	<10	340	1.1	2	0.47	<0.5	11	47	29	3.33
CC144437		0.18	0.002	<0.2	1.97	11	<10	190	0.5	2	0.34	<0.5	11	37	21	2.81
CC144438		0.17	0.002	<0.2	2.14	12	<10	190	0.5	<2	0.33	<0.5	10	37	24	2.85
CC144439		0.18	0.006	<0.2	2.58	10	<10	220	0.8	2	0.24	<0.5	11	39	34	3.41
CC144440		0.28	0.001	<0.2	1.84	10	<10	150	<0.5	<2	0.33	<0.5	10	33	18	2.71
CC144441		0.08	<0.001	<0.2	2.50	13	<10	190	0.5	2	0.13	<0.5	15	35	18	3.61
CC144442		0.11	0.002	0.2	1.55	6	<10	170	0.6	2	0.21	<0.5	10	20	22	1.87
CC144443		0.14	0.001	0.3	2.14	13	<10	100	<0.5	<2	0.12	<0.5	8	32	17	3.30
CC144444		0.14	0.002	<0.2	1.27	5	<10	130	<0.5	2	0.22	<0.5	7	20	17	1.72
CC144445		0.15	0.009	<0.2	2.31	10	<10	160	0.5	<2	0.30	<0.5	11	35	21	2.86
CC144446		0.23	0.009	<0.2	1.33	7	<10	110	<0.5	<2	0.33	<0.5	9	28	15	2.22
CC144447		0.09	<0.001	<0.2	1.94	9	<10	230	0.9	<2	0.49	0.5	8	28	29	2.20
CC144448		0.20	0.003	<0.2	1.73	11	<10	160	<0.5	<2	0.12	<0.5	9	28	15	3.01
CC144449		0.15	<0.001	<0.2	0.44	4	<10	20	<0.5	<2	0.03	<0.5	3	5	6	0.68
CC144450		0.23	0.004	<0.2	1.59	10	<10	130	0.6	2	0.40	<0.5	11	40	30	2.48
CC144451		0.11	0.012	<0.2	1.37	8	<10	110	<0.5	<2	0.26	<0.5	9	27	18	2.14
CC144452		0.15	0.002	<0.2	2.84	14	<10	150	0.6	2	0.25	<0.5	16	39	19	3.75
CC144453		0.14	0.006	<0.2	2.96	14	<10	160	0.8	2	0.20	<0.5	15	40	24	3.20
CC144454		0.08	0.001	<0.2	0.42	4	<10	30	<0.5	2	0.04	<0.5	4	7	5	0.71
CC144455		0.16	0.008	<0.2	1.99	14	<10	90	0.5	<2	0.16	<0.5	11	31	15	3.12
CC144456		0.10	0.010	<0.2	1.78	11	<10	160	0.9	2	0.27	<0.5	12	29	17	2.60
CC144457		0.24	0.013	<0.2	1.94	11	<10	140	0.5	2	0.32	<0.5	10	33	19	2.56
CC144458		0.19	0.009	<0.2	1.84	9	<10	140	<0.5	<2	0.26	<0.5	9	29	15	2.28
CC144459		0.09	0.003	<0.2	1.47	6	<10	50	<0.5	<2	0.05	<0.5	4	19	13	2.17
CC144460		0.09	0.016	0.2	2.83	14	<10	300	0.8	3	0.41	<0.5	14	39	22	3.33
CC144461		0.18	0.156	<0.2	1.54	7	<10	170	<0.5	<2	0.31	<0.5	9	27	16	2.22
CC144462		0.11	<0.001	<0.2	3.18	15	<10	290	0.8	2	0.33	<0.5	15	47	29	3.76
CC144463		0.20	0.007	<0.2	1.91	13	<10	150	0.5	2	0.26	<0.5	11	35	17	2.65
CC144464		0.10	0.001	<0.2	1.77	9	<10	100	<0.5	4	0.20	<0.5	10	28	15	2.70
CC144465		0.13	0.004	<0.2	2.37	11	<10	200	0.7	<2	0.32	<0.5	13	37	32	3.25
CC144466		0.15	0.003	<0.2	2.40	14	<10	180	<0.5	3	0.19	<0.5	14	35	19	3.71
CC144467		0.16	0.003	<0.2	1.70	12	<10	150	<0.5	2	0.19	<0.5	10	31	15	2.76
CC144468		0.12	0.005	<0.2	2.30	12	<10	180	0.6	2	0.37	<0.5	13	37	20	3.28
CC144469		0.08	0.003	<0.2	2.64	10	<10	190	0.6	2	0.34	<0.5	10	37	19	3.08
CC144470		0.14	0.003	<0.2	2.40	15	<10	150	0.6	3	0.18	<0.5	13	36	18	3.43

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North Vancouver BC V7H 0A7
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VANCOUVER BC V6B 1L8

Finalized Date: 1- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138853

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144431		10	1	0.02	10	0.23	344	1	0.01	10	220	11	<0.01	<2	3	18
CC144432		10	1	0.03	10	0.34	141	1	0.01	11	230	15	<0.01	<2	4	20
CC144433		<10	1	<0.01	<10	0.03	25	<1	0.03	3	190	<2	0.01	<2	<1	9
CC144434		<10	1	0.02	10	0.19	72	<1	0.02	8	340	8	0.02	<2	2	12
CC144435		10	<1	0.06	20	0.55	1180	1	0.02	24	590	15	0.02	<2	5	27
CC144436		10	<1	0.09	40	0.52	382	1	0.02	28	790	17	0.05	9	6	47
CC144437		10	<1	0.06	20	0.53	557	1	0.02	23	510	10	<0.01	2	4	30
CC144438		10	1	0.06	20	0.50	367	<1	0.02	23	520	8	0.01	<2	4	28
CC144439		10	<1	0.08	30	0.47	393	1	0.02	23	370	13	<0.01	<2	5	24
CC144440		10	<1	0.05	10	0.53	395	<1	0.02	21	420	8	<0.01	<2	4	27
CC144441		10	<1	0.06	10	0.43	788	1	0.02	21	810	11	<0.01	<2	3	15
CC144442		<10	<1	0.04	30	0.20	564	1	0.02	15	420	7	0.01	<2	2	25
CC144443		10	<1	0.05	10	0.40	317	1	0.02	17	420	10	<0.01	<2	3	14
CC144444		<10	<1	0.04	20	0.30	281	<1	0.03	15	460	5	0.01	<2	2	22
CC144445		10	<1	0.05	10	0.56	353	<1	0.02	24	440	8	<0.01	<2	4	23
CC144446		<10	<1	0.04	20	0.45	390	<1	0.02	19	420	10	<0.01	<2	3	24
CC144447		<10	<1	0.06	90	0.31	372	<1	0.03	24	600	11	0.03	<2	3	43
CC144448		10	<1	0.03	20	0.29	364	1	0.02	14	270	11	<0.01	2	3	14
CC144449		<10	<1	0.01	<10	0.04	43	<1	0.03	4	150	<2	<0.01	<2	1	5
CC144450		<10	1	0.07	30	0.49	305	<1	0.02	31	590	9	<0.01	<2	5	26
CC144451		<10	<1	0.05	10	0.38	324	<1	0.02	18	520	6	<0.01	<2	3	19
CC144452		10	1	0.08	10	0.50	737	1	0.02	23	480	12	<0.01	2	4	22
CC144453		10	<1	0.05	10	0.56	385	<1	0.02	28	420	9	<0.01	<2	5	19
CC144454		<10	<1	0.02	<10	0.05	32	<1	0.03	4	210	2	<0.01	<2	<1	7
CC144455		10	1	0.05	10	0.40	380	1	0.02	18	410	11	<0.01	2	3	16
CC144456		10	<1	0.06	20	0.39	511	<1	0.02	17	580	12	<0.01	<2	5	23
CC144457		10	<1	0.05	10	0.52	297	<1	0.02	21	670	9	<0.01	<2	4	23
CC144458		10	<1	0.05	10	0.46	190	<1	0.02	19	520	10	0.01	<2	3	22
CC144459		10	<1	0.02	<10	0.08	64	<1	0.02	8	680	6	<0.01	<2	1	7
CC144460		10	<1	0.07	30	0.53	709	1	0.02	24	780	14	0.04	2	5	40
CC144461		<10	<1	0.05	20	0.37	320	<1	0.02	17	410	8	<0.01	<2	4	25
CC144462		10	<1	0.08	30	0.58	715	1	0.02	30	540	13	0.01	<2	6	33
CC144463		<10	<1	0.05	10	0.52	356	<1	0.02	24	250	7	<0.01	<2	4	23
CC144464		<10	<1	0.05	10	0.41	346	<1	0.02	21	360	8	<0.01	<2	3	17
CC144465		10	<1	0.06	20	0.57	481	1	0.02	28	520	11	0.01	<2	4	29
CC144466		10	1	0.06	10	0.54	780	1	0.02	22	380	11	<0.01	<2	4	20
CC144467		10	<1	0.06	10	0.46	402	<1	0.02	20	410	10	<0.01	<2	3	19
CC144468		10	<1	0.08	20	0.54	622	1	0.02	25	560	11	<0.01	<2	4	32
CC144469		10	<1	0.06	10	0.47	407	1	0.03	23	540	13	0.01	<2	4	30
CC144470		10	<1	0.07	10	0.50	492	1	0.02	23	440	14	<0.01	<2	4	19

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 1- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138853

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144431		<20	0.11	<10	<10	82	<10	35
CC144432		<20	0.12	<10	<10	83	<10	35
CC144433		<20	0.03	<10	<10	17	<10	8
CC144434		<20	0.06	<10	<10	27	<10	24
CC144435		<20	0.09	<10	<10	65	<10	66
CC144436		<20	0.09	<10	<10	69	<10	64
CC144437		<20	0.09	<10	<10	65	<10	56
CC144438		<20	0.10	<10	<10	68	<10	51
CC144439		<20	0.11	<10	<10	83	<10	52
CC144440		<20	0.10	<10	<10	67	<10	48
CC144441		<20	0.10	<10	<10	84	<10	50
CC144442		<20	0.06	<10	<10	40	<10	27
CC144443		<20	0.10	<10	<10	88	<10	57
CC144444		<20	0.05	<10	<10	38	<10	29
CC144445		<20	0.11	<10	<10	66	<10	47
CC144446		<20	0.10	<10	<10	53	<10	41
CC144447		<20	0.06	<10	<10	46	<10	58
CC144448		<20	0.09	<10	<10	84	<10	45
CC144449		<20	0.03	<10	<10	17	<10	8
CC144450		<20	0.13	<10	<10	62	<10	54
CC144451		<20	0.09	<10	<10	52	<10	39
CC144452		<20	0.11	<10	<10	82	<10	56
CC144453		<20	0.11	<10	<10	72	<10	52
CC144454		<20	0.03	<10	<10	14	<10	7
CC144455		<20	0.11	<10	<10	74	<10	44
CC144456		<20	0.08	<10	<10	58	<10	50
CC144457		<20	0.10	<10	<10	61	<10	54
CC144458		<20	0.08	<10	<10	52	<10	50
CC144459		<20	0.06	<10	<10	59	<10	17
CC144460		<20	0.08	<10	<10	76	<10	58
CC144461		<20	0.08	<10	<10	49	<10	39
CC144462		<20	0.10	<10	<10	88	<10	60
CC144463		<20	0.11	<10	<10	63	<10	45
CC144464		<20	0.09	<10	<10	61	<10	43
CC144465		<20	0.10	<10	<10	77	<10	58
CC144466		<20	0.12	<10	<10	89	<10	57
CC144467		<20	0.10	<10	<10	67	<10	51
CC144468		<20	0.10	<10	<10	77	<10	55
CC144469		<20	0.09	<10	<10	67	<10	52
CC144470		<20	0.10	<10	<10	78	<10	60

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138853

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144471		0.18	0.009	<0.2	2.80	10	<10	250	0.7	<2	0.35	<0.5	11	46	32	3.27
CC144472		0.09	<0.001	<0.2	1.10	7	<10	140	<0.5	<2	0.25	<0.5	5	20	15	2.17
CC144473		0.22	0.002	<0.2	1.70	9	<10	160	0.5	2	0.32	<0.5	10	31	17	2.46
CC144474		0.23	0.009	<0.2	1.80	10	<10	160	0.5	2	0.42	<0.5	11	32	20	2.65
CC144475		0.17	0.007	<0.2	1.81	10	<10	160	0.5	<2	0.27	<0.5	11	33	18	2.53
CC144476		0.19	0.001	<0.2	2.10	13	<10	180	0.6	<2	0.25	<0.5	12	31	21	2.91
CC144477		0.21	0.006	<0.2	1.88	14	<10	170	<0.5	2	0.23	<0.5	10	30	17	3.00
CC144478		0.14	0.004	<0.2	2.17	10	<10	160	0.5	3	0.30	<0.5	9	32	22	2.81
CC144479		0.14	0.003	<0.2	1.65	11	<10	120	<0.5	2	0.14	<0.5	8	25	16	2.44
CC144480		0.16	0.002	<0.2	1.83	10	<10	160	0.5	<2	0.12	<0.5	8	27	22	2.67
CC144481		0.11	0.002	<0.2	1.50	8	<10	110	<0.5	<2	0.11	<0.5	12	21	16	2.53
CC144482		0.10	0.004	0.2	2.72	11	<10	230	0.6	2	0.35	<0.5	9	37	23	3.10
CC144483		0.13	0.002	<0.2	2.16	9	<10	210	0.5	<2	0.42	<0.5	9	30	20	2.48
CC144484		0.08	0.001	0.2	1.42	5	<10	100	<0.5	2	0.63	<0.5	6	18	17	1.88
CC144485		0.10	0.016	<0.2	1.87	12	<10	140	0.5	3	0.28	<0.5	10	33	19	2.69
CC144486		0.11	0.008	<0.2	1.91	11	<10	90	<0.5	2	0.19	<0.5	10	29	13	2.58
CC144487		0.29	0.007	<0.2	1.47	11	<10	150	0.6	2	0.41	<0.5	10	33	21	2.45
CC144488		0.17	0.002	<0.2	1.83	11	<10	100	0.6	3	0.10	<0.5	12	30	18	3.16
CC144489		0.14	0.002	<0.2	1.25	7	<10	140	<0.5	<2	0.20	<0.5	8	21	21	1.82
CC144490		0.28	0.005	<0.2	1.49	7	<10	130	0.5	<2	0.31	<0.5	9	32	20	2.33
CC144491		0.18	0.005	<0.2	1.91	12	<10	150	0.7	2	0.19	<0.5	12	33	21	2.64
CC144492		0.17	0.017	<0.2	2.21	15	<10	200	0.8	<2	0.29	<0.5	13	38	29	2.99
CC144493		0.11	0.012	<0.2	2.26	15	<10	180	0.9	2	0.22	<0.5	12	37	21	3.19
CC144494		0.26	0.024	<0.2	1.39	12	<10	130	1.3	<2	0.28	<0.5	9	27	16	2.33
CC144495		0.23	0.025	<0.2	2.31	20	<10	180	1.2	<2	0.21	<0.5	16	35	22	2.94
CC144496		0.18	0.024	<0.2	2.38	23	<10	190	1.0	3	0.24	<0.5	20	37	19	3.26
CC144497		0.12	0.013	0.2	2.06	15	<10	160	0.7	2	0.30	<0.5	11	36	21	2.72
CC144498		0.12	0.010	0.2	1.80	12	<10	170	0.5	2	0.29	<0.5	11	31	18	2.44
CC144499		0.13	0.009	<0.2	2.85	14	<10	270	0.8	4	0.24	<0.5	13	41	24	3.38
CC144500		0.16	0.002	<0.2	1.75	12	<10	130	<0.5	2	0.12	<0.5	8	28	17	2.96
CC144501		0.10	0.013	<0.2	1.42	6	<10	160	<0.5	2	0.24	<0.5	7	25	17	1.80
CC144502		0.17	0.025	<0.2	1.96	14	<10	170	0.5	3	0.24	<0.5	10	32	21	2.55
CC144503		0.18	0.011	<0.2	1.73	13	<10	140	<0.5	<2	0.27	<0.5	15	30	16	2.52
CC144504		0.07	0.020	<0.2	1.53	11	<10	150	<0.5	2	0.21	<0.5	7	27	15	3.19
CC144505		0.14	0.038	<0.2	1.95	17	<10	190	0.5	3	0.27	<0.5	11	32	18	2.59
CC144506		0.20	0.014	<0.2	2.18	19	<10	180	0.7	2	0.26	<0.5	14	36	23	3.16
CC144507		0.24	0.006	<0.2	1.51	12	<10	120	0.5	<2	0.24	<0.5	9	28	16	2.25
CC144508		0.20	0.010	<0.2	1.47	9	<10	130	0.5	<2	0.28	<0.5	9	28	16	2.40
CC144509		0.15	<0.001	<0.2	2.34	15	<10	170	0.6	3	0.23	<0.5	13	37	20	3.42
CC144510		0.16	0.004	<0.2	2.07	14	<10	110	<0.5	3	0.14	<0.5	10	33	17	3.19

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
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Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138853

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144471		10	1	0.07	20	0.51	449	2	0.02	33	460	14	0.02	<2	5	33
CC144472		10	<1	0.05	10	0.23	206	1	0.01	12	380	11	0.03	<2	1	24
CC144473		10	<1	0.05	20	0.47	448	<1	0.02	21	420	9	0.02	<2	4	26
CC144474		<10	<1	0.05	20	0.50	380	<1	0.02	23	550	9	0.02	<2	4	29
CC144475		<10	<1	0.04	20	0.47	335	<1	0.01	22	410	10	0.02	<2	4	22
CC144476		10	<1	0.06	30	0.41	606	1	0.02	20	430	13	0.02	<2	3	28
CC144477		10	<1	0.07	10	0.42	483	1	0.01	20	330	14	0.02	<2	3	21
CC144478		10	<1	0.05	20	0.45	269	1	0.02	21	310	12	0.02	<2	4	25
CC144479		10	<1	0.06	20	0.31	262	1	0.01	15	310	11	0.02	<2	3	14
CC144480		10	<1	0.05	20	0.31	232	1	0.01	15	300	12	0.01	<2	4	15
CC144481		10	<1	0.04	10	0.15	1160	1	0.01	10	390	10	0.01	<2	2	11
CC144482		10	<1	0.06	20	0.49	332	1	0.02	24	440	14	0.03	<2	4	30
CC144483		10	<1	0.06	20	0.41	358	<1	0.02	20	440	9	0.02	<2	4	37
CC144484		<10	<1	0.05	10	0.18	255	<1	0.02	12	370	7	0.03	<2	2	44
CC144485		10	<1	0.06	10	0.44	370	1	0.02	21	710	9	0.02	<2	3	21
CC144486		10	<1	0.05	10	0.47	279	<1	0.01	18	330	10	0.02	<2	3	18
CC144487		<10	<1	0.04	40	0.48	488	<1	0.02	21	670	12	0.01	2	5	29
CC144488		10	<1	0.05	10	0.27	840	3	0.01	13	450	14	0.02	<2	3	13
CC144489		10	<1	0.05	20	0.20	529	1	0.02	12	330	7	0.01	<2	3	24
CC144490		<10	1	0.04	20	0.47	332	<1	0.01	19	560	9	0.01	<2	4	22
CC144491		10	<1	0.06	20	0.37	689	1	0.02	19	520	13	0.03	<2	3	18
CC144492		<10	<1	0.05	20	0.54	519	1	0.01	31	650	12	0.02	<2	5	23
CC144493		10	<1	0.06	20	0.52	488	1	0.01	21	500	13	0.02	2	4	21
CC144494		<10	<1	0.07	30	0.40	384	<1	0.02	17	590	12	0.01	2	4	22
CC144495		10	<1	0.06	30	0.46	938	1	0.02	21	630	19	0.03	<2	5	23
CC144496		10	1	0.06	20	0.44	1250	2	0.02	20	880	21	0.05	<2	5	25
CC144497		10	<1	0.06	10	0.53	316	<1	0.02	21	670	10	0.03	<2	4	25
CC144498		<10	<1	0.05	20	0.48	329	<1	0.02	20	700	10	0.04	<2	4	25
CC144499		10	<1	0.07	30	0.50	469	1	0.01	25	620	13	0.04	<2	5	27
CC144500		10	<1	0.05	10	0.34	185	1	0.01	17	330	9	0.02	<2	3	15
CC144501		<10	<1	0.04	10	0.32	152	<1	0.02	15	700	7	0.04	<2	2	23
CC144502		<10	<1	0.05	20	0.43	279	<1	0.02	19	620	8	0.03	<2	4	20
CC144503		10	<1	0.05	10	0.50	675	1	0.02	19	620	7	0.02	<2	3	22
CC144504		<10	<1	0.04	10	0.34	139	<1	0.02	15	670	8	0.06	<2	3	21
CC144505		10	1	0.05	10	0.42	399	1	0.02	20	690	10	0.04	<2	4	24
CC144506		10	<1	0.06	10	0.46	548	1	0.01	22	500	12	0.03	<2	4	26
CC144507		<10	<1	0.05	10	0.38	271	<1	0.01	19	480	9	0.02	2	3	21
CC144508		<10	<1	0.05	10	0.43	336	<1	0.01	20	440	8	0.01	<2	3	22
CC144509		10	1	0.07	10	0.51	483	1	0.01	22	580	13	0.03	<2	4	23
CC144510		10	<1	0.06	10	0.42	407	1	0.01	16	450	10	0.02	<2	4	15

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144471		<20	0.11	<10	<10	79	<10	63
CC144472		<20	0.08	<10	<10	68	<10	36
CC144473		<20	0.09	<10	<10	59	<10	47
CC144474		<20	0.11	<10	<10	64	<10	49
CC144475		<20	0.09	<10	<10	62	<10	47
CC144476		<20	0.09	<10	<10	72	<10	45
CC144477		<20	0.11	<10	<10	75	<10	48
CC144478		<20	0.10	<10	<10	72	<10	46
CC144479		<20	0.11	<10	<10	70	<10	37
CC144480		<20	0.11	<10	<10	82	<10	44
CC144481		<20	0.07	<10	<10	68	<10	36
CC144482		<20	0.09	<10	<10	77	<10	57
CC144483		<20	0.09	<10	<10	60	<10	51
CC144484		<20	0.06	<10	<10	46	<10	30
CC144485		<20	0.09	<10	<10	63	<10	54
CC144486		<20	0.10	<10	<10	64	<10	49
CC144487		<20	0.12	<10	<10	63	<10	57
CC144488		<20	0.09	<10	<10	85	<10	57
CC144489		<20	0.08	<10	<10	48	<10	33
CC144490		<20	0.10	<10	<10	56	<10	42
CC144491		<20	0.09	<10	<10	63	<10	46
CC144492		<20	0.11	<10	<10	72	<10	57
CC144493		<20	0.10	<10	<10	74	<10	56
CC144494		<20	0.08	<10	<10	52	<10	47
CC144495		<20	0.08	<10	<10	60	<10	55
CC144496		<20	0.07	<10	<10	71	<10	60
CC144497		<20	0.09	<10	<10	64	<10	57
CC144498		<20	0.08	<10	<10	56	<10	50
CC144499		<20	0.09	<10	<10	79	<10	56
CC144500		<20	0.10	<10	<10	88	<10	41
CC144501		<20	0.06	<10	<10	38	<10	36
CC144502		<20	0.09	<10	<10	59	<10	50
CC144503		<20	0.09	<10	<10	62	<10	53
CC144504		<20	0.06	<10	<10	48	<10	39
CC144505		<20	0.08	<10	<10	61	<10	52
CC144506		<20	0.09	<10	<10	77	<10	58
CC144507		<20	0.08	<10	<10	53	<10	43
CC144508		<20	0.09	<10	<10	57	<10	47
CC144509		<20	0.10	<10	<10	81	<10	58
CC144510		<20	0.12	<10	<10	87	<10	48

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 1- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138853

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC144511		0.09	0.006	<0.2	1.25	9	<10	70	<0.5	<2	0.13	<0.5	7	20	12	2.11
CC144512		0.12	0.003	<0.2	2.19	9	<10	140	<0.5	<2	0.21	<0.5	9	33	15	2.68
CC144513		0.12	0.006	<0.2	1.76	8	<10	160	0.7	3	0.28	<0.5	7	29	18	1.87
CC144514		0.30	0.011	<0.2	1.31	12	<10	120	0.6	<2	0.22	<0.5	8	26	12	1.97
CC144515		0.23	0.014	<0.2	2.04	21	<10	190	0.8	2	0.33	<0.5	13	37	21	2.89
CC144516		0.26	0.014	<0.2	1.26	12	<10	120	0.5	<2	0.21	<0.5	7	22	13	1.91
CC144517		0.19	0.028	<0.2	1.91	20	<10	150	0.8	2	0.22	<0.5	12	31	21	2.71
CC144518		0.24	0.022	<0.2	1.47	14	<10	130	0.8	<2	0.19	<0.5	9	25	15	2.25
CC144519		0.21	0.026	<0.2	1.35	13	<10	100	0.5	2	0.21	<0.5	10	25	12	2.19
CC144520		0.27	0.029	<0.2	1.32	19	<10	140	1.0	2	0.22	<0.5	10	34	15	2.19
CC144521		0.21	0.015	<0.2	1.81	11	<10	150	<0.5	2	0.25	<0.5	10	31	18	2.46
CC144522		0.13	0.009	<0.2	1.37	10	<10	110	<0.5	2	0.23	<0.5	7	23	12	1.95
CC144523		0.26	0.013	<0.2	1.92	10	<10	170	<0.5	<2	0.29	<0.5	10	32	17	2.54
CC144524		0.10	0.009	<0.2	1.52	6	<10	160	<0.5	2	0.27	<0.5	8	24	15	2.02
CC144525		0.13	0.007	<0.2	1.51	9	<10	160	<0.5	<2	0.27	<0.5	8	26	17	2.14
CC144526		0.22	0.009	<0.2	1.78	6	<10	80	0.6	2	0.14	<0.5	12	34	12	2.16
CC144527		0.26	0.006	<0.2	1.16	5	<10	110	0.5	2	0.26	<0.5	7	25	13	1.58
CC144528		0.29	0.005	<0.2	1.71	10	<10	160	0.5	<2	0.32	<0.5	10	30	14	2.43
CC144529		0.19	0.002	<0.2	1.71	9	<10	170	<0.5	3	0.31	<0.5	9	30	15	2.45
CC144530		0.22	0.004	<0.2	2.01	9	<10	180	<0.5	<2	0.32	<0.5	9	32	18	2.54
CC144531		0.14	0.007	<0.2	1.74	9	<10	210	<0.5	<2	0.40	<0.5	8	28	16	2.30
CC144532		0.29	0.004	<0.2	1.81	10	<10	190	<0.5	<2	0.36	<0.5	9	31	16	2.57
CC144533		0.23	0.002	<0.2	2.64	13	<10	280	0.7	<2	0.27	<0.5	13	36	26	3.20
CC144534		0.18	0.003	<0.2	1.59	11	<10	160	<0.5	<2	0.26	<0.5	8	26	16	2.55
CC144535		0.16	0.001	<0.2	1.58	11	<10	160	<0.5	<2	0.18	<0.5	9	27	17	2.52
CC144536		0.18	0.008	<0.2	2.07	11	<10	180	0.5	<2	0.36	<0.5	12	35	35	2.99
CC144537		0.30	0.004	<0.2	1.63	9	<10	170	<0.5	<2	0.32	<0.5	9	33	17	2.40
CC144538		0.19	0.004	<0.2	1.72	8	<10	150	<0.5	2	0.23	<0.5	8	27	15	2.26
CC144539		0.17	0.004	<0.2	1.99	9	<10	200	0.5	3	0.34	<0.5	9	32	16	2.68
CC144540		0.21	0.004	<0.2	1.91	12	<10	170	<0.5	<2	0.36	<0.5	8	31	16	2.61
CC144541		0.07	0.006	<0.2	2.98	14	<10	240	0.6	3	0.22	<0.5	13	38	27	3.55
CC144542		0.18	0.007	<0.2	2.43	14	<10	200	0.6	<2	0.29	<0.5	12	38	22	3.38
CC144543		0.09	0.010	0.2	1.31	4	<10	90	<0.5	<2	0.18	<0.5	6	23	10	1.82
CC144544		0.17	0.007	0.2	1.41	5	<10	100	<0.5	2	0.18	<0.5	5	23	10	2.00
CC144545		0.09	0.011	0.2	1.22	5	<10	90	<0.5	2	0.18	<0.5	3	21	8	1.62
CC144546		0.10	0.009	0.2	1.22	5	<10	80	<0.5	<2	0.17	<0.5	4	22	8	1.71
CC144547		0.14	0.005	0.2	1.17	7	<10	90	<0.5	<2	0.17	<0.5	4	20	9	1.73
CC144548		0.13	0.003	0.2	1.38	2	<10	90	<0.5	<2	0.16	<0.5	6	23	9	1.88
CC144549		0.09	<0.001	0.2	1.54	4	<10	90	<0.5	2	0.19	<0.5	7	27	10	2.08
CC144550		0.14	0.011	0.2	1.62	2	<10	140	0.6	<2	0.22	<0.5	6	28	11	1.80

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138853

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144511		10	<1	0.05	10	0.26	185	<1	0.02	12	300	6	0.03	<2	2	14
CC144512		10	<1	0.06	10	0.44	211	<1	0.02	18	310	8	0.02	2	4	21
CC144513		10	<1	0.05	20	0.34	124	<1	0.02	17	630	10	0.06	<2	3	26
CC144514		<10	1	0.08	20	0.36	291	<1	0.01	15	330	8	0.02	<2	3	18
CC144515		10	<1	0.07	20	0.53	580	1	0.01	23	460	13	0.02	<2	4	30
CC144516		<10	<1	0.05	10	0.27	204	<1	0.01	15	290	7	0.02	<2	3	19
CC144517		10	<1	0.05	10	0.38	502	1	0.01	20	450	12	0.02	<2	4	21
CC144518		<10	<1	0.07	20	0.35	327	<1	0.02	16	390	10	0.02	<2	3	19
CC144519		<10	<1	0.05	20	0.40	415	<1	0.01	16	350	7	0.01	<2	3	19
CC144520		<10	<1	0.13	40	0.45	436	1	0.01	19	420	10	0.01	2	4	22
CC144521		<10	1	0.05	10	0.43	299	<1	0.01	18	550	8	0.03	<2	3	21
CC144522		<10	<1	0.04	10	0.37	166	<1	0.01	15	520	5	0.03	<2	3	19
CC144523		10	<1	0.05	20	0.50	234	<1	0.02	19	620	8	0.02	2	4	26
CC144524		<10	<1	0.04	10	0.38	140	<1	0.02	16	600	6	0.05	<2	3	25
CC144525		<10	<1	0.05	10	0.38	236	<1	0.02	17	610	7	0.04	<2	3	25
CC144526		<10	1	0.21	50	0.60	584	1	0.01	18	300	10	0.02	<2	3	15
CC144527		<10	1	0.06	20	0.34	138	<1	0.02	13	380	9	0.01	<2	3	21
CC144528		<10	<1	0.05	20	0.45	300	<1	0.02	19	390	7	0.02	<2	4	25
CC144529		<10	<1	0.05	10	0.44	307	<1	0.02	18	340	7	0.02	<2	4	25
CC144530		10	<1	0.05	20	0.46	267	<1	0.02	19	390	7	0.02	<2	4	27
CC144531		<10	<1	0.05	20	0.38	239	<1	0.02	18	410	7	0.03	<2	4	33
CC144532		10	<1	0.06	20	0.46	325	<1	0.02	20	380	8	0.02	<2	4	29
CC144533		10	<1	0.07	20	0.45	501	1	0.02	24	470	12	0.02	<2	5	25
CC144534		10	<1	0.07	20	0.36	327	1	0.02	16	340	9	0.02	<2	3	23
CC144535		10	<1	0.05	20	0.37	315	1	0.01	16	350	8	0.02	<2	3	19
CC144536		10	<1	0.08	20	0.53	453	1	0.02	39	440	11	0.02	<2	4	28
CC144537		<10	<1	0.05	20	0.45	297	<1	0.02	20	380	6	0.02	<2	4	24
CC144538		10	<1	0.05	20	0.35	196	1	0.02	18	310	6	0.02	<2	3	22
CC144539		10	<1	0.06	20	0.46	323	<1	0.02	21	440	9	0.02	<2	3	27
CC144540		10	<1	0.07	20	0.49	231	<1	0.02	20	400	10	0.03	<2	4	29
CC144541		10	<1	0.07	30	0.43	491	1	0.02	25	620	14	0.05	<2	5	26
CC144542		10	<1	0.07	20	0.53	513	1	0.02	23	480	12	0.02	<2	4	25
CC144543		<10	<1	0.04	20	0.35	180	<1	0.02	13	450	11	0.04	<2	2	16
CC144544		<10	<1	0.04	10	0.35	154	<1	0.02	12	470	10	0.04	<2	2	18
CC144545		<10	<1	0.04	10	0.30	90	<1	0.02	10	450	9	0.05	<2	2	17
CC144546		<10	<1	0.05	10	0.33	98	<1	0.02	11	470	9	0.05	<2	2	17
CC144547		<10	<1	0.04	10	0.27	98	<1	0.02	10	540	9	0.05	<2	2	17
CC144548		<10	<1	0.04	10	0.36	168	<1	0.02	12	450	8	0.04	<2	2	16
CC144549		10	1	0.05	10	0.42	235	<1	0.02	13	410	10	0.04	<2	3	18
CC144550		10	<1	0.05	20	0.44	186	<1	0.02	15	490	8	0.05	<2	3	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11138853

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144511		<20	0.08	<10	<10	54	<10	31
CC144512		<20	0.11	<10	<10	66	<10	44
CC144513		<20	0.06	<10	<10	45	<10	32
CC144514		20	0.07	<10	<10	43	<10	36
CC144515		<20	0.09	<10	<10	66	<10	56
CC144516		<20	0.08	<10	<10	44	<10	34
CC144517		<20	0.08	<10	<10	61	<10	51
CC144518		<20	0.09	<10	<10	47	<10	45
CC144519		<20	0.08	<10	<10	49	<10	41
CC144520		20	0.09	<10	<10	44	<10	44
CC144521		<20	0.09	<10	<10	59	<10	50
CC144522		<20	0.07	<10	<10	46	<10	41
CC144523		<20	0.09	<10	<10	58	<10	54
CC144524		<20	0.07	<10	<10	41	<10	40
CC144525		<20	0.07	<10	<10	48	<10	43
CC144526		30	0.09	<10	<10	41	<10	42
CC144527		<20	0.10	<10	<10	38	<10	40
CC144528		<20	0.10	<10	<10	56	<10	42
CC144529		<20	0.10	<10	<10	59	<10	42
CC144530		<20	0.09	<10	<10	60	<10	51
CC144531		<20	0.08	<10	<10	54	<10	45
CC144532		<20	0.10	<10	<10	62	<10	49
CC144533		<20	0.09	<10	<10	74	<10	58
CC144534		<20	0.10	<10	<10	70	<10	50
CC144535		<20	0.09	<10	<10	69	<10	44
CC144536		<20	0.11	<10	<10	74	<10	74
CC144537		<20	0.09	<10	<10	58	<10	43
CC144538		<20	0.08	<10	<10	56	<10	38
CC144539		<20	0.09	<10	<10	64	<10	48
CC144540		<20	0.11	<10	<10	70	<10	55
CC144541		<20	0.09	<10	<10	86	<10	58
CC144542		<20	0.11	<10	<10	85	<10	62
CC144543		<20	0.06	<10	<10	46	<10	42
CC144544		<20	0.06	<10	<10	53	<10	42
CC144545		<20	0.06	<10	<10	32	<10	34
CC144546		<20	0.06	<10	<10	36	<10	34
CC144547		<20	0.05	<10	<10	31	<10	32
CC144548		<20	0.06	<10	<10	41	<10	39
CC144549		<20	0.07	<10	<10	50	<10	45
CC144550		<20	0.07	<10	<10	39	<10	45

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144551		0.09	0.007	0.2	1.29	4	<10	90	<0.5	<2	0.18	<0.5	4	22	8	1.75
CC144552		0.12	0.003	0.2	1.54	7	<10	120	<0.5	<2	0.22	<0.5	7	25	10	2.11
CC144553		0.12	0.002	0.2	1.62	6	<10	110	0.5	<2	0.20	<0.5	9	28	11	2.33
CC144554		0.13	0.002	<0.2	1.74	6	<10	60	<0.5	<2	0.09	<0.5	6	26	11	2.77
CC144555		0.15	0.004	<0.2	1.16	10	<10	70	0.5	2	0.13	<0.5	9	24	12	2.27
CC144556		0.13	0.004	0.2	1.72	7	<10	150	0.7	<2	0.24	<0.5	5	26	10	1.90
CC144557		0.15	0.004	<0.2	1.91	14	<10	120	0.7	<2	0.24	<0.5	13	46	12	3.02
CC144558		0.12	0.004	0.2	1.60	3	<10	160	0.6	<2	0.39	<0.5	9	39	12	2.31
CC144559		0.16	0.004	0.2	1.52	6	<10	130	0.6	<2	0.41	<0.5	10	36	15	2.43
CC144560		0.09	0.006	0.2	1.53	2	<10	130	<0.5	<2	0.32	<0.5	8	34	11	2.20
CC144561		0.21	0.007	<0.2	0.81	<2	<10	60	<0.5	<2	0.13	<0.5	4	16	5	1.31
CC144562		0.13	0.006	0.2	2.21	10	<10	210	0.7	2	0.39	<0.5	11	39	17	2.94
CC144563		0.23	0.007	<0.2	1.75	7	<10	150	<0.5	<2	0.28	<0.5	7	31	12	2.51
CC144564		0.14	0.001	0.2	2.10	3	<10	220	<0.5	<2	0.37	<0.5	7	28	15	2.57
CC144565		0.32	0.003	0.2	1.51	5	<10	160	<0.5	<2	0.35	<0.5	7	29	14	2.35
CC144566		0.22	0.002	0.2	1.88	8	<10	170	0.5	<2	0.33	<0.5	8	30	14	2.68
CC144567		0.23	0.002	0.3	2.09	5	<10	190	0.5	<2	0.29	<0.5	8	31	16	2.58
CC144568		0.20	0.008	0.3	1.71	6	<10	150	0.7	<2	0.23	<0.5	12	30	15	2.59
CC144569		0.13	0.007	<0.2	2.20	7	<10	110	0.6	<2	0.18	<0.5	10	32	13	2.77
CC144570		0.18	0.007	0.2	1.58	5	<10	130	<0.5	<2	0.22	<0.5	11	26	11	2.40
CC144571		0.20	0.007	0.3	1.71	5	<10	140	<0.5	<2	0.21	<0.5	10	27	11	2.57
CC144572		0.22	0.005	0.2	1.62	5	<10	140	<0.5	<2	0.22	<0.5	11	31	13	2.31
CC144573		0.36	0.006	<0.2	1.93	7	<10	140	0.8	<2	0.25	<0.5	11	39	16	2.76
CC144574		0.14	0.001	<0.2	0.72	5	<10	40	<0.5	<2	0.06	<0.5	2	11	7	1.15
CC144575		0.18	0.003	<0.2	2.07	36	<10	150	0.9	<2	0.21	0.5	13	40	14	3.83
CC144576		0.29	0.005	0.2	1.66	11	<10	150	1.3	3	0.22	<0.5	8	30	16	2.36
CC144577		0.20	0.005	0.2	1.93	12	<10	170	1.2	<2	0.28	<0.5	12	41	17	2.90
CC144578		0.18	<0.001	<0.2	1.77	15	<10	80	1.2	2	0.23	<0.5	12	52	18	3.14
CC144579		0.18	0.027	<0.2	2.04	33	<10	190	1.5	<2	0.32	<0.5	12	39	22	3.05
CC144580		0.23	0.002	<0.2	1.99	13	<10	150	0.7	<2	0.52	<0.5	17	55	13	3.40
CC144581		0.13	0.005	<0.2	1.76	6	<10	130	0.5	<2	0.36	<0.5	13	41	13	2.47
CC144582		0.16	0.014	<0.2	1.55	13	<10	80	<0.5	<2	0.21	<0.5	11	36	10	2.52
CC144583		0.15	0.002	<0.2	1.67	5	<10	120	<0.5	<2	0.29	<0.5	8	32	14	2.15
CC144584		0.19	0.001	0.2	1.37	6	<10	90	<0.5	<2	0.23	<0.5	6	26	11	2.12
CC144585		0.13	0.001	<0.2	1.34	5	<10	90	<0.5	<2	0.23	<0.5	5	27	9	1.73
CC144586		0.29	0.003	<0.2	1.87	5	<10	150	0.7	<2	0.42	<0.5	12	47	17	2.74
CC144587		0.41	0.005	<0.2	1.74	11	<10	120	0.9	<2	0.36	<0.5	11	46	17	2.38
CC144588		0.30	0.011	<0.2	1.58	8	<10	140	0.6	<2	0.33	<0.5	7	30	14	2.33
CC144589		0.29	0.004	<0.2	1.75	8	<10	150	<0.5	<2	0.27	<0.5	9	29	12	2.53
CC144590		0.14	0.002	<0.2	2.00	4	<10	140	0.6	<2	0.58	<0.5	15	52	17	2.85

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 1- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138853

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144551		<10	<1	0.04	10	0.34	102	<1	0.02	11	430	12	0.04	<2	2	17
CC144552		<10	<1	0.05	10	0.40	263	<1	0.02	14	510	10	0.04	<2	3	20
CC144553		10	<1	0.05	10	0.41	409	<1	0.02	14	460	12	0.04	<2	3	19
CC144554		10	<1	0.04	10	0.30	217	<1	0.02	12	230	8	0.02	<2	3	11
CC144555		10	<1	0.05	10	0.29	540	<1	0.02	15	240	11	0.02	<2	2	14
CC144556		10	<1	0.07	20	0.40	141	<1	0.02	13	500	12	0.05	<2	4	22
CC144557		10	<1	0.10	10	0.72	660	<1	0.02	21	470	10	0.02	<2	5	18
CC144558		10	<1	0.09	20	0.60	353	<1	0.02	19	570	9	0.05	<2	4	27
CC144559		<10	<1	0.20	20	0.78	418	<1	0.02	20	550	12	0.02	<2	4	24
CC144560		10	<1	0.06	10	0.56	239	<1	0.02	17	470	10	0.04	<2	4	22
CC144561		<10	<1	0.05	20	0.19	121	<1	0.01	8	190	6	0.01	<2	2	12
CC144562		10	<1	0.08	20	0.55	438	<1	0.02	21	470	9	0.03	<2	5	32
CC144563		10	<1	0.05	10	0.44	307	<1	0.02	17	380	7	0.02	<2	3	23
CC144564		10	<1	0.07	10	0.40	275	<1	0.03	16	260	10	0.03	<2	4	31
CC144565		<10	<1	0.05	20	0.46	299	<1	0.02	15	360	6	0.02	<2	4	27
CC144566		10	<1	0.05	20	0.48	348	<1	0.02	16	380	8	0.02	<2	4	26
CC144567		10	<1	0.07	20	0.44	296	<1	0.02	17	330	10	0.03	<2	4	26
CC144568		10	<1	0.05	20	0.42	748	<1	0.02	17	490	13	0.03	<2	3	21
CC144569		10	<1	0.05	10	0.45	333	<1	0.02	17	400	14	0.03	<2	4	16
CC144570		10	<1	0.04	10	0.41	488	<1	0.02	15	540	10	0.04	<2	3	19
CC144571		10	<1	0.05	10	0.44	497	<1	0.02	15	560	10	0.04	<2	3	20
CC144572		10	<1	0.05	10	0.47	466	<1	0.02	17	530	9	0.04	<2	3	20
CC144573		10	<1	0.07	20	0.58	345	<1	0.02	19	480	9	0.03	<2	5	20
CC144574		<10	<1	0.03	10	0.09	73	<1	0.02	5	240	11	0.03	<2	1	8
CC144575		10	<1	0.06	10	0.55	664	<1	0.02	24	400	17	0.02	<2	4	18
CC144576		<10	1	0.06	40	0.40	466	<1	0.02	17	430	16	0.03	<2	4	20
CC144577		10	<1	0.12	20	0.64	556	<1	0.02	22	420	20	0.02	<2	5	23
CC144578		<10	<1	0.09	20	0.60	336	<1	0.02	27	490	13	0.02	<2	5	15
CC144579		10	<1	0.15	30	0.57	412	1	0.02	29	600	16	0.05	<2	7	26
CC144580		10	<1	0.15	10	0.92	612	1	0.02	27	560	7	0.04	<2	6	30
CC144581		10	<1	0.08	20	0.82	522	1	0.02	19	580	10	0.06	<2	4	26
CC144582		10	<1	0.06	10	0.65	430	1	0.02	16	410	11	0.04	<2	3	18
CC144583		10	<1	0.05	20	0.58	186	2	0.02	19	490	13	0.06	<2	3	22
CC144584		10	<1	0.05	10	0.42	188	1	0.02	13	500	10	0.06	<2	2	20
CC144585		10	<1	0.05	10	0.45	128	1	0.02	13	470	13	0.06	<2	2	19
CC144586		10	<1	0.18	30	1.05	404	1	0.02	27	580	14	0.05	<2	4	25
CC144587		<10	<1	0.20	30	0.81	289	1	0.01	24	510	8	0.03	<2	4	26
CC144588		10	<1	0.07	30	0.45	263	1	0.02	17	410	8	0.03	<2	4	25
CC144589		10	<1	0.05	10	0.46	309	1	0.02	17	350	8	0.03	<2	3	23
CC144590		10	<1	0.15	30	1.09	572	1	0.02	31	710	7	0.07	<2	4	29

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11138853

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144551		<20	0.06	<10	<10	37	<10	38
CC144552		<20	0.07	<10	<10	48	<10	48
CC144553		<20	0.06	<10	<10	50	<10	47
CC144554		<20	0.10	<10	<10	70	<10	33
CC144555		<20	0.09	<10	<10	63	<10	43
CC144556		<20	0.06	<10	<10	37	<10	46
CC144557		<20	0.11	<10	<10	70	<10	57
CC144558		<20	0.09	<10	<10	54	<10	49
CC144559		<20	0.11	<10	<10	53	<10	54
CC144560		<20	0.09	<10	<10	51	<10	52
CC144561		<20	0.06	<10	<10	29	<10	23
CC144562		<20	0.10	<10	<10	65	<10	54
CC144563		<20	0.09	<10	<10	60	<10	44
CC144564		<20	0.10	<10	<10	64	<10	48
CC144565		<20	0.10	<10	<10	55	<10	45
CC144566		<20	0.09	<10	<10	62	<10	50
CC144567		<20	0.10	<10	<10	60	<10	49
CC144568		<20	0.08	<10	<10	61	<10	52
CC144569		<20	0.10	<10	<10	61	<10	49
CC144570		<20	0.07	<10	<10	55	<10	47
CC144571		<20	0.07	<10	<10	58	<10	52
CC144572		<20	0.07	<10	<10	53	<10	49
CC144573		<20	0.09	<10	<10	57	<10	52
CC144574		<20	0.05	<10	<10	29	<10	23
CC144575		<20	0.13	<10	<10	82	<10	92
CC144576		<20	0.08	<10	<10	52	<10	60
CC144577		<20	0.10	<10	<10	63	<10	65
CC144578		<20	0.09	<10	<10	62	<10	50
CC144579		<20	0.08	<10	10	61	<10	75
CC144580		<20	0.11	<10	<10	72	<10	63
CC144581		<20	0.11	<10	<10	56	<10	55
CC144582		<20	0.10	<10	<10	66	<10	57
CC144583		<20	0.09	<10	<10	46	<10	58
CC144584		<20	0.07	<10	<10	48	<10	46
CC144585		<20	0.08	<10	<10	33	<10	49
CC144586		<20	0.11	<10	<10	60	<10	71
CC144587		20	0.10	<10	10	45	<10	49
CC144588		<20	0.08	<10	<10	48	<10	46
CC144589		<20	0.09	<10	<10	59	<10	49
CC144590		<20	0.11	<10	<10	61	<10	64

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North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
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CERTIFICATE OF ANALYSIS WH11138853

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC144591		0.20	0.004	<0.2	1.96	5	<10	130	0.6	<2	0.64	<0.5	16	50	16	2.89
CC144592		0.10	<0.001	<0.2	1.57	7	<10	130	0.5	<2	0.40	<0.5	14	37	12	2.47
CC144593		0.20	<0.001	<0.2	1.71	8	<10	70	<0.5	<2	0.19	<0.5	11	40	14	2.78
CC144594		0.18	0.005	<0.2	1.62	7	<10	70	<0.5	<2	0.19	<0.5	9	35	11	2.60
CC144595		0.11	0.003	0.2	1.88	5	<10	120	0.7	<2	0.39	<0.5	12	54	17	2.60
CC144596		0.15	0.002	<0.2	1.28	7	<10	50	<0.5	<2	0.15	<0.5	9	26	8	2.48
CC144597		0.21	0.006	<0.2	1.97	7	<10	130	0.5	<2	0.35	<0.5	11	35	18	2.69
CC144598		0.22	0.006	0.2	1.90	9	<10	140	0.5	<2	0.35	<0.5	11	40	16	2.62
CC144599		0.12	0.003	<0.2	2.13	8	<10	180	0.8	<2	0.61	<0.5	14	48	20	2.86
CC144600		0.18	0.012	<0.2	1.80	7	<10	150	0.6	<2	0.28	<0.5	8	31	16	1.75
CC144601		0.36	0.013	<0.2	1.70	11	<10	120	0.5	<2	0.25	<0.5	9	30	17	2.40
CC144602		0.22	0.011	<0.2	1.77	8	<10	170	0.5	<2	0.34	<0.5	10	30	23	2.65
CC144603		0.15	0.003	<0.2	1.71	7	<10	140	<0.5	<2	0.29	<0.5	7	28	18	2.32
CC144604		0.15	0.003	<0.2	1.88	6	<10	140	<0.5	<2	0.27	<0.5	7	30	15	2.30
CC144605		0.36	0.005	<0.2	1.86	9	<10	140	0.5	<2	0.25	<0.5	9	30	16	2.65
CC144606		0.35	0.002	<0.2	2.26	10	<10	180	0.7	<2	0.29	<0.5	12	44	20	3.00
CC144607		0.15	0.004	<0.2	0.88	11	<10	80	<0.5	<2	0.10	<0.5	5	21	16	1.74
CC144608		0.18	0.005	<0.2	1.74	22	<10	130	1.2	<2	0.26	<0.5	14	46	17	2.98
CC144609		0.17	0.001	<0.2	2.37	11	<10	130	0.7	<2	0.23	<0.5	15	42	16	3.11
CC144610		0.14	0.003	<0.2	1.63	10	<10	60	<0.5	<2	0.09	<0.5	6	25	13	2.95
CC144611		0.40	0.003	<0.2	1.96	10	<10	120	1.2	<2	0.30	<0.5	12	43	21	2.98
CC144612		0.20	0.015	0.2	2.25	14	<10	200	0.9	<2	0.33	<0.5	9	44	16	2.60
CC144613		0.29	0.001	<0.2	1.87	9	<10	180	0.7	<2	0.36	<0.5	11	34	18	2.64
CC144614		0.42	0.007	<0.2	1.84	9	<10	170	0.5	<2	0.33	<0.5	10	32	23	2.79
CC144615		0.33	0.003	<0.2	1.75	8	<10	210	0.5	<2	0.45	<0.5	9	32	27	2.67
CC144616		0.25	0.005	<0.2	1.50	8	<10	140	<0.5	<2	0.26	<0.5	7	25	14	2.17
CC144617		0.27	0.003	<0.2	2.00	9	<10	190	0.5	<2	0.31	<0.5	11	34	25	2.83
CC144618		0.43	0.002	<0.2	2.09	10	<10	180	0.5	<2	0.34	<0.5	11	37	21	2.83
CC144619		0.37	0.013	<0.2	1.61	18	<10	190	0.8	<2	0.37	<0.5	9	33	21	2.35
CC144620		0.24	0.028	<0.2	2.30	26	<10	220	1.5	<2	0.30	<0.5	15	48	48	3.13
CC144621		0.24	0.016	<0.2	2.16	17	<10	220	1.0	<2	0.45	<0.5	15	47	27	3.11
CC144622		0.33	0.004	<0.2	1.93	14	<10	180	1.6	<2	0.30	<0.5	12	46	23	2.91
CC144623		0.26	0.011	<0.2	2.49	15	<10	130	0.9	<2	0.26	<0.5	15	93	14	3.73
CC144624		0.42	0.004	<0.2	2.20	6	<10	170	0.8	<2	0.45	<0.5	13	48	24	2.87
CC144625		0.35	0.016	<0.2	2.31	21	<10	150	0.7	<2	0.34	<0.5	14	47	20	3.42
CC144626		0.23	0.004	<0.2	2.06	10	<10	90	0.5	<2	0.21	<0.5	12	36	13	3.09
CC144627		0.20	0.002	<0.2	2.28	3	<10	100	0.7	<2	0.35	<0.5	14	52	18	3.07
CC144628		0.17	0.002	<0.2	2.24	9	<10	180	0.9	<2	0.79	<0.5	14	54	22	3.08
CC144629		0.19	0.001	<0.2	2.20	7	<10	90	0.7	<2	0.43	<0.5	15	58	14	3.06
CC144630		0.32	0.007	<0.2	2.11	6	<10	150	0.9	<2	0.61	<0.5	14	62	17	3.22

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	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144591		10	<1	0.20	20	1.15	596	1	0.02	30	710	8	0.05	<2	4	30
CC144592		10	<1	0.09	20	0.69	535	1	0.02	20	550	12	0.05	<2	4	25
CC144593		10	<1	0.06	10	0.69	309	1	0.02	22	400	16	0.04	<2	4	17
CC144594		10	<1	0.06	10	0.62	223	1	0.02	17	350	19	0.05	<2	3	17
CC144595		10	<1	0.20	20	1.06	395	1	0.02	23	680	18	0.06	<2	4	25
CC144596		10	<1	0.09	10	0.52	306	1	0.01	13	340	10	0.04	<2	3	15
CC144597		10	<1	0.09	20	0.77	232	1	0.02	19	620	11	0.04	<2	5	24
CC144598		10	<1	0.06	20	0.65	412	1	0.02	21	580	10	0.06	<2	4	26
CC144599		10	<1	0.11	30	0.97	742	1	0.02	25	690	14	0.06	<2	5	36
CC144600		<10	1	0.05	20	0.46	164	<1	0.02	17	470	15	0.05	<2	4	23
CC144601		<10	<1	0.05	20	0.46	157	1	0.02	17	560	9	0.03	<2	4	20
CC144602		10	<1	0.05	10	0.52	225	<1	0.02	19	610	8	0.03	<2	4	26
CC144603		10	<1	0.05	10	0.47	145	<1	0.02	16	580	8	0.04	<2	3	23
CC144604		10	<1	0.05	10	0.49	141	<1	0.02	17	550	9	0.04	<2	3	22
CC144605		10	<1	0.05	10	0.51	176	<1	0.01	17	590	9	0.04	<2	3	20
CC144606		10	<1	0.08	20	0.73	382	<1	0.02	24	520	12	0.04	<2	5	26
CC144607		10	<1	0.03	10	0.15	167	1	0.01	9	240	11	0.04	<2	1	14
CC144608		10	<1	0.07	20	0.57	713	1	0.01	24	530	23	0.03	<2	5	21
CC144609		10	<1	0.05	10	0.60	459	1	0.02	26	330	9	0.03	<2	4	21
CC144610		10	<1	0.03	10	0.22	257	1	0.01	10	210	10	0.03	<2	3	11
CC144611		<10	<1	0.07	40	0.70	427	<1	0.02	25	410	13	0.03	<2	5	23
CC144612		10	<1	0.06	30	0.57	213	<1	0.02	22	570	14	0.06	<2	6	28
CC144613		10	<1	0.05	20	0.52	439	1	0.02	20	490	10	0.03	<2	5	27
CC144614		10	<1	0.05	20	0.52	256	1	0.02	20	660	10	0.03	<2	5	25
CC144615		<10	<1	0.05	10	0.55	253	<1	0.02	21	700	7	0.02	2	5	33
CC144616		10	<1	0.04	10	0.39	153	<1	0.02	14	620	6	0.03	<2	3	21
CC144617		<10	<1	0.05	10	0.54	254	<1	0.02	20	700	7	0.02	2	5	24
CC144618		<10	<1	0.06	20	0.59	310	<1	0.02	21	660	8	0.02	<2	5	27
CC144619		10	<1	0.06	20	0.51	292	<1	0.02	19	520	13	0.02	<2	5	28
CC144620		10	<1	0.06	40	0.57	823	<1	0.02	30	640	12	0.03	3	10	26
CC144621		10	1	0.07	30	0.61	583	<1	0.02	28	620	11	0.03	2	7	29
CC144622		<10	<1	0.08	50	0.66	452	<1	0.01	23	390	12	0.02	2	6	25
CC144623		10	<1	0.25	20	1.20	479	<1	0.02	29	500	10	0.03	2	11	22
CC144624		10	<1	0.18	20	0.93	358	<1	0.02	25	640	13	0.03	2	7	27
CC144625		10	<1	0.10	10	0.85	288	<1	0.02	28	430	13	0.02	2	5	23
CC144626		10	<1	0.08	10	0.72	335	<1	0.01	19	370	11	0.02	<2	4	18
CC144627		10	<1	0.18	30	1.26	385	<1	0.02	29	510	5	0.02	<2	4	24
CC144628		10	<1	0.33	40	1.18	502	<1	0.02	33	700	8	0.05	<2	6	32
CC144629		10	<1	0.19	20	1.23	439	<1	0.02	29	720	6	0.02	<2	4	23
CC144630		10	<1	0.31	20	1.21	395	<1	0.02	29	620	8	0.03	<2	6	26

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Finalized Date: 1- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138853

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144591		<20	0.12	<10	<10	64	<10	64
CC144592		<20	0.09	<10	<10	57	<10	61
CC144593		<20	0.10	<10	<10	62	<10	57
CC144594		<20	0.10	<10	<10	59	<10	56
CC144595		<20	0.11	<10	<10	55	<10	65
CC144596		<20	0.12	<10	<10	66	<10	50
CC144597		<20	0.12	<10	<10	57	<10	61
CC144598		<20	0.10	<10	<10	61	<10	60
CC144599		<20	0.11	<10	<10	63	<10	66
CC144600		<20	0.09	<10	<10	58	<10	54
CC144601		<20	0.09	<10	<10	54	<10	52
CC144602		<20	0.10	<10	<10	60	<10	55
CC144603		<20	0.08	<10	<10	55	<10	51
CC144604		<20	0.08	<10	<10	49	<10	53
CC144605		<20	0.08	<10	<10	57	<10	52
CC144606		<20	0.10	<10	<10	62	<10	63
CC144607		<20	0.07	<10	<10	51	<10	35
CC144608		<20	0.10	<10	<10	64	<10	77
CC144609		<20	0.11	<10	<10	66	<10	73
CC144610		<20	0.11	<10	<10	84	<10	36
CC144611		<20	0.11	<10	<10	60	<10	53
CC144612		<20	0.07	<10	<10	61	<10	60
CC144613		<20	0.09	<10	<10	59	<10	57
CC144614		<20	0.10	<10	<10	65	<10	57
CC144615		<20	0.10	<10	<10	62	<10	55
CC144616		<20	0.07	<10	<10	50	<10	42
CC144617		<20	0.09	<10	<10	63	<10	56
CC144618		<20	0.10	<10	<10	64	<10	55
CC144619		<20	0.10	<10	<10	53	<10	53
CC144620		<20	0.09	<10	<10	70	<10	62
CC144621		<20	0.08	<10	<10	68	<10	71
CC144622		<20	0.11	<10	<10	58	<10	64
CC144623		<20	0.12	<10	<10	87	<10	62
CC144624		<20	0.12	<10	<10	65	<10	61
CC144625		<20	0.12	<10	<10	76	<10	63
CC144626		<20	0.13	<10	<10	79	<10	49
CC144627		<20	0.15	<10	<10	66	<10	56
CC144628		<20	0.12	<10	<10	67	<10	62
CC144629		<20	0.15	<10	<10	65	<10	59
CC144630		<20	0.14	<10	<10	69	<10	61

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This copy reported on 2- AUG- 2011
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CERTIFICATE WH11138854

Project: Arcus- Dan Man- Soils 2

P.O. No.:

This report is for 130 Soil samples submitted to our lab in Whitehorse, YT, Canada on 21- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138854

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136871		0.15	0.014	<0.2	2.25	10	<10	100	0.5	<2	0.24	<0.5	12	33	12	2.76
CC136872		0.27	0.011	0.2	1.85	10	<10	150	<0.5	<2	0.28	<0.5	9	31	13	2.49
CC136873		0.26	0.025	<0.2	2.12	14	<10	170	0.5	<2	0.30	<0.5	12	36	19	2.92
CC136874		0.21	0.028	<0.2	2.13	15	<10	170	<0.5	<2	0.25	<0.5	10	36	14	2.53
CC136875		0.28	0.020	<0.2	1.87	11	<10	150	<0.5	<2	0.27	<0.5	10	32	16	2.46
CC136876		0.15	0.044	<0.2	2.06	17	<10	180	0.5	<2	0.30	<0.5	11	34	16	2.93
CC136877		0.21	0.019	<0.2	2.39	25	<10	210	0.9	<2	0.30	<0.5	17	43	23	3.58
CC136878		0.29	0.009	<0.2	1.92	15	<10	180	0.6	<2	0.27	<0.5	10	33	15	2.90
CC136879		0.30	0.015	<0.2	1.53	9	<10	120	0.5	2	0.28	<0.5	9	28	12	2.40
CC136880		0.29	0.021	<0.2	1.43	8	<10	120	0.5	<2	0.32	<0.5	8	28	11	2.25
CC136881		0.08	0.014	<0.2	2.85	14	<10	260	1.0	<2	0.28	<0.5	10	41	21	3.29
CC136882		0.16	0.005	<0.2	3.13	15	<10	200	0.7	<2	0.14	<0.5	10	43	24	3.98
CC136883		0.19	0.006	<0.2	1.76	9	<10	140	0.5	<2	0.21	<0.5	10	31	15	2.63
CC136884		0.20	0.005	<0.2	1.90	8	<10	150	0.6	<2	0.28	<0.5	10	34	14	2.69
CC136885		0.17	0.007	0.2	2.68	13	<10	250	1.0	<2	0.35	<0.5	11	40	22	3.20
CC136886		0.15	0.008	<0.2	1.20	6	<10	110	0.6	<2	0.28	<0.5	7	25	11	1.98
CC136887		0.33	0.019	<0.2	1.25	84	<10	250	1.8	<2	0.22	<0.5	8	28	14	2.46
CC136888		0.16	0.008	0.2	3.23	23	<10	230	1.0	<2	0.31	<0.5	12	51	26	4.10
CC136889		0.16	0.008	<0.2	2.22	18	<10	160	0.6	<2	0.22	<0.5	21	39	17	3.70
CC136890		0.16	0.017	0.2	2.03	14	<10	160	0.5	<2	0.18	<0.5	8	33	13	2.55
CC136891		0.26	0.019	0.2	1.98	11	<10	180	<0.5	<2	0.29	<0.5	10	33	19	2.49
CC136892		0.24	0.012	<0.2	1.81	9	<10	160	0.5	<2	0.32	<0.5	10	33	16	2.42
CC136893		0.17	0.006	0.2	1.52	8	<10	130	<0.5	<2	0.23	<0.5	10	26	13	2.11
CC136894		0.18	0.018	<0.2	1.99	8	<10	170	<0.5	<2	0.29	<0.5	9	31	18	2.52
CC136895		0.13	0.019	<0.2	1.82	11	<10	180	<0.5	<2	0.32	<0.5	9	31	17	2.59
CC136896		0.12	0.003	<0.2	1.80	8	<10	180	0.5	<2	0.29	<0.5	10	29	15	2.31
CC136897		0.27	0.009	<0.2	1.10	6	<10	110	<0.5	<2	0.27	<0.5	7	24	11	1.87
CC136898		0.17	0.002	<0.2	1.77	12	<10	180	0.5	<2	0.25	<0.5	8	29	14	2.41
CC136899		0.32	0.002	<0.2	1.29	8	<10	130	<0.5	<2	0.28	<0.5	8	26	11	2.09
CC136900		0.09	0.001	0.2	1.66	3	<10	100	<0.5	<2	0.09	<0.5	8	19	10	1.92
CC136901		0.09	0.003	<0.2	1.76	10	<10	80	<0.5	<2	0.15	<0.5	5	25	16	2.84
CC136902		0.20	0.008	<0.2	1.66	11	<10	130	<0.5	<2	0.22	<0.5	9	27	13	2.56
CC136903		0.12	0.003	<0.2	1.58	9	<10	130	<0.5	<2	0.19	<0.5	6	25	15	2.63
CC136904		0.11	0.004	<0.2	3.13	13	<10	300	1.2	<2	0.46	<0.5	11	46	25	3.61
CC136905		0.09	0.010	0.2	1.31	7	<10	80	<0.5	<2	0.18	<0.5	6	24	9	1.84
CC136906		0.08	0.001	<0.2	1.42	9	<10	120	<0.5	<2	0.22	<0.5	6	24	10	1.97
CC136907		0.10	0.007	<0.2	1.16	7	<10	80	<0.5	<2	0.15	<0.5	5	21	8	1.60
CC136908		0.05	0.004	<0.2	1.14	6	<10	90	<0.5	<2	0.20	<0.5	5	21	9	1.64
CC136909		0.07	0.012	<0.2	1.23	7	<10	90	<0.5	<2	0.18	<0.5	5	22	10	1.72
CC136910		0.06	0.027	0.2	2.49	13	<10	230	0.8	<2	0.27	<0.5	11	31	16	2.94

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North Vancouver BC V7H 0A7
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Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138854

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136871		<10	<1	0.04	10	0.49	312	<1	0.02	19	630	5	0.03	<2	3	18
CC136872		10	<1	0.04	10	0.48	261	<1	0.02	17	670	7	0.03	3	3	22
CC136873		10	<1	0.05	10	0.52	454	<1	0.02	19	710	8	0.04	<2	4	24
CC136874		10	1	0.05	10	0.47	355	<1	0.02	17	780	8	0.05	2	4	23
CC136875		<10	<1	0.04	10	0.49	302	<1	0.02	17	620	8	0.03	2	4	22
CC136876		10	<1	0.05	10	0.48	510	<1	0.02	18	610	11	0.04	4	4	24
CC136877		10	<1	0.07	10	0.51	846	1	0.02	24	480	14	0.03	<2	4	29
CC136878		10	<1	0.05	10	0.44	351	<1	0.02	18	410	10	0.03	<2	3	26
CC136879		<10	<1	0.04	10	0.46	324	<1	0.02	15	450	6	0.02	3	3	22
CC136880		<10	<1	0.05	10	0.39	228	<1	0.02	16	480	13	0.02	<2	3	24
CC136881		10	1	0.07	20	0.48	308	<1	0.02	21	560	12	0.04	4	5	31
CC136882		10	<1	0.07	10	0.63	320	1	0.02	24	270	12	0.02	2	5	19
CC136883		10	<1	0.05	10	0.45	370	<1	0.02	17	420	6	0.03	2	3	18
CC136884		10	<1	0.05	10	0.44	388	<1	0.02	16	390	8	0.02	<2	4	24
CC136885		10	1	0.07	20	0.51	389	<1	0.02	21	640	10	0.05	<2	5	31
CC136886		<10	<1	0.04	20	0.37	250	<1	0.02	12	380	7	0.02	<2	3	21
CC136887		<10	<1	0.08	30	0.35	972	1	0.01	18	370	22	0.02	12	4	23
CC136888		10	1	0.10	20	0.58	463	1	0.02	26	480	16	0.03	2	5	31
CC136889		10	<1	0.07	10	0.52	1170	1	0.02	21	660	11	0.03	3	4	22
CC136890		10	1	0.05	10	0.40	203	<1	0.02	17	490	8	0.05	<2	3	20
CC136891		10	<1	0.05	10	0.50	279	<1	0.02	19	570	7	0.03	2	4	23
CC136892		10	<1	0.06	20	0.51	243	<1	0.02	18	560	7	0.02	2	4	26
CC136893		<10	<1	0.04	10	0.36	347	<1	0.02	13	550	7	0.04	2	3	20
CC136894		10	<1	0.05	20	0.48	174	<1	0.02	18	540	7	0.03	2	4	24
CC136895		10	<1	0.05	20	0.46	222	<1	0.02	16	650	6	0.03	2	4	27
CC136896		10	<1	0.05	20	0.43	380	<1	0.02	16	660	8	0.05	<2	3	27
CC136897		<10	<1	0.04	20	0.32	296	<1	0.02	12	360	7	0.02	2	3	21
CC136898		<10	<1	0.06	20	0.35	286	1	<0.01	18	380	6	0.01	<2	3	21
CC136899		<10	<1	0.04	10	0.37	283	<1	0.02	14	390	6	0.02	2	3	22
CC136900		10	1	0.04	10	0.23	211	1	0.02	10	230	7	0.03	<2	2	13
CC136901		10	<1	0.05	10	0.25	143	<1	0.02	10	280	12	0.03	<2	3	16
CC136902		10	<1	0.06	10	0.38	322	<1	0.02	15	410	8	0.02	<2	3	19
CC136903		10	<1	0.07	10	0.32	182	<1	0.02	12	330	7	0.03	<2	3	20
CC136904		10	<1	0.08	30	0.59	453	1	0.02	24	680	12	0.05	3	6	41
CC136905		10	<1	0.05	10	0.33	149	<1	0.02	11	440	9	0.04	2	2	17
CC136906		<10	<1	0.05	10	0.33	202	<1	0.02	11	570	9	0.05	<2	2	21
CC136907		<10	<1	0.04	10	0.28	85	<1	0.02	10	410	8	0.05	<2	2	15
CC136908		<10	<1	0.04	10	0.28	100	<1	0.02	10	530	9	0.06	<2	2	18
CC136909		10	<1	0.05	10	0.29	154	<1	0.02	11	570	9	0.05	<2	2	17
CC136910		10	1	0.06	30	0.34	515	1	0.02	17	910	14	0.08	<2	5	30

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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VANCOUVER BC V6B 1L8

Finalized Date: 1- AUG- 2011
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Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138854

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC136871		<20	0.10	<10	<10	61	<10	49
CC136872		<20	0.08	<10	<10	59	<10	53
CC136873		<20	0.09	<10	<10	67	<10	60
CC136874		<20	0.08	<10	<10	55	<10	60
CC136875		<20	0.09	<10	<10	58	<10	56
CC136876		<20	0.08	<10	<10	66	<10	57
CC136877		<20	0.10	<10	<10	85	<10	66
CC136878		<20	0.09	<10	<10	69	<10	52
CC136879		<20	0.10	<10	<10	56	<10	47
CC136880		<20	0.10	<10	<10	55	<10	44
CC136881		<20	0.09	<10	<10	73	<10	60
CC136882		<20	0.12	<10	<10	97	<10	66
CC136883		<20	0.09	<10	<10	63	<10	47
CC136884		<20	0.09	<10	<10	64	<10	45
CC136885		<20	0.08	<10	<10	71	<10	57
CC136886		<20	0.09	<10	<10	48	<10	37
CC136887		20	0.07	<10	10	48	30	41
CC136888		<20	0.11	<10	<10	91	<10	76
CC136889		<20	0.11	<10	<10	91	<10	69
CC136890		<20	0.08	<10	<10	59	<10	48
CC136891		<20	0.09	<10	<10	58	<10	55
CC136892		<20	0.10	<10	<10	55	<10	52
CC136893		<20	0.08	<10	<10	50	<10	44
CC136894		<20	0.09	<10	<10	57	<10	54
CC136895		<20	0.09	<10	<10	61	<10	52
CC136896		<20	0.07	<10	<10	52	<10	51
CC136897		<20	0.09	<10	<10	44	<10	35
CC136898		<20	0.09	<10	<10	56	<10	36
CC136899		<20	0.09	<10	<10	52	<10	39
CC136900		<20	0.06	<10	<10	43	<10	25
CC136901		<20	0.11	<10	<10	86	<10	34
CC136902		<20	0.10	<10	<10	67	<10	45
CC136903		<20	0.10	<10	<10	80	<10	39
CC136904		<20	0.09	<10	<10	79	<10	69
CC136905		<20	0.06	<10	<10	47	<10	41
CC136906		<20	0.06	<10	<10	42	<10	39
CC136907		<20	0.05	<10	<10	32	<10	31
CC136908		<20	0.05	<10	<10	28	<10	35
CC136909		<20	0.05	<10	<10	38	<10	36
CC136910		<20	0.07	<10	<10	60	<10	52

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 1- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138854

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC136911		0.05	0.031	0.4	2.47	19	<10	230	1.1	<2	0.25	<0.5	13	40	23	3.38
CC136912		0.15	0.016	<0.2	1.84	13	<10	150	0.7	<2	0.24	<0.5	10	35	16	2.45
CC136913		0.16	0.006	0.2	1.44	6	<10	110	<0.5	<2	0.15	<0.5	5	26	11	1.77
CC136914		0.10	0.015	0.2	1.88	7	<10	190	0.5	<2	0.27	<0.5	7	28	18	2.25
CC136915		0.18	0.012	<0.2	1.93	8	<10	140	<0.5	<2	0.22	<0.5	8	31	14	2.38
CC136916		0.14	0.007	<0.2	1.69	8	<10	130	<0.5	<2	0.22	<0.5	9	28	12	2.39
CC136917		0.20	0.010	0.2	1.78	10	<10	120	0.8	<2	0.17	<0.5	10	28	12	2.26
CC136918		0.20	0.006	0.2	2.71	7	<10	240	0.6	<2	0.34	<0.5	10	42	23	2.99
CC136919		0.25	0.005	<0.2	1.50	8	<10	120	0.5	<2	0.29	<0.5	7	29	12	2.07
CC136920		0.19	0.010	<0.2	1.01	6	<10	110	0.5	<2	0.22	<0.5	6	22	12	1.57
CC136921		0.12	<0.001	0.2	2.76	11	<10	130	<0.5	<2	0.15	<0.5	9	35	19	3.35
CC136922		0.14	0.002	<0.2	2.63	11	<10	310	0.7	<2	0.56	<0.5	10	40	29	3.05
CC136923		0.17	0.003	<0.2	2.21	8	<10	220	<0.5	<2	0.35	<0.5	9	33	15	3.14
CC136924		0.23	0.003	<0.2	2.11	13	<10	170	<0.5	<2	0.31	<0.5	8	33	18	2.84
CC136925		0.19	0.003	<0.2	2.11	10	<10	200	<0.5	<2	0.34	<0.5	9	32	17	2.82
CC136926		0.22	0.006	<0.2	2.00	12	<10	160	<0.5	<2	0.26	<0.5	9	31	14	2.98
CC136927		0.15	0.011	0.2	1.38	6	<10	100	<0.5	<2	0.19	<0.5	7	23	9	1.83
CC136928		0.11	0.005	0.2	1.41	8	<10	80	<0.5	<2	0.20	<0.5	6	23	10	1.78
CC136929		0.11	0.004	<0.2	1.10	4	<10	60	<0.5	<2	0.21	<0.5	4	19	7	1.39
CC136930		0.11	0.008	<0.2	1.24	6	<10	70	<0.5	<2	0.18	<0.5	5	21	8	1.81
CC136931		0.06	0.009	<0.2	1.30	6	<10	80	<0.5	<2	0.20	<0.5	6	22	9	1.74
CC136932		0.05	<0.001	<0.2	1.43	7	<10	80	<0.5	<2	0.22	<0.5	7	25	9	1.91
CC136933		0.14	<0.001	<0.2	1.52	8	<10	80	<0.5	<2	0.19	<0.5	8	28	11	2.14
CC136934		0.14	0.002	<0.2	1.75	10	<10	110	0.6	<2	0.21	<0.5	16	32	13	2.57
CC136935		0.15	0.005	<0.2	1.15	9	<10	60	0.7	<2	0.14	<0.5	9	21	11	2.04
CC136936		0.08	<0.001	<0.2	0.52	6	<10	20	<0.5	<2	0.06	<0.5	3	9	9	1.04
CC136937		0.10	0.011	<0.2	1.76	20	<10	100	0.7	<2	0.21	<0.5	8	36	11	2.61
CC136938		0.12	0.002	<0.2	1.73	12	<10	60	<0.5	<2	0.16	<0.5	8	41	10	2.52
CC136939		0.06	0.003	<0.2	1.38	7	<10	80	0.5	<2	0.14	<0.5	8	33	13	2.11
CC136940		0.07	0.005	0.2	1.79	8	<10	130	0.5	<2	0.34	<0.5	11	44	13	2.48
CC136941		0.09	0.014	0.2	1.74	12	<10	130	0.5	<2	0.25	<0.5	10	30	10	2.43
CC136942		0.15	0.004	<0.2	1.37	6	<10	120	<0.5	<2	0.30	<0.5	9	28	12	1.98
CC136943		0.17	0.006	0.2	2.18	10	<10	160	0.5	<2	0.26	<0.5	9	38	15	2.62
CC136944		0.29	0.010	<0.2	1.72	7	<10	160	0.5	<2	0.31	<0.5	8	30	14	2.34
CC136945		0.14	0.001	0.2	2.28	9	<10	220	0.5	<2	0.40	<0.5	11	32	16	2.80
CC136946		0.25	0.001	<0.2	2.13	8	<10	170	<0.5	<2	0.32	<0.5	9	34	15	2.82
CC136947		0.20	0.001	<0.2	1.86	7	<10	100	<0.5	<2	0.14	<0.5	8	24	11	2.46
CC136948		0.26	0.010	<0.2	1.29	8	<10	110	<0.5	<2	0.22	<0.5	6	19	10	1.79
CC136949		0.14	0.012	0.2	1.42	3	<10	110	<0.5	<2	0.17	<0.5	6	17	9	1.63
CC136950		0.16	0.001	<0.2	1.83	10	<10	180	0.5	<2	0.40	<0.5	9	28	15	2.42

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138854

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136911		10	<1	0.06	20	0.36	752	1	0.02	21	1260	13	0.13	<2	4	27
CC136912		<10	<1	0.10	20	0.49	378	<1	0.02	17	510	8	0.04	<2	4	23
CC136913		10	<1	0.04	10	0.29	103	<1	0.02	11	290	7	0.04	<2	2	19
CC136914		10	<1	0.05	20	0.39	150	<1	0.02	15	790	7	0.07	2	2	27
CC136915		10	<1	0.05	10	0.45	210	<1	0.02	15	500	7	0.04	<2	3	21
CC136916		10	<1	0.07	20	0.42	264	<1	0.02	14	530	6	0.04	<2	3	20
CC136917		<10	<1	0.20	50	0.50	334	1	0.02	14	420	7	0.03	<2	4	17
CC136918		10	1	0.07	20	0.51	285	<1	0.02	23	350	9	0.03	<2	5	32
CC136919		<10	<1	0.07	20	0.41	225	<1	0.02	14	350	6	0.02	<2	4	21
CC136920		<10	<1	0.06	20	0.27	205	<1	0.01	14	350	8	<0.01	<2	3	19
CC136921		10	<1	0.06	10	0.42	211	1	0.02	21	290	12	0.04	<2	4	17
CC136922		10	<1	0.07	30	0.49	355	<1	0.03	24	590	9	0.05	2	6	45
CC136923		10	<1	0.07	10	0.51	286	<1	0.02	21	510	9	0.03	<2	4	29
CC136924		10	1	0.06	20	0.50	279	<1	0.02	18	450	9	0.04	<2	4	25
CC136925		10	<1	0.06	20	0.46	351	1	0.02	18	380	8	0.03	<2	4	29
CC136926		10	<1	0.06	10	0.44	380	1	0.02	16	450	8	0.03	<2	3	23
CC136927		<10	<1	0.04	10	0.33	148	<1	0.02	11	460	9	0.04	<2	2	18
CC136928		<10	<1	0.03	10	0.36	119	<1	0.01	12	490	11	0.03	<2	2	19
CC136929		<10	1	0.03	10	0.30	90	<1	0.01	10	420	11	0.03	<2	2	18
CC136930		<10	1	0.03	10	0.34	100	<1	0.01	11	440	11	0.03	<2	2	16
CC136931		<10	1	0.03	10	0.34	121	<1	0.01	12	510	10	0.03	2	2	18
CC136932		<10	1	0.04	10	0.39	182	<1	0.01	13	490	12	0.03	<2	2	19
CC136933		<10	1	0.03	10	0.43	135	<1	0.01	15	450	10	0.02	<2	3	17
CC136934		10	<1	0.05	20	0.48	626	<1	0.01	17	510	14	0.03	<2	3	18
CC136935		<10	1	0.04	20	0.30	588	<1	0.01	12	390	13	0.02	2	2	13
CC136936		<10	1	0.01	<10	0.06	67	<1	0.01	5	300	4	0.03	<2	1	8
CC136937		10	1	0.07	20	0.56	227	1	0.01	17	540	13	0.03	<2	4	18
CC136938		10	<1	0.05	10	0.65	212	<1	0.01	17	270	11	0.02	2	4	15
CC136939		<10	1	0.04	10	0.50	204	<1	0.01	15	520	8	0.04	2	3	16
CC136940		10	1	0.08	10	0.75	335	<1	0.01	21	560	10	0.04	<2	4	22
CC136941		10	<1	0.04	20	0.49	382	<1	0.01	15	530	10	0.03	<2	4	20
CC136942		<10	1	0.03	20	0.39	305	<1	0.01	14	390	9	0.01	<2	3	23
CC136943		10	1	0.05	20	0.46	246	<1	0.01	21	380	9	0.02	2	4	22
CC136944		10	1	0.04	20	0.43	275	<1	0.01	15	330	10	0.01	<2	4	25
CC136945		10	1	0.05	20	0.45	377	<1	0.01	18	450	11	0.02	<2	4	34
CC136946		10	1	0.05	10	0.51	280	<1	0.01	20	370	7	0.01	2	4	25
CC136947		10	<1	0.06	10	0.31	192	1	0.01	14	290	10	0.01	2	3	15
CC136948		10	<1	0.03	10	0.29	197	<1	0.01	10	240	6	0.01	<2	2	18
CC136949		<10	1	0.04	10	0.23	201	<1	0.02	10	230	6	0.01	<2	2	15
CC136950		10	1	0.04	20	0.46	297	<1	0.01	17	450	8	0.02	<2	4	31

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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11138854

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC136911		<20	0.06	<10	10	77	<10	54
CC136912		<20	0.08	<10	<10	58	<10	48
CC136913		<20	0.08	<10	<10	44	<10	31
CC136914		<20	0.06	<10	<10	44	<10	47
CC136915		<20	0.08	<10	<10	58	<10	50
CC136916		<20	0.08	<10	<10	56	<10	45
CC136917		<20	0.09	<10	<10	46	<10	39
CC136918		<20	0.10	<10	<10	68	<10	53
CC136919		<20	0.09	<10	<10	47	<10	39
CC136920		<20	0.07	<10	<10	33	<10	29
CC136921		<20	0.11	<10	<10	100	<10	59
CC136922		<20	0.09	<10	<10	68	<10	62
CC136923		<20	0.11	<10	<10	76	<10	54
CC136924		<20	0.10	<10	<10	68	<10	58
CC136925		<20	0.09	<10	<10	70	<10	54
CC136926		<20	0.09	<10	<10	68	<10	51
CC136927		<20	0.06	<10	<10	42	<10	42
CC136928		<20	0.07	<10	<10	39	<10	43
CC136929		<20	0.06	<10	<10	29	<10	35
CC136930		<20	0.06	<10	<10	43	<10	37
CC136931		<20	0.06	<10	<10	36	<10	44
CC136932		<20	0.06	<10	<10	40	<10	46
CC136933		<20	0.07	<10	<10	49	<10	45
CC136934		<20	0.08	<10	<10	58	<10	56
CC136935		<20	0.07	<10	<10	46	<10	47
CC136936		<20	0.04	<10	<10	31	<10	17
CC136937		<20	0.07	<10	10	65	<10	52
CC136938		<20	0.10	<10	<10	68	<10	44
CC136939		<20	0.07	<10	<10	52	<10	36
CC136940		<20	0.10	<10	<10	60	<10	54
CC136941		<20	0.08	<10	<10	58	<10	51
CC136942		<20	0.08	<10	10	45	<10	47
CC136943		<20	0.09	<10	<10	59	<10	48
CC136944		<20	0.09	<10	<10	56	<10	43
CC136945		<20	0.09	<10	<10	65	<10	50
CC136946		<20	0.10	<10	<10	67	<10	54
CC136947		<20	0.10	<10	<10	65	<10	43
CC136948		<20	0.08	<10	<10	43	<10	33
CC136949		<20	0.06	<10	<10	36	<10	35
CC136950		<20	0.09	<10	<10	53	<10	51

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC136951		0.15	0.001	0.2	2.56	8	<10	120	<0.5	<2	0.15	<0.5	7	34	22	3.40
CC136952		0.19	0.006	<0.2	1.56	8	<10	120	0.5	<2	0.21	<0.5	7	26	21	1.93
CC136953		0.17	0.005	<0.2	1.63	8	<10	100	0.5	<2	0.23	<0.5	7	27	11	2.27
CC136954		0.12	0.011	<0.2	1.45	6	<10	90	<0.5	<2	0.20	<0.5	6	24	10	1.88
CC136955		0.12	<0.001	<0.2	1.41	9	<10	80	<0.5	<2	0.20	<0.5	7	24	9	1.92
CC136956		0.10	<0.001	<0.2	1.35	7	<10	100	<0.5	<2	0.21	<0.5	7	23	10	1.93
CC136957		0.19	0.002	<0.2	1.58	9	<10	110	<0.5	<2	0.25	<0.5	7	29	11	2.12
CC136958		0.21	<0.001	0.2	1.94	12	<10	130	0.7	<2	0.24	<0.5	13	37	17	2.79
CC136959		0.11	0.005	<0.2	1.69	21	<10	140	0.9	<2	0.28	0.5	9	28	15	2.33
CC136960		0.17	0.004	<0.2	2.05	20	<10	70	0.5	<2	0.14	<0.5	9	29	12	3.22
CC136961		0.24	0.013	<0.2	1.05	15	<10	70	1.3	<2	0.19	<0.5	6	18	9	1.62
CC136962		0.15	0.005	<0.2	1.15	9	<10	40	<0.5	<2	0.14	<0.5	7	23	10	1.85
CC136963		0.08	0.006	<0.2	0.83	7	<10	40	<0.5	<2	0.09	<0.5	4	16	7	1.92
CC136964		0.32	0.022	0.2	2.22	16	<10	140	0.6	<2	0.22	<0.5	17	36	15	3.15
CC136965		0.14	0.005	<0.2	1.89	12	<10	60	<0.5	<2	0.10	<0.5	12	30	9	3.38
CC136966		0.25	0.008	<0.2	1.64	9	<10	80	0.6	<2	0.14	<0.5	10	36	11	2.28
CC136967		0.37	0.008	<0.2	1.87	7	<10	90	1.1	<2	0.17	<0.5	12	54	15	2.39
CC136968		0.29	0.007	0.2	1.32	8	<10	110	0.6	<2	0.29	<0.5	8	28	14	1.96
CC136969		0.14	0.001	<0.2	1.78	8	<10	120	<0.5	<2	0.20	<0.5	7	25	13	2.09
CC136970		0.12	0.005	0.2	1.87	7	<10	100	<0.5	<2	0.09	<0.5	7	22	17	2.26
CC136971		0.30	0.003	<0.2	1.18	6	<10	80	<0.5	<2	0.24	<0.5	6	21	9	1.79
CC136972		0.20	0.002	0.2	2.36	9	<10	140	<0.5	<2	0.15	<0.5	9	31	19	2.93
CC136973		0.21	<0.001	<0.2	1.60	7	<10	120	<0.5	<2	0.26	<0.5	8	26	11	2.31
CC136974		0.14	0.002	<0.2	1.02	4	<10	90	<0.5	<2	0.19	<0.5	5	16	9	1.38
CC136975		0.12	0.001	0.2	0.78	<2	<10	80	<0.5	<2	0.14	<0.5	4	12	14	0.98
CC136976		0.40	0.002	<0.2	1.14	7	<10	100	<0.5	<2	0.28	<0.5	7	24	11	1.96
CC136977		0.18	0.005	<0.2	1.26	8	<10	60	<0.5	<2	0.19	<0.5	12	22	8	2.04
CC136978		0.07	0.005	<0.2	1.30	6	<10	100	<0.5	<2	0.18	<0.5	6	22	9	1.69
CC136979		0.04	0.007	<0.2	1.37	9	<10	90	<0.5	<2	0.20	<0.5	7	23	9	2.16
CC136980		0.11	0.003	<0.2	1.65	8	<10	100	<0.5	<2	0.29	<0.5	10	31	12	2.27
CC136981		0.16	0.001	<0.2	1.08	4	<10	60	<0.5	<2	0.18	<0.5	7	22	8	1.58
CC136982		0.12	0.005	<0.2	1.71	8	<10	100	<0.5	<2	0.38	<0.5	15	41	13	2.62
CC136983		0.17	0.002	<0.2	1.67	10	<10	70	0.5	<2	0.37	<0.5	15	43	11	2.68
CC136984		0.23	0.005	<0.2	1.39	7	<10	40	<0.5	<2	0.19	<0.5	9	37	12	2.33
CC136985		0.19	0.007	<0.2	1.89	18	<10	120	0.9	<2	0.52	<0.5	14	62	12	3.15
CC136986		0.16	0.003	<0.2	1.79	13	<10	70	1.1	<2	0.19	<0.5	12	44	17	2.89
CC136987		0.18	0.025	<0.2	1.80	11	<10	70	<0.5	<2	0.20	<0.5	14	43	14	2.99
CC136988		0.21	0.002	<0.2	2.69	16	<10	190	0.7	<2	0.19	0.6	14	49	16	3.52
CC136989		0.15	0.007	<0.2	2.03	20	<10	100	1.1	<2	0.24	<0.5	11	36	16	2.80
CC136990		0.28	0.003	<0.2	1.68	12	<10	110	0.6	<2	0.25	<0.5	14	35	17	2.56

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North Vancouver BC V7H 0A7
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Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138854

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136951		10	1	0.07	10	0.37	168	1	0.01	18	340	12	0.02	<2	4	19
CC136952		10	1	0.04	10	0.36	150	<1	0.01	21	590	13	0.05	<2	3	22
CC136953		<10	1	0.04	10	0.39	230	<1	0.01	13	570	17	0.03	2	3	21
CC136954		10	<1	0.03	10	0.39	121	<1	0.01	12	460	15	0.03	<2	2	19
CC136955		<10	1	0.03	10	0.39	191	<1	0.01	12	480	12	0.02	<2	2	18
CC136956		<10	1	0.03	10	0.34	223	<1	0.01	12	590	9	0.04	2	2	19
CC136957		<10	1	0.04	10	0.47	165	<1	0.01	16	540	9	0.03	<2	3	20
CC136958		10	1	0.05	20	0.54	539	<1	0.01	18	600	13	0.03	2	4	22
CC136959		10	1	0.07	30	0.42	301	<1	0.01	16	440	19	0.03	<2	4	25
CC136960		10	<1	0.03	10	0.37	311	<1	0.01	16	340	14	0.02	2	3	13
CC136961		<10	1	0.03	40	0.26	267	<1	0.01	11	320	12	0.01	<2	2	14
CC136962		<10	1	0.05	20	0.33	212	1	0.01	11	410	4	0.02	<2	2	12
CC136963		10	<1	0.01	10	0.14	97	<1	0.01	6	360	6	0.03	2	1	11
CC136964		10	1	0.04	10	0.54	598	1	0.01	19	350	9	0.01	<2	4	20
CC136965		10	1	0.03	10	0.39	369	1	0.01	13	330	9	0.01	<2	3	12
CC136966		10	<1	0.23	30	0.76	353	<1	0.01	17	290	8	0.01	<2	3	12
CC136967		10	1	0.40	40	1.08	344	1	<0.01	24	230	6	<0.01	<2	5	14
CC136968		<10	1	0.06	20	0.39	226	<1	0.01	15	380	7	0.01	2	4	23
CC136969		10	1	0.03	20	0.31	137	<1	0.01	14	270	7	0.02	<2	3	20
CC136970		10	1	0.03	10	0.23	193	1	0.02	15	280	11	0.01	<2	3	10
CC136971		<10	1	0.02	10	0.31	184	<1	0.01	11	340	6	<0.01	<2	2	18
CC136972		10	1	0.05	10	0.38	257	<1	0.01	18	390	10	0.02	<2	3	14
CC136973		10	1	0.03	10	0.39	288	<1	0.01	15	340	7	0.01	<2	3	21
CC136974		<10	1	0.03	10	0.19	177	<1	0.02	9	280	5	0.01	2	2	16
CC136975		<10	1	0.02	10	0.12	69	<1	0.02	6	240	6	0.01	<2	1	13
CC136976		<10	1	0.03	20	0.36	250	<1	0.01	13	290	6	<0.01	<2	3	20
CC136977		<10	<1	0.03	10	0.35	537	<1	0.01	12	420	10	0.01	2	2	16
CC136978		<10	<1	0.02	10	0.31	115	<1	0.01	11	410	14	0.03	<2	2	19
CC136979		<10	<1	0.03	10	0.37	210	<1	0.01	12	500	13	0.03	<2	2	17
CC136980		<10	1	0.05	20	0.58	315	<1	0.02	15	520	10	0.03	<2	4	22
CC136981		10	<1	0.03	10	0.33	176	<1	0.01	10	280	10	0.02	<2	2	15
CC136982		10	1	0.07	20	0.77	694	1	0.02	19	540	13	0.02	<2	4	23
CC136983		<10	1	0.14	10	0.95	648	<1	0.01	21	590	10	0.01	<2	3	22
CC136984		10	1	0.04	10	0.68	274	<1	0.01	18	370	11	0.01	<2	2	13
CC136985		10	1	0.20	20	0.87	353	<1	0.02	26	600	8	0.01	2	9	28
CC136986		10	1	0.06	20	0.60	363	<1	0.01	24	290	13	0.01	2	5	19
CC136987		10	1	0.04	10	0.70	572	<1	0.01	22	380	9	0.01	<2	3	15
CC136988		10	1	0.04	10	0.68	369	<1	0.01	29	210	10	0.01	<2	5	19
CC136989		10	1	0.05	20	0.51	435	<1	0.01	22	390	13	0.01	<2	4	18
CC136990		<10	<1	0.05	10	0.52	631	<1	0.01	18	530	9	0.02	2	3	20

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North Vancouver BC V7H 0A7
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Finalized Date: 1- AUG- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138854

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC136951		<20	0.10	<10	<10	79	<10	50
CC136952		<20	0.07	<10	<10	44	<10	51
CC136953		<20	0.07	<10	<10	51	<10	49
CC136954		<20	0.07	<10	<10	43	<10	44
CC136955		<20	0.07	<10	<10	46	<10	43
CC136956		<20	0.06	<10	<10	40	<10	41
CC136957		<20	0.07	<10	<10	46	<10	48
CC136958		<20	0.08	<10	<10	61	<10	63
CC136959		<20	0.07	<10	<10	49	<10	77
CC136960		<20	0.10	<10	<10	69	<10	48
CC136961		20	0.06	<10	<10	35	<10	42
CC136962		<20	0.07	<10	<10	40	<10	32
CC136963		<20	0.09	<10	<10	72	<10	21
CC136964		<20	0.11	<10	<10	72	<10	57
CC136965		<20	0.12	<10	<10	87	<10	40
CC136966		<20	0.09	<10	<10	46	<10	41
CC136967		20	0.11	<10	<10	47	<10	42
CC136968		<20	0.09	<10	10	43	<10	44
CC136969		<20	0.08	<10	<10	46	<10	34
CC136970		<20	0.08	<10	<10	48	<10	43
CC136971		<20	0.08	<10	<10	44	<10	33
CC136972		<20	0.09	<10	<10	65	<10	52
CC136973		<20	0.09	<10	<10	56	<10	43
CC136974		<20	0.05	<10	<10	35	<10	29
CC136975		<20	0.04	<10	<10	23	<10	16
CC136976		<20	0.09	<10	<10	46	<10	38
CC136977		<20	0.07	<10	<10	57	<10	41
CC136978		<20	0.06	<10	<10	41	<10	37
CC136979		<20	0.07	<10	<10	51	<10	43
CC136980		<20	0.09	<10	<10	48	<10	51
CC136981		<20	0.09	<10	<10	45	<10	32
CC136982		<20	0.11	<10	<10	64	<10	57
CC136983		<20	0.13	<10	<10	59	<10	58
CC136984		<20	0.11	<10	<10	56	<10	35
CC136985		<20	0.08	<10	<10	70	<10	53
CC136986		<20	0.11	<10	<10	64	<10	59
CC136987		<20	0.12	<10	<10	68	<10	48
CC136988		<20	0.11	<10	<10	85	<10	80
CC136989		<20	0.11	<10	<10	64	<10	68
CC136990		<20	0.08	<10	<10	55	<10	53

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CERTIFICATE OF ANALYSIS WH11138854

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC136991		0.19	0.002	0.2	1.99	10	<10	110	0.8	<2	0.22	<0.5	12	39	17	2.87
CC136992		0.20	0.003	<0.2	2.01	8	<10	140	0.5	<2	0.23	<0.5	12	37	15	2.94
CC136993		0.11	0.017	<0.2	1.77	6	<10	140	<0.5	<2	0.26	<0.5	11	30	13	2.44
CC136994		0.22	0.006	<0.2	1.84	12	<10	110	<0.5	<2	0.27	<0.5	9	30	13	2.79
CC136995		0.19	0.008	<0.2	1.71	8	<10	110	<0.5	<2	0.30	<0.5	11	29	13	2.48
CC136996		0.29	0.017	<0.2	1.59	8	<10	120	1.4	<2	0.33	<0.5	11	45	19	2.62
CC136997		0.17	0.023	<0.2	1.71	17	<10	120	0.6	<2	0.24	<0.5	9	29	13	2.47
CC136998		0.28	0.006	0.2	1.74	13	<10	100	<0.5	<2	0.29	<0.5	11	30	14	2.46
CC136999		0.33	0.007	<0.2	1.82	10	<10	170	0.5	<2	0.38	<0.5	10	32	23	2.60
CC137000		0.27	0.006	<0.2	1.76	8	<10	170	<0.5	<2	0.31	<0.5	9	30	21	2.67

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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC136991		10	1	0.08	20	0.61	322	<1	0.01	19	460	13	0.01	<2	4	18
CC136992		10	1	0.05	20	0.57	372	<1	0.01	20	620	12	0.03	<2	4	21
CC136993		10	<1	0.04	10	0.48	405	<1	0.01	16	530	11	0.02	<2	3	21
CC136994		10	<1	0.04	10	0.50	180	<1	0.01	17	560	10	0.02	<2	3	20
CC136995		<10	1	0.04	10	0.50	344	<1	0.01	17	600	11	0.01	<2	3	20
CC136996		<10	1	0.27	20	0.74	358	<1	0.02	25	530	15	0.01	<2	6	23
CC136997		<10	1	0.04	20	0.38	216	<1	0.02	15	530	15	0.03	2	3	18
CC136998		10	1	0.04	10	0.49	300	<1	0.01	17	560	12	0.02	<2	3	20
CC136999		<10	<1	0.04	20	0.54	252	<1	0.02	20	590	9	0.01	<2	5	27
CC137000		<10	<1	0.05	10	0.50	219	1	0.02	19	560	9	0.04	<2	4	26

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC136991		<20	0.09	<10	<10	58	<10	53
CC136992		<20	0.08	<10	<10	61	<10	57
CC136993		<20	0.07	<10	<10	57	<10	52
CC136994		<20	0.09	<10	<10	65	<10	55
CC136995		<20	0.10	<10	<10	57	<10	57
CC136996		<20	0.10	<10	<10	56	<10	53
CC136997		<20	0.08	<10	<10	68	<10	47
CC136998		<20	0.09	<10	<10	59	<10	52
CC136999		<20	0.11	<10	<10	60	<10	54
CC137000		<20	0.09	<10	<10	56	<10	53

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CERTIFICATE WH11138855

Project: Arcus- Dan Man- Soils 2

P.O. No.:

This report is for 100 Soil samples submitted to our lab in Whitehorse, YT, Canada on 21- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138855

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC136501		0.17	0.006	<0.2	1.97	16	<10	90	1.0	<2	0.11	<0.5	8	63	16	2.67
CC136502		0.18	0.005	<0.2	2.05	11	<10	150	0.8	<2	0.40	<0.5	14	80	13	3.17
CC136503		0.13	0.008	<0.2	1.56	8	<10	160	0.6	<2	0.52	<0.5	8	36	16	2.60
CC136504		0.20	0.008	<0.2	1.54	8	<10	130	<0.5	<2	0.48	<0.5	10	32	13	2.28
CC136505		0.15	0.005	0.2	1.60	8	<10	160	0.6	<2	0.35	<0.5	13	34	14	2.37
CC136506		0.15	0.004	<0.2	1.52	9	<10	100	<0.5	<2	0.39	<0.5	15	43	11	2.53
CC136507		0.17	0.002	<0.2	1.53	7	<10	80	<0.5	<2	0.17	<0.5	9	37	13	2.39
CC136508		0.20	0.016	0.3	1.87	6	<10	100	0.7	<2	0.25	<0.5	13	49	17	2.85
CC136509		0.06	0.012	<0.2	2.07	12	<10	200	0.7	<2	0.32	<0.5	8	35	15	2.64
CC136510		0.31	0.009	<0.2	1.89	7	<10	140	1.0	<2	0.39	<0.5	13	57	17	2.58
CC136511		0.19	0.003	0.2	1.70	8	<10	150	<0.5	<2	0.33	<0.5	7	28	15	2.28
CC136512		0.26	0.011	<0.2	1.94	8	<10	150	<0.5	<2	0.31	<0.5	9	29	12	2.53
CC136513		0.28	0.003	<0.2	1.72	7	<10	150	<0.5	<2	0.29	<0.5	7	26	11	2.34
CC136514		0.10	<0.001	<0.2	1.13	6	<10	90	<0.5	<2	0.09	<0.5	6	17	12	1.87
CC136515		0.26	0.005	<0.2	1.42	6	<10	130	<0.5	<2	0.27	<0.5	8	24	13	2.28
CC136516		0.18	0.002	<0.2	0.54	2	<10	30	<0.5	<2	0.06	<0.5	3	10	9	1.10
CC136517		0.14	0.008	<0.2	1.67	8	<10	140	0.6	<2	0.21	<0.5	9	27	15	2.25
CC136518		0.21	0.004	<0.2	1.23	6	<10	130	<0.5	<2	0.20	<0.5	12	21	10	1.91
CC136519		0.25	0.003	<0.2	1.52	9	<10	120	<0.5	<2	0.20	<0.5	22	25	10	2.55
CC136520		0.16	0.006	<0.2	1.61	9	<10	130	<0.5	<2	0.19	<0.5	11	30	10	2.38
CC136521		0.09	0.002	<0.2	1.71	9	<10	120	0.5	<2	0.24	<0.5	10	33	12	2.54
CC136522		0.21	0.005	<0.2	1.60	18	<10	120	0.8	<2	0.25	<0.5	13	33	14	2.73
CC136523		0.16	0.003	<0.2	1.69	12	<10	70	<0.5	<2	0.09	<0.5	6	23	10	2.28
CC136524		0.18	0.015	<0.2	1.70	16	<10	90	0.7	<2	0.13	<0.5	8	27	13	2.43
CC136525		0.27	0.004	<0.2	1.65	15	<10	120	1.6	2	0.21	<0.5	9	38	21	2.53
CC136526		0.17	0.002	<0.2	1.90	19	<10	190	1.9	2	0.53	<0.5	14	62	27	3.28
CC136527		0.24	0.012	<0.2	1.74	14	<10	150	1.1	<2	0.46	<0.5	13	36	17	2.69
CC136528		0.25	0.010	<0.2	2.04	11	<10	100	0.6	<2	0.25	<0.5	12	58	12	2.90
CC136529		0.30	0.009	<0.2	1.78	8	<10	160	0.8	<2	0.51	<0.5	13	53	17	3.03
CC136530		0.10	0.002	<0.2	1.73	6	<10	140	<0.5	<2	0.40	<0.5	12	40	12	2.27
CC136531		0.10	<0.001	<0.2	1.66	9	<10	110	<0.5	<2	0.30	<0.5	10	36	12	2.52
CC136532		0.25	0.003	<0.2	1.54	6	<10	120	<0.5	<2	0.35	<0.5	10	31	12	2.19
CC136533		0.11	0.003	<0.2	1.52	6	<10	100	<0.5	<2	0.28	<0.5	7	29	10	2.13
CC136534		0.19	0.001	<0.2	1.37	5	<10	50	<0.5	<2	0.21	<0.5	8	43	8	2.06
CC136535		0.35	0.003	<0.2	1.64	8	<10	130	0.7	<2	0.32	<0.5	10	36	14	2.38
CC136536		0.22	0.001	<0.2	1.60	6	<10	130	0.6	<2	0.33	<0.5	7	34	13	2.26
CC136537		0.28	0.005	<0.2	2.02	9	<10	200	<0.5	<2	0.33	<0.5	7	31	16	2.64
CC136538		0.11	0.003	<0.2	2.50	7	<10	290	0.6	<2	0.35	<0.5	11	35	23	3.06
CC136539		0.25	0.003	<0.2	2.03	6	<10	130	0.7	<2	0.62	<0.5	15	54	17	3.20
CC136540		0.12	0.003	<0.2	1.95	2	<10	120	<0.5	<2	0.22	<0.5	9	35	10	3.00

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 28- JUL- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138855

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136501		10	<1	0.06	20	0.57	193	<1	0.02	26	200	11	0.04	<2	6	14
CC136502		10	<1	0.15	10	1.12	446	<1	0.02	34	530	8	0.04	<2	7	24
CC136503		10	<1	0.08	20	0.60	309	1	0.02	20	330	12	0.05	<2	4	30
CC136504		<10	<1	0.07	20	0.53	446	1	0.02	17	560	12	0.07	<2	4	29
CC136505		<10	<1	0.06	30	0.58	571	1	0.02	18	590	10	0.07	<2	5	25
CC136506		10	<1	0.11	10	0.80	868	1	0.02	21	530	9	0.05	<2	3	24
CC136507		10	<1	0.05	20	0.63	185	1	0.02	19	300	7	0.06	<2	3	16
CC136508		10	<1	0.15	20	0.98	452	1	0.02	21	560	21	0.06	<2	4	19
CC136509		10	<1	0.06	40	0.51	210	1	0.02	20	470	11	0.06	<2	4	29
CC136510		10	<1	0.40	30	1.09	422	1	0.02	28	440	7	0.04	<2	4	27
CC136511		10	<1	0.06	20	0.43	221	1	0.02	16	370	8	0.05	<2	3	29
CC136512		10	<1	0.06	20	0.47	285	1	0.02	16	350	9	0.04	<2	4	26
CC136513		10	<1	0.05	10	0.40	271	1	0.02	14	320	7	0.03	2	3	25
CC136514		10	<1	0.05	10	0.19	122	1	0.02	9	380	8	0.04	<2	2	13
CC136515		10	<1	0.06	10	0.34	319	1	0.02	12	350	8	0.04	<2	3	22
CC136516		<10	<1	0.02	<10	0.07	51	1	0.02	4	160	5	0.04	<2	1	9
CC136517		10	<1	0.05	20	0.39	354	1	0.02	15	620	18	0.07	<2	3	21
CC136518		<10	<1	0.05	10	0.32	757	1	0.02	13	390	12	0.05	<2	2	20
CC136519		<10	<1	0.05	10	0.41	1560	1	0.02	14	410	12	0.04	<2	2	19
CC136520		10	<1	0.04	10	0.47	499	1	0.02	15	390	14	0.05	<2	3	19
CC136521		10	<1	0.06	10	0.51	423	<1	0.02	16	460	10	0.05	<2	3	21
CC136522		<10	<1	0.10	30	0.50	1085	1	0.02	17	420	11	0.04	<2	4	23
CC136523		10	<1	0.03	10	0.21	204	1	0.02	12	210	11	0.04	<2	2	13
CC136524		<10	<1	0.04	20	0.40	243	1	0.02	16	200	14	0.04	<2	3	13
CC136525		<10	<1	0.09	40	0.45	422	<1	0.02	28	250	15	0.03	<2	5	20
CC136526		<10	<1	0.23	40	0.82	434	1	0.02	36	550	15	0.06	<2	8	35
CC136527		<10	<1	0.10	30	0.59	413	1	0.02	22	410	40	0.04	<2	6	24
CC136528		10	<1	0.08	10	0.99	247	1	0.02	25	260	10	0.04	<2	6	21
CC136529		10	<1	0.17	10	1.00	537	1	0.02	26	470	9	0.05	<2	6	27
CC136530		10	<1	0.06	20	0.68	417	1	0.02	20	580	8	0.08	<2	4	28
CC136531		10	<1	0.05	10	0.62	342	1	0.02	16	510	9	0.07	<2	3	23
CC136532		10	<1	0.06	20	0.54	412	1	0.02	15	470	10	0.05	<2	4	24
CC136533		10	<1	0.05	10	0.49	249	1	0.02	14	470	10	0.06	<2	3	23
CC136534		10	<1	0.13	10	0.71	221	1	0.02	15	410	10	0.05	<2	3	18
CC136535		<10	<1	0.15	20	0.60	371	1	0.02	18	360	8	0.04	<2	4	25
CC136536		<10	<1	0.16	30	0.63	266	<1	0.01	18	420	6	0.01	<2	3	22
CC136537		10	1	0.07	20	0.46	257	<1	0.01	17	380	9	0.02	<2	4	27
CC136538		10	1	0.10	20	0.48	466	<1	0.01	21	500	11	0.04	<2	5	32
CC136539		10	<1	0.19	30	1.20	650	<1	0.02	29	640	8	0.04	<2	5	29
CC136540		10	<1	0.06	10	0.67	258	<1	0.01	18	280	13	0.03	<2	3	19

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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11138855

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC136501		<20	0.09	<10	10	55	<10	47
CC136502		<20	0.11	<10	<10	79	<10	55
CC136503		<20	0.11	<10	<10	66	<10	52
CC136504		<20	0.09	<10	<10	56	<10	58
CC136505		<20	0.08	<10	<10	52	<10	52
CC136506		<20	0.10	<10	<10	64	<10	61
CC136507		<20	0.09	<10	<10	58	<10	44
CC136508		<20	0.09	<10	<10	65	<10	62
CC136509		<20	0.07	<10	<10	50	<10	54
CC136510		20	0.11	<10	<10	49	<10	55
CC136511		<20	0.08	<10	<10	51	<10	51
CC136512		<20	0.10	<10	<10	57	<10	49
CC136513		<20	0.08	<10	<10	53	<10	44
CC136514		<20	0.07	<10	<10	42	<10	28
CC136515		<20	0.08	<10	<10	55	<10	41
CC136516		<20	0.05	<10	<10	36	<10	15
CC136517		<20	0.06	<10	<10	44	<10	50
CC136518		<20	0.06	<10	<10	45	<10	48
CC136519		<20	0.07	<10	<10	57	<10	52
CC136520		<20	0.07	<10	<10	62	<10	51
CC136521		<20	0.07	<10	<10	57	<10	53
CC136522		<20	0.09	<10	<10	57	<10	83
CC136523		<20	0.09	<10	<10	64	<10	36
CC136524		20	0.08	<10	<10	52	<10	49
CC136525		30	0.09	<10	<10	52	<10	53
CC136526		<20	0.08	<10	<10	63	<10	65
CC136527		<20	0.10	<10	<10	58	<10	60
CC136528		<20	0.12	<10	<10	70	<10	57
CC136529		<20	0.12	<10	<10	67	<10	64
CC136530		<20	0.09	<10	<10	44	<10	56
CC136531		<20	0.09	<10	<10	59	<10	52
CC136532		<20	0.09	<10	<10	52	<10	57
CC136533		<20	0.08	<10	<10	48	<10	51
CC136534		<20	0.09	<10	<10	54	<10	46
CC136535		<20	0.09	<10	<10	50	<10	48
CC136536		20	0.10	<10	<10	48	<10	45
CC136537		<20	0.10	<10	<10	61	<10	48
CC136538		<20	0.09	<10	<10	67	<10	57
CC136539		<20	0.13	<10	<10	70	<10	60
CC136540		<20	0.12	<10	<10	73	<10	54

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC136541		0.15	0.002	<0.2	1.79	6	<10	130	<0.5	<2	0.32	<0.5	9	40	14	2.62
CC136542		0.24	0.001	<0.2	2.06	6	<10	120	0.9	<2	0.48	<0.5	17	53	15	3.26
CC136543		0.12	0.003	0.3	1.81	2	<10	120	<0.5	<2	0.42	<0.5	10	49	15	2.54
CC136544		0.36	0.015	0.2	2.00	6	<10	150	0.8	<2	0.37	<0.5	12	47	22	2.98
CC136545		0.10	0.001	<0.2	1.61	4	<10	140	<0.5	<2	0.40	<0.5	8	31	14	2.36
CC136546		0.15	0.003	<0.2	1.69	4	<10	130	<0.5	<2	0.29	<0.5	6	35	13	2.24
CC136547		0.20	0.004	<0.2	1.80	10	<10	110	<0.5	<2	0.33	<0.5	12	38	12	2.89
CC136548		0.11	0.002	0.2	2.95	15	<10	290	1.4	<2	0.70	0.5	22	60	37	4.20
CC136549		0.28	0.003	<0.2	1.88	4	<10	170	0.6	<2	0.38	<0.5	10	38	17	2.67
CC136550		0.26	0.007	<0.2	2.30	14	<10	170	1.4	<2	0.37	<0.5	13	58	27	3.17
CC136551		0.21	0.004	<0.2	1.86	10	<10	110	0.8	<2	0.25	<0.5	12	44	17	3.14
CC136552		0.22	0.002	<0.2	1.80	4	<10	160	<0.5	<2	0.30	<0.5	11	30	14	2.56
CC136553		0.27	0.010	<0.2	1.71	5	<10	180	<0.5	<2	0.39	<0.5	7	31	13	2.50
CC136554		0.26	0.003	<0.2	1.99	6	<10	210	0.5	<2	0.41	<0.5	8	33	19	2.76
CC136555		0.29	0.003	<0.2	1.45	9	<10	160	<0.5	<2	0.32	<0.5	7	28	13	2.35
CC136556		0.17	0.005	<0.2	1.08	7	<10	90	0.7	<2	0.22	<0.5	6	22	10	1.84
CC136557		0.17	0.009	<0.2	1.66	8	<10	140	0.5	<2	0.23	<0.5	5	29	11	2.24
CC136558		0.12	0.004	<0.2	1.53	8	<10	130	<0.5	<2	0.21	<0.5	5	27	12	2.15
CC136559		0.09	0.004	<0.2	1.78	7	<10	160	<0.5	<2	0.24	<0.5	8	29	11	2.34
CC136560		0.15	0.004	<0.2	1.85	5	<10	130	0.6	<2	0.20	<0.5	6	34	12	2.49
CC136561		0.22	0.004	<0.2	1.86	8	<10	120	0.5	<2	0.24	<0.5	7	34	15	2.66
CC136562		0.27	0.003	<0.2	1.98	14	<10	130	0.9	<2	0.26	<0.5	12	42	18	3.22
CC136563		0.18	0.007	<0.2	2.51	45	<10	260	1.9	<2	0.21	<0.5	9	41	24	3.35
CC136564		0.17	0.002	<0.2	1.78	14	<10	80	<0.5	<2	0.09	<0.5	4	28	12	3.74
CC136565		0.23	0.005	<0.2	0.89	14	<10	90	1.1	<2	0.16	<0.5	4	16	8	1.46
CC136566		0.05	0.008	<0.2	2.10	15	<10	190	1.2	<2	0.40	<0.5	9	46	19	3.00
CC136567		0.26	0.010	<0.2	1.63	8	<10	120	0.8	<2	0.40	<0.5	10	37	19	2.73
CC136568		0.33	0.023	<0.2	1.55	9	<10	130	0.9	<2	0.51	<0.5	13	44	14	2.92
CC136569		0.11	0.006	<0.2	1.67	6	<10	70	<0.5	<2	0.16	<0.5	7	43	9	2.51
CC136570		0.06	0.003	<0.2	1.90	8	<10	150	0.5	<2	0.48	<0.5	12	49	14	2.73
CC136571		0.15	0.003	<0.2	1.52	10	<10	70	<0.5	<2	0.21	<0.5	16	34	8	2.45
CC136572		0.12	0.015	1.0	1.70	5	<10	90	0.5	<2	0.31	<0.5	11	37	32	2.38
CC136573		0.19	0.009	0.3	2.19	7	<10	160	0.6	<2	0.37	<0.5	14	47	16	2.68
CC136574		0.27	0.004	0.3	2.27	13	<10	220	1.3	<2	0.44	<0.5	18	81	26	3.00
CC136575		0.22	0.002	0.2	1.30	6	<10	100	<0.5	<2	0.28	<0.5	9	28	10	1.89
CC136576		0.26	0.003	<0.2	1.48	6	<10	170	<0.5	<2	0.32	<0.5	9	26	13	2.15
CC136577		0.24	0.003	0.2	1.93	8	<10	220	0.5	<2	0.33	<0.5	11	30	15	2.60
CC136578		0.18	0.022	0.3	1.90	13	<10	160	0.7	<2	0.30	<0.5	14	38	13	2.81
CC136579		0.15	0.003	0.2	1.67	7	<10	70	<0.5	<2	0.23	<0.5	10	37	12	2.36
CC136580		0.15	0.003	0.3	1.82	8	<10	90	<0.5	<2	0.21	<0.5	10	39	13	2.60

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 28- JUL- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138855

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136541		<10	1	0.06	10	0.70	251	<1	0.02	21	420	15	0.05	<2	4	23
CC136542		10	1	0.31	20	1.22	750	<1	0.01	26	910	16	0.03	<2	4	25
CC136543		10	<1	0.09	20	0.94	262	<1	0.02	21	380	17	0.04	<2	4	25
CC136544		10	<1	0.16	30	0.88	409	<1	0.01	25	610	16	0.02	<2	5	23
CC136545		<10	1	0.08	20	0.64	321	<1	0.01	16	720	11	0.04	<2	4	26
CC136546		<10	1	0.06	10	0.60	172	<1	0.01	17	360	10	0.03	<2	4	21
CC136547		10	1	0.07	10	0.65	555	<1	0.01	20	510	12	0.02	<2	4	21
CC136548		10	<1	0.16	50	0.89	1240	3	0.01	39	1020	25	0.07	<2	9	45
CC136549		10	1	0.05	20	0.60	269	<1	0.01	21	560	10	0.03	<2	4	27
CC136550		10	<1	0.10	40	0.77	182	<1	0.01	33	530	13	0.02	<2	8	24
CC136551		10	<1	0.06	20	0.64	533	<1	0.01	24	480	13	0.02	<2	4	18
CC136552		<10	<1	0.06	20	0.40	508	<1	0.01	16	440	8	0.03	<2	3	23
CC136553		<10	1	0.05	10	0.44	409	<1	0.01	17	360	9	0.01	<2	3	27
CC136554		10	1	0.06	20	0.44	390	<1	0.01	18	450	10	0.02	<2	4	30
CC136555		<10	1	0.05	20	0.41	369	<1	0.01	15	390	7	0.01	<2	4	23
CC136556		<10	<1	0.05	20	0.32	322	<1	0.01	11	430	12	0.01	<2	3	16
CC136557		10	<1	0.05	10	0.40	146	<1	0.01	14	590	17	0.05	<2	3	19
CC136558		10	1	0.05	10	0.40	135	<1	0.01	14	530	15	0.04	<2	2	19
CC136559		10	<1	0.05	10	0.47	393	<1	0.01	16	610	12	0.04	<2	3	22
CC136560		10	1	0.06	20	0.48	160	<1	0.01	16	520	17	0.02	<2	3	17
CC136561		10	<1	0.06	20	0.52	182	<1	0.01	17	530	11	0.02	<2	3	18
CC136562		10	<1	0.08	20	0.61	555	<1	0.01	20	560	13	0.02	<2	4	22
CC136563		10	<1	0.07	30	0.45	409	1	0.01	23	620	37	0.02	<2	5	25
CC136564		10	1	0.03	10	0.26	281	1	0.01	10	320	19	0.02	<2	3	11
CC136565		<10	1	0.08	30	0.21	243	<1	<0.01	8	260	14	0.01	<2	2	14
CC136566		<10	<1	0.11	30	0.62	294	<1	0.01	26	560	20	0.05	<2	7	32
CC136567		<10	<1	0.20	20	0.75	460	<1	0.01	21	650	22	0.01	<2	5	23
CC136568		<10	<1	0.13	20	0.68	687	1	0.02	25	600	12	0.02	<2	5	25
CC136569		10	<1	0.08	10	0.68	247	<1	0.01	19	320	12	0.03	<2	4	16
CC136570		10	1	0.09	20	0.91	477	<1	0.02	24	600	8	0.04	<2	5	27
CC136571		10	1	0.06	10	0.61	552	<1	0.01	16	320	8	0.01	<2	3	17
CC136572		10	<1	0.07	20	0.75	264	2	0.02	21	460	13	0.03	<2	4	21
CC136573		10	<1	0.16	30	0.81	399	2	0.02	25	410	11	0.01	<2	5	29
CC136574		10	1	0.48	30	1.32	788	2	0.02	38	450	10	0.01	<2	7	30
CC136575		<10	<1	0.09	20	0.45	279	1	0.02	17	370	7	0.01	<2	3	21
CC136576		<10	<1	0.04	20	0.39	271	2	0.02	15	350	9	0.01	<2	4	26
CC136577		10	<1	0.06	20	0.41	406	2	0.02	18	530	10	0.02	<2	4	28
CC136578		10	<1	0.07	20	0.69	584	2	0.01	21	510	12	0.03	<2	4	25
CC136579		10	<1	0.06	10	0.71	207	2	0.02	19	340	15	0.02	<2	3	18
CC136580		10	<1	0.06	10	0.66	210	1	0.02	18	230	18	0.02	<2	4	18

***** See Appendix Page for comments regarding this certificate *****

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

Finalized Date: 28- JUL- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138855

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC136541		<20	0.10	<10	<10	62	<10	58
CC136542		<20	0.14	<10	<10	74	<10	77
CC136543		<20	0.12	<10	<10	56	<10	66
CC136544		<20	0.12	<10	<10	64	<10	67
CC136545		<20	0.10	<10	<10	54	<10	57
CC136546		<20	0.11	<10	<10	52	<10	51
CC136547		<20	0.11	<10	<10	66	<10	63
CC136548		<20	0.11	<10	<10	95	<10	103
CC136549		<20	0.10	<10	<10	61	<10	53
CC136550		<20	0.11	<10	<10	71	<10	70
CC136551		<20	0.10	<10	<10	67	<10	71
CC136552		<20	0.09	<10	<10	58	<10	54
CC136553		<20	0.09	<10	<10	58	<10	46
CC136554		<20	0.09	<10	<10	63	<10	49
CC136555		<20	0.09	<10	<10	54	<10	45
CC136556		20	0.08	<10	<10	40	<10	39
CC136557		<20	0.07	<10	<10	51	<10	47
CC136558		<20	0.07	<10	<10	48	<10	46
CC136559		<20	0.07	<10	<10	51	<10	55
CC136560		<20	0.08	<10	<10	53	<10	53
CC136561		<20	0.09	<10	<10	58	<10	53
CC136562		<20	0.09	<10	<10	68	<10	72
CC136563		<20	0.08	<10	10	71	<10	101
CC136564		<20	0.12	<10	<10	86	<10	41
CC136565		30	0.05	<10	<10	27	<10	41
CC136566		<20	0.08	<10	<10	60	<10	71
CC136567		<20	0.12	<10	<10	60	<10	68
CC136568		<20	0.11	<10	<10	61	<10	58
CC136569		<20	0.13	<10	<10	69	<10	51
CC136570		<20	0.12	<10	<10	67	<10	58
CC136571		<20	0.11	<10	<10	71	<10	47
CC136572		<20	0.09	<10	<10	57	<10	51
CC136573		<20	0.11	<10	<10	56	<10	50
CC136574		<20	0.12	<10	<10	63	<10	63
CC136575		<20	0.08	<10	<10	42	<10	38
CC136576		<20	0.08	<10	<10	49	<10	40
CC136577		<20	0.07	<10	<10	56	<10	48
CC136578		<20	0.08	<10	<10	59	<10	47
CC136579		<20	0.10	<10	<10	60	<10	49
CC136580		<20	0.11	<10	<10	61	<10	48

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28- JUL- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138855

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC136581		0.12	0.002	0.6	1.66	6	<10	100	0.5	<2	0.27	<0.5	12	38	13	2.36
CC136582		0.08	0.006	0.2	1.23	6	<10	90	<0.5	<2	0.17	<0.5	6	21	8	1.57
CC136583		0.08	0.005	0.2	1.72	7	<10	150	<0.5	<2	0.20	<0.5	9	27	10	2.24
CC136584		0.10	NSS	0.2	1.79	7	<10	140	0.5	<2	0.23	<0.5	8	29	11	2.23
CC136585		0.14	0.005	<0.2	1.52	8	<10	50	<0.5	<2	0.08	<0.5	5	22	9	2.38
CC136586		0.13	0.005	0.2	1.28	9	<10	120	0.7	<2	0.17	<0.5	11	23	12	1.83
CC136587		0.08	0.001	0.2	2.17	18	<10	110	<0.5	<2	0.22	<0.5	9	30	11	3.85
CC136588		0.20	0.011	0.2	1.73	31	<10	160	2.2	<2	0.20	<0.5	8	27	13	2.30
CC136589		0.07	0.008	0.2	1.53	10	<10	160	0.8	<2	0.29	<0.5	6	26	10	1.72
CC136590		0.10	0.004	0.2	1.87	11	<10	140	0.8	<2	0.23	<0.5	9	36	12	2.45
CC136591		0.21	0.016	0.2	2.02	11	<10	130	0.7	<2	0.29	<0.5	15	51	12	2.77
CC136592		0.20	0.006	0.2	1.77	9	<10	100	0.6	<2	0.27	<0.5	15	42	11	2.64
CC136593		0.11	0.005	<0.2	1.51	8	<10	80	<0.5	<2	0.20	<0.5	10	30	8	2.35
CC136594		0.21	0.005	0.3	2.35	8	<10	240	1.2	<2	0.53	<0.5	19	85	24	3.80
CC136595		0.17	0.010	0.3	1.85	10	<10	160	0.7	<2	0.20	<0.5	10	35	16	2.43
CC136596		0.28	0.008	0.2	2.67	9	<10	230	1.3	<2	0.59	<0.5	24	93	38	3.19
CC136597		0.26	0.003	0.2	1.97	10	<10	170	<0.5	<2	0.31	<0.5	11	32	11	2.70
CC136598		0.16	0.004	0.2	2.63	10	<10	280	0.5	<2	0.39	<0.5	12	34	18	2.84
CC136599		0.29	0.006	0.2	1.69	7	<10	150	<0.5	<2	0.29	<0.5	8	27	13	2.30
CC136600		0.30	0.007	0.2	1.73	8	<10	180	<0.5	<2	0.35	<0.5	9	29	22	2.31

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Finalized Date: 28- JUL- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138855

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136581		<10	<1	0.11	20	0.65	371	2	0.02	19	640	18	0.04	<2	4	21
CC136582		<10	<1	0.04	10	0.30	109	2	0.02	12	500	13	0.04	<2	2	16
CC136583		10	<1	0.05	10	0.43	229	2	0.02	16	520	12	0.03	<2	3	20
CC136584		<10	<1	0.05	10	0.45	154	1	0.02	18	550	12	0.04	<2	3	22
CC136585		10	<1	0.03	10	0.21	147	2	0.01	9	200	12	0.01	<2	2	10
CC136586		<10	<1	0.05	10	0.29	603	1	0.02	13	410	11	0.02	<2	2	18
CC136587		10	<1	0.04	10	0.33	314	2	0.01	14	310	17	0.02	<2	3	18
CC136588		<10	<1	0.07	50	0.30	362	2	0.02	18	530	17	0.03	<2	4	19
CC136589		<10	<1	0.06	20	0.36	116	1	0.02	15	520	13	0.04	<2	4	26
CC136590		10	<1	0.10	20	0.58	188	2	0.02	20	540	12	0.03	<2	5	20
CC136591		10	1	0.13	10	0.90	536	2	0.02	25	400	10	0.01	<2	5	21
CC136592		10	<1	0.09	10	0.64	653	2	0.02	21	410	15	0.03	<2	4	19
CC136593		10	1	0.06	10	0.54	243	2	0.02	16	330	10	0.02	<2	3	17
CC136594		10	<1	0.54	30	1.45	627	2	0.02	36	1060	21	0.02	<2	8	28
CC136595		10	<1	0.08	30	0.40	271	2	0.02	20	540	10	0.03	<2	4	22
CC136596		10	<1	0.69	30	1.97	742	2	0.02	45	770	8	0.01	<2	6	31
CC136597		10	<1	0.08	10	0.47	443	2	0.02	18	450	11	0.01	<2	3	26
CC136598		10	1	0.08	30	0.46	441	2	0.02	21	450	12	0.02	<2	5	37
CC136599		10	<1	0.05	20	0.38	258	2	0.02	16	360	9	0.01	<2	4	24
CC136600		<10	<1	0.06	20	0.44	260	1	0.02	25	380	10	0.01	<2	4	28

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Finalized Date: 28- JUL- 2011
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Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138855

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC136581		<20	0.09	<10	<10	53	<10	55
CC136582		<20	0.05	<10	<10	31	<10	35
CC136583		<20	0.06	<10	<10	49	<10	48
CC136584		<20	0.06	<10	<10	45	<10	49
CC136585		<20	0.09	<10	<10	78	<10	25
CC136586		<20	0.05	<10	<10	44	<10	45
CC136587		<20	0.11	<10	<10	90	<10	49
CC136588		20	0.06	<10	10	45	<10	63
CC136589		<20	0.06	<10	<10	31	<10	44
CC136590		<20	0.08	<10	<10	52	<10	46
CC136591		<20	0.11	<10	<10	64	<10	49
CC136592		<20	0.10	<10	<10	59	<10	52
CC136593		<20	0.10	<10	<10	62	<10	47
CC136594		<20	0.13	<10	<10	87	<10	79
CC136595		<20	0.08	<10	<10	54	<10	44
CC136596		20	0.16	<10	20	61	<10	63
CC136597		<20	0.10	<10	<10	67	<10	51
CC136598		<20	0.09	<10	<10	64	<10	58
CC136599		<20	0.09	<10	<10	56	<10	45
CC136600		<20	0.09	<10	<10	54	<10	53

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Finalized Date: 28- JUL- 2011
Account: F

Project: Arcus- Dan Man- Soils 2

CERTIFICATE OF ANALYSIS WH11138855

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

ALS Canada Ltd.
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 30- JUL- 2011
Account: F

CERTIFICATE WH11141041

Project: Arcus - Dan Man

P.O. No.: Prospect 3

This report is for 5 Rock samples submitted to our lab in Whitehorse, YT, Canada on 23- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
PUL- QC	Pulverizing QC Test
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
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141041

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I079866		0.07	0.011	<0.2	0.76	3	<10	30	0.9	<2	4.96	<0.5	4	8	6	2.46
I079867		0.13	<0.005	<0.2	0.77	2	<10	40	1.1	2	4.21	<0.5	9	4	9	2.80
I079868		0.09	<0.005	0.3	2.12	7	<10	60	0.7	3	1.99	<0.5	8	31	9	2.86
I079869		0.19	<0.005	0.3	0.77	6	<10	60	0.7	2	8.5	<0.5	5	4	9	3.00
I079870		0.25	<0.005	<0.2	0.23	2	<10	20	<0.5	<2	0.14	<0.5	1	5	2	2.31

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CERTIFICATE OF ANALYSIS WH11141041

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I079866		<10	<1	0.28	<10	0.20	413	1	0.17	9	110	<2	0.01	<2	6	40
I079867		<10	<1	0.34	<10	0.16	386	1	0.09	10	390	<2	0.02	<2	10	61
I079868		10	1	0.27	<10	0.64	368	<1	0.14	10	1080	<2	0.02	<2	11	197
I079869		<10	<1	0.46	<10	0.23	1020	<1	0.04	10	530	2	0.01	4	4	113
I079870		<10	<1	0.11	20	0.05	100	<1	0.12	4	60	<2	0.01	<2	<1	8

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CERTIFICATE OF ANALYSIS WH11141041

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I079866		<20	0.01	<10	<10	2	<10	19
I079867		<20	0.01	<10	<10	8	<10	19
I079868		<20	0.04	<10	<10	27	<10	20
I079869		<20	0.01	<10	<10	8	<10	13
I079870		30	0.02	<10	<10	24	<10	2

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Finalized Date: 30- JUL- 2011
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CERTIFICATE WH11141042

Project: Arcus - Dan Man

P.O. No.: Soils 3

This report is for 163 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136751		0.08	0.013	<0.2	1.92	18	<10	200	0.6	2	0.34	<0.5	8	34	16	2.60
CC136752		0.10	0.005	<0.2	2.20	15	<10	150	0.7	<2	0.15	<0.5	5	30	20	2.74
CC136753		0.09	<0.001	<0.2	0.34	3	<10	50	<0.5	2	0.07	<0.5	2	7	7	0.64
CC136754		0.09	0.006	0.2	0.87	5	<10	120	0.5	2	0.17	<0.5	2	17	15	1.07
CC136755		0.06	0.003	<0.2	1.99	12	<10	90	<0.5	<2	0.15	<0.5	5	27	15	2.77
CC136756		0.11	0.001	0.3	0.62	2	<10	40	<0.5	3	0.05	<0.5	1	9	10	0.91
CC136757		0.19	0.004	<0.2	2.11	8	<10	190	<0.5	3	0.31	<0.5	7	31	14	2.65
CC136758		0.27	0.003	<0.2	1.44	4	<10	110	<0.5	2	0.32	<0.5	8	29	11	2.36
CC136759		0.10	0.013	<0.2	1.15	8	<10	110	<0.5	2	0.16	<0.5	6	22	14	1.93
CC136760		0.11	0.002	<0.2	0.40	2	<10	40	<0.5	<2	0.06	<0.5	1	7	4	0.61
CC136791		0.19	0.004	<0.2	1.39	9	<10	130	<0.5	2	0.30	<0.5	6	25	11	2.06
CC136792		0.14	0.003	<0.2	1.43	6	<10	80	<0.5	2	0.23	<0.5	8	31	12	2.10
CC136793		0.10	0.008	0.2	1.42	9	<10	150	<0.5	3	0.26	<0.5	7	25	16	1.99
CC136794		0.17	0.015	<0.2	1.66	10	<10	130	<0.5	2	0.33	<0.5	8	29	15	2.35
CC136795		0.05	NSS	0.3	0.86	2	<10	240	<0.5	<2	0.43	<0.5	3	14	9	1.14
CC136796		0.06	0.015	<0.2	1.58	6	<10	140	<0.5	<2	0.25	<0.5	6	28	13	2.15
CC136797		0.07	0.025	0.2	1.63	7	<10	150	<0.5	3	0.30	<0.5	7	27	13	2.13
CC136798		0.13	0.019	0.3	2.33	19	<10	180	0.8	2	0.23	<0.5	10	37	21	3.20
CC136799		0.16	0.007	<0.2	1.68	13	<10	130	0.6	<2	0.28	<0.5	8	32	14	2.68
CC136800		0.26	0.008	<0.2	1.75	8	<10	130	<0.5	2	0.29	<0.5	8	32	13	2.69
CC144241		0.15	0.004	0.2	2.75	9	<10	220	1.2	2	0.41	<0.5	11	58	27	3.65
CC144242		0.14	0.004	<0.2	1.89	8	<10	140	1.1	2	0.28	<0.5	10	49	16	2.97
CC144243		0.18	0.005	<0.2	1.71	10	<10	140	0.8	<2	0.25	<0.5	12	41	14	2.63
CC144244		0.13	0.020	<0.2	2.22	22	<10	160	0.9	2	0.27	<0.5	13	41	14	3.30
CC144245		0.22	0.013	<0.2	2.81	12	<10	240	0.9	2	0.32	<0.5	14	49	24	3.55
CC144246		0.31	0.007	<0.2	2.37	10	<10	180	0.6	<2	0.33	<0.5	12	46	20	3.48
CC144247		0.20	0.004	<0.2	2.94	14	<10	200	0.9	2	0.27	<0.5	15	50	25	4.02
CC144248		0.22	0.008	<0.2	1.88	12	<10	130	0.6	2	0.22	<0.5	12	37	19	3.00
CC144249		0.21	0.010	<0.2	1.89	10	<10	130	0.5	<2	0.27	<0.5	10	34	17	2.86
CC144250		0.17	0.002	<0.2	1.97	9	<10	140	0.5	<2	0.32	<0.5	11	36	17	3.10
CC144235		0.32	0.001	<0.2	2.02	5	<10	130	0.8	2	0.28	<0.5	9	37	19	2.90
CC144236		0.14	0.006	<0.2	2.78	16	<10	140	0.5	<2	0.24	<0.5	9	37	15	3.39
CC144239		0.14	0.010	<0.2	2.64	13	<10	160	1.1	2	0.32	<0.5	11	41	24	3.36
CC144240		0.22	0.002	<0.2	1.82	8	<10	110	0.9	<2	0.32	<0.5	9	42	17	2.61
CC136601		0.07	<0.001	<0.2	2.21	11	<10	240	1.4	<2	0.52	<0.5	15	45	28	2.85
CC136602		0.14	<0.001	<0.2	0.85	5	<10	60	<0.5	<2	0.11	<0.5	4	18	5	1.60
CC136603		0.12	<0.001	<0.2	0.97	9	<10	100	<0.5	<2	0.17	<0.5	6	30	14	2.00
CC136604		0.11	<0.001	<0.2	0.27	<2	<10	30	<0.5	<2	0.06	<0.5	1	6	4	0.64
CC136605		0.11	0.002	<0.2	1.62	6	<10	140	<0.5	<2	0.22	<0.5	7	35	13	2.25
CC136606		0.20	0.007	<0.2	1.59	7	<10	120	<0.5	<2	0.23	<0.5	8	29	10	2.38

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136751		10	<1	0.05	20	0.46	230	1	0.02	21	600	9	0.04	<2	4	28
CC136752		10	<1	0.04	20	0.27	166	<1	0.02	15	470	8	0.01	<2	5	18
CC136753		<10	1	0.02	<10	0.02	214	1	0.02	3	400	<2	0.01	<2	<1	8
CC136754		<10	<1	0.04	20	0.11	163	1	0.02	13	360	3	0.02	<2	1	19
CC136755		10	1	0.05	10	0.29	146	1	0.02	13	320	7	0.01	<2	3	17
CC136756		<10	<1	0.03	<10	0.02	33	1	0.02	3	140	2	<0.01	<2	1	9
CC136757		10	<1	0.05	10	0.44	256	<1	0.02	17	360	7	0.01	<2	4	26
CC136758		<10	<1	0.04	10	0.42	287	<1	0.02	16	380	5	0.01	<2	3	22
CC136759		10	<1	0.06	10	0.25	317	1	0.02	15	390	6	0.01	<2	2	14
CC136760		<10	<1	0.03	<10	0.05	31	1	0.02	4	170	<2	0.01	<2	<1	8
CC136791		<10	<1	0.05	20	0.32	300	<1	0.02	13	360	5	0.01	<2	3	23
CC136792		<10	<1	0.06	30	0.44	289	<1	0.02	18	520	3	0.01	<2	3	17
CC136793		10	1	0.04	10	0.27	235	<1	0.02	14	930	3	0.06	<2	2	25
CC136794		<10	<1	0.04	10	0.47	199	1	0.02	17	620	3	0.02	<2	4	23
CC136795		<10	1	0.02	40	0.04	95	1	0.02	10	1310	<2	0.14	<2	2	37
CC136796		10	<1	0.04	10	0.37	179	<1	0.02	14	650	5	0.04	<2	3	21
CC136797		10	1	0.05	10	0.40	172	<1	0.02	15	690	6	0.04	<2	3	24
CC136798		10	1	0.07	10	0.41	408	<1	0.02	20	750	8	0.04	<2	3	22
CC136799		10	<1	0.06	10	0.39	341	1	0.02	18	530	8	0.02	<2	3	24
CC136800		10	1	0.05	10	0.47	343	<1	0.02	18	310	5	0.01	<2	3	23
CC144241		10	1	0.13	30	0.84	555	<1	0.02	29	640	11	0.03	<2	6	37
CC144242		10	<1	0.12	30	0.64	485	<1	0.01	23	570	11	0.01	<2	4	24
CC144243		10	1	0.07	20	0.46	704	1	0.02	18	750	8	0.04	<2	4	23
CC144244		10	1	0.07	20	0.51	720	<1	0.02	19	700	12	0.02	<2	5	23
CC144245		10	<1	0.06	20	0.53	680	<1	0.02	23	710	10	0.03	4	6	29
CC144246		10	1	0.06	20	0.58	608	1	0.02	23	610	9	0.02	2	5	27
CC144247		10	1	0.08	20	0.65	744	<1	0.02	26	560	10	0.02	<2	5	23
CC144248		10	<1	0.07	20	0.45	617	<1	0.02	20	550	8	0.01	<2	3	19
CC144249		10	<1	0.07	20	0.50	447	<1	0.02	20	440	5	0.01	<2	4	23
CC144250		10	<1	0.07	10	0.52	589	1	0.02	19	570	5	0.01	<2	3	27
CC144235		10	<1	0.09	30	0.61	437	<1	0.02	19	520	7	0.01	2	5	23
CC144236		10	1	0.05	10	0.50	308	<1	0.02	21	520	5	0.01	<2	4	23
CC144239		10	<1	0.08	20	0.63	361	<1	0.02	21	590	13	0.01	<2	6	27
CC144240		10	1	0.13	40	0.73	324	<1	0.02	19	630	7	0.01	<2	4	22
CC136601		10	<1	0.08	40	0.57	812	<1	0.01	27	870	9	0.06	<2	5	35
CC136602		<10	<1	0.03	10	0.20	137	<1	0.01	7	230	6	0.01	<2	1	11
CC136603		10	<1	0.06	10	0.28	301	<1	0.01	13	320	10	0.02	<2	2	16
CC136604		<10	<1	0.02	<10	0.03	30	<1	0.02	<1	200	<2	0.01	<2	<1	8
CC136605		10	<1	0.05	10	0.50	196	<1	0.01	16	840	8	0.05	<2	2	20
CC136606		10	<1	0.05	10	0.47	260	<1	0.01	15	520	9	0.02	<2	3	18

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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC136751		<20	0.08	<10	<10	55	<10	54
CC136752		<20	0.08	<10	<10	56	<10	36
CC136753		<20	0.02	<10	<10	17	<10	14
CC136754		<20	0.03	<10	<10	23	<10	22
CC136755		<20	0.09	<10	<10	59	<10	36
CC136756		<20	0.05	<10	<10	24	<10	9
CC136757		<20	0.10	<10	<10	63	<10	46
CC136758		<20	0.10	<10	<10	57	<10	39
CC136759		<20	0.08	<10	<10	50	<10	40
CC136760		<20	0.03	<10	<10	15	<10	10
CC136791		<20	0.08	<10	<10	48	<10	39
CC136792		<20	0.09	<10	<10	46	<10	42
CC136793		<20	0.06	<10	<10	33	<10	37
CC136794		<20	0.09	<10	<10	51	<10	52
CC136795		<20	0.02	<10	<10	7	<10	17
CC136796		<20	0.07	<10	<10	43	<10	43
CC136797		<20	0.07	<10	<10	43	<10	47
CC136798		<20	0.08	<10	<10	69	<10	61
CC136799		<20	0.08	<10	<10	59	<10	56
CC136800		<20	0.10	<10	<10	63	<10	44
CC144241		<20	0.12	<10	<10	78	<10	68
CC144242		<20	0.11	<10	<10	64	<10	54
CC144243		<20	0.07	<10	<10	54	<10	44
CC144244		<20	0.08	<10	<10	67	<10	56
CC144245		<20	0.09	<10	<10	72	<10	60
CC144246		<20	0.11	<10	<10	77	<10	59
CC144247		<20	0.12	<10	<10	87	<10	66
CC144248		<20	0.10	<10	<10	68	<10	53
CC144249		<20	0.10	<10	<10	65	<10	47
CC144250		<20	0.10	<10	<10	70	<10	59
CC144235		<20	0.12	<10	<10	66	<10	48
CC144236		<20	0.11	<10	<10	76	<10	51
CC144239		<20	0.11	<10	<10	73	<10	55
CC144240		<20	0.13	<10	<10	57	<10	46
CC136601		<20	0.07	<10	<10	58	<10	66
CC136602		<20	0.07	<10	<10	41	<10	24
CC136603		<20	0.09	<10	<10	70	<10	39
CC136604		<20	0.03	<10	<10	18	<10	9
CC136605		<20	0.06	<10	<10	44	<10	44
CC136606		<20	0.08	<10	<10	58	<10	49

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC136608		0.12	0.005	<0.2	1.92	9	<10	150	<0.5	<2	0.25	<0.5	8	31	13	2.61
CC136609		Destroyed														
CC136610		0.23	0.010	<0.2	1.30	7	<10	90	<0.5	<2	0.15	<0.5	5	22	6	1.77
CC136611		0.11	0.012	<0.2	1.62	15	<10	210	<0.5	<2	0.39	<0.5	9	29	11	2.37
CC136612		0.17	0.008	<0.2	1.39	8	<10	70	<0.5	<2	0.18	<0.5	6	23	9	2.21
CC136613		0.17	0.009	<0.2	1.42	6	<10	150	<0.5	<2	0.24	<0.5	5	25	12	2.49
CC136614		0.21	0.001	<0.2	1.92	8	<10	170	<0.5	<2	0.29	<0.5	8	31	18	2.91
CC136615		0.15	<0.001	<0.2	2.06	8	<10	160	<0.5	<2	0.28	<0.5	9	34	18	2.92
CC136616		0.14	0.002	<0.2	1.54	9	<10	150	<0.5	<2	0.34	<0.5	6	29	9	2.27
CC136617		0.30	<0.001	<0.2	2.04	8	<10	140	0.5	<2	0.27	<0.5	11	37	17	2.82
CC136618		0.23	<0.001	<0.2	0.40	<2	<10	60	<0.5	<2	0.08	<0.5	1	7	5	0.67
CC136619		0.17	0.002	<0.2	1.68	10	<10	120	0.6	<2	0.24	<0.5	8	38	15	2.55
CC136620		0.16	0.007	<0.2	1.97	12	<10	200	0.9	<2	0.39	<0.5	11	45	20	2.75
CC136621		0.20	0.002	<0.2	1.44	6	<10	90	<0.5	<2	0.11	<0.5	4	22	14	1.68
CC136622		0.14	0.006	<0.2	0.38	2	<10	60	<0.5	<2	0.06	<0.5	1	6	4	0.58
CC136623		0.35	0.005	0.2	1.67	6	<10	150	0.7	<2	0.25	<0.5	8	30	16	2.14
CC136624		0.30	0.013	<0.2	2.09	11	<10	190	0.8	<2	0.35	<0.5	11	48	20	2.98
CC136625		0.18	0.003	<0.2	2.26	9	<10	90	0.8	<2	0.24	<0.5	13	59	15	3.18
CC136626		0.16	0.001	<0.2	1.21	9	<10	100	<0.5	<2	0.17	<0.5	5	22	12	2.53
CC136627		0.24	0.001	<0.2	2.63	14	<10	150	2.0	<2	0.53	<0.5	19	147	20	4.89
CC136628		0.27	<0.001	<0.2	1.20	10	<10	60	<0.5	2	0.10	<0.5	6	30	8	2.40
CC136629		0.28	0.007	<0.2	1.82	10	<10	100	0.5	<2	0.34	<0.5	11	43	12	3.00
CC136630		0.24	0.001	<0.2	2.23	7	<10	150	0.8	<2	0.57	<0.5	13	53	16	3.39
CC144631		0.21	0.012	<0.2	1.76	14	<10	170	0.6	<2	0.29	<0.5	10	33	19	2.80
CC144632		0.29	0.013	<0.2	1.98	9	<10	160	0.5	<2	0.28	<0.5	8	33	16	2.55
CC144633		0.35	0.007	<0.2	1.91	5	<10	160	<0.5	<2	0.33	<0.5	9	33	18	2.69
CC144634		0.28	0.008	<0.2	1.82	4	<10	150	<0.5	<2	0.33	<0.5	7	30	15	2.44
CC144635		0.25	0.004	<0.2	1.88	9	<10	190	<0.5	<2	0.34	<0.5	10	32	19	2.76
CC144636		0.14	0.006	<0.2	1.82	6	<10	150	<0.5	<2	0.27	<0.5	8	31	13	2.56
CC144637		0.31	0.004	<0.2	2.10	7	<10	170	<0.5	<2	0.28	<0.5	10	35	18	2.77
CC144638		0.34	0.007	<0.2	1.90	9	<10	150	0.7	<2	0.30	<0.5	8	36	16	2.59
CC144639		0.18	0.002	<0.2	2.16	11	<10	120	0.5	<2	0.25	<0.5	14	41	19	3.00
CC144640		0.14	0.001	<0.2	1.17	4	<10	90	<0.5	<2	0.07	<0.5	6	18	14	2.10
CC144641		0.21	0.005	<0.2	2.17	15	<10	80	0.5	<2	0.19	<0.5	12	39	13	3.12
CC144642		0.13	<0.001	<0.2	1.10	5	<10	60	<0.5	<2	0.10	<0.5	6	17	10	1.86
CC144643		0.14	0.010	<0.2	2.11	11	<10	140	0.7	<2	0.25	<0.5	14	38	18	2.91
CC144644		0.10	0.004	<0.2	0.79	4	<10	30	<0.5	<2	0.07	<0.5	5	14	7	1.66
CC144645		0.12	0.008	<0.2	1.77	7	<10	80	0.5	<2	0.29	<0.5	11	34	15	2.68
CC144646		0.17	0.007	<0.2	2.19	7	<10	170	0.8	<2	0.48	<0.5	17	54	25	3.21
CC144647		0.15	0.006	<0.2	1.51	3	<10	80	<0.5	<2	0.17	<0.5	8	36	18	2.04

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136608		10	<1	0.05	10	0.50	186	<1	0.01	17	660	8	0.02	<2	3	20
CC136609																
CC136610		<10	<1	0.04	10	0.32	195	<1	0.01	10	320	10	0.01	<2	2	13
CC136611		<10	1	0.05	20	0.40	405	<1	0.02	15	940	14	0.07	<2	3	33
CC136612		10	<1	0.04	10	0.34	191	<1	0.01	12	360	8	0.02	<2	2	13
CC136613		<10	<1	0.04	20	0.33	129	<1	0.01	12	880	6	0.05	<2	2	20
CC136614		10	<1	0.05	10	0.50	181	<1	0.01	17	710	8	0.01	<2	4	21
CC136615		10	<1	0.05	10	0.54	237	<1	0.01	18	700	8	0.01	<2	4	21
CC136616		10	<1	0.04	10	0.43	168	<1	0.01	14	710	8	0.04	<2	3	27
CC136617		10	<1	0.06	10	0.61	449	<1	0.01	19	580	9	0.01	<2	4	20
CC136618		<10	<1	0.02	<10	0.04	50	<1	0.02	2	340	3	0.01	<2	<1	11
CC136619		10	<1	0.08	20	0.57	295	<1	0.01	19	460	11	0.01	<2	4	18
CC136620		10	<1	0.07	20	0.64	395	<1	0.01	24	590	10	0.02	<2	5	27
CC136621		10	<1	0.06	10	0.21	163	<1	0.02	8	170	10	0.02	<2	3	15
CC136622		<10	<1	0.02	10	0.06	42	<1	0.03	<1	370	<2	0.04	<2	<1	10
CC136623		<10	1	0.05	40	0.40	261	<1	0.02	15	580	7	0.03	<2	4	22
CC136624		10	<1	0.10	20	0.73	356	<1	0.02	21	530	8	0.02	<2	8	27
CC136625		10	1	0.25	30	1.18	503	<1	0.01	23	480	11	0.01	<2	5	18
CC136626		10	1	0.04	10	0.24	241	<1	0.01	9	270	12	0.02	<2	2	18
CC136627		10	<1	1.00	40	1.81	914	<1	0.02	53	930	24	0.01	<2	16	29
CC136628		10	1	0.05	10	0.33	244	<1	0.01	12	260	13	0.01	<2	2	11
CC136629		10	<1	0.15	10	0.91	432	<1	0.01	23	590	12	0.01	<2	4	20
CC136630		10	<1	0.29	20	1.39	523	<1	0.01	30	760	12	0.02	<2	5	27
CC144631		<10	1	0.06	30	0.48	570	<1	0.01	21	630	11	0.02	<2	5	21
CC144632		10	<1	0.06	20	0.50	157	<1	0.02	19	670	12	0.03	<2	4	20
CC144633		10	<1	0.05	20	0.53	209	<1	0.02	18	700	11	0.02	<2	4	22
CC144634		10	1	0.04	10	0.51	171	<1	0.02	18	670	7	0.02	<2	4	22
CC144635		10	<1	0.05	20	0.52	244	<1	0.02	18	690	7	0.01	<2	5	25
CC144636		10	1	0.05	10	0.48	207	<1	0.01	16	680	8	0.02	<2	4	20
CC144637		10	<1	0.05	10	0.55	247	<1	0.01	18	620	10	0.01	<2	4	23
CC144638		10	1	0.06	20	0.56	266	<1	0.01	18	490	12	0.01	<2	5	22
CC144639		10	<1	0.06	10	0.63	455	3	0.01	25	480	11	0.02	<2	4	20
CC144640		10	<1	0.03	10	0.10	500	4	0.01	7	370	10	0.03	<2	1	11
CC144641		10	<1	0.05	10	0.55	310	3	0.01	20	340	12	0.02	<2	4	17
CC144642		10	<1	0.03	10	0.17	159	3	0.01	8	210	8	0.02	<2	2	12
CC144643		10	<1	0.07	20	0.59	437	3	0.01	23	520	18	0.03	<2	5	21
CC144644		10	<1	0.03	<10	0.21	114	3	0.01	7	180	5	0.02	<2	1	9
CC144645		10	<1	0.10	10	0.64	353	3	0.01	19	610	11	0.02	<2	4	20
CC144646		10	<1	0.17	20	0.98	601	3	0.01	30	710	17	0.03	<2	6	29
CC144647		10	<1	0.11	10	0.71	205	3	0.01	18	350	8	0.03	<2	2	19

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VANCOUVER BC V6B 1L8

Finalized Date: 30- JUL- 2011
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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC136608		<20	0.08	<10	<10	60	<10	55
CC136609								
CC136610		<20	0.07	<10	<10	40	<10	35
CC136611		<20	0.06	<10	<10	54	<10	54
CC136612		<20	0.09	<10	<10	55	<10	35
CC136613		<20	0.06	<10	<10	52	<10	36
CC136614		<20	0.09	<10	<10	62	<10	52
CC136615		<20	0.09	<10	<10	63	<10	55
CC136616		<20	0.07	<10	<10	53	<10	45
CC136617		<20	0.10	<10	<10	61	<10	54
CC136618		<20	0.02	<10	<10	15	<10	8
CC136619		<20	0.10	<10	<10	57	<10	48
CC136620		<20	0.10	<10	<10	59	<10	58
CC136621		<20	0.08	<10	<10	41	<10	33
CC136622		<20	0.02	<10	<10	12	<10	6
CC136623		<20	0.07	<10	<10	46	<10	45
CC136624		<20	0.12	<10	<10	67	<10	59
CC136625		<20	0.14	<10	<10	62	<10	64
CC136626		<20	0.11	<10	<10	76	<10	45
CC136627		20	0.18	<10	<10	95	<10	107
CC136628		<20	0.11	<10	<10	73	<10	31
CC136629		<20	0.13	<10	<10	67	<10	61
CC136630		<20	0.13	<10	<10	70	<10	69
CC144631		<20	0.10	<10	<10	62	<10	53
CC144632		<20	0.09	<10	<10	61	<10	57
CC144633		<20	0.11	<10	<10	64	<10	54
CC144634		<20	0.10	<10	<10	56	<10	50
CC144635		<20	0.10	<10	<10	63	<10	54
CC144636		<20	0.08	<10	<10	55	<10	50
CC144637		<20	0.09	<10	<10	62	<10	54
CC144638		<20	0.10	<10	<10	55	<10	56
CC144639		<20	0.11	<10	<10	67	<10	67
CC144640		<20	0.06	<10	<10	61	<10	37
CC144641		<20	0.10	<10	<10	70	<10	60
CC144642		<20	0.08	<10	<10	55	<10	28
CC144643		<20	0.10	<10	<10	62	<10	59
CC144644		<20	0.08	<10	<10	50	<10	22
CC144645		<20	0.12	<10	<10	63	<10	53
CC144646		<20	0.12	<10	<10	73	<10	67
CC144647		<20	0.11	<10	<10	49	<10	35

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CERTIFICATE OF ANALYSIS WH11141042

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144648		0.22	0.006	<0.2	2.49	14	<10	90	1.5	2	0.31	<0.5	21	97	28	4.08
CC144649		0.15	0.001	<0.2	0.91	4	<10	40	<0.5	<2	0.10	<0.5	7	32	9	1.66
CC144650		0.12	<0.001	<0.2	0.72	<2	<10	60	<0.5	<2	0.08	<0.5	6	28	11	1.30
CC144651		0.19	0.007	<0.2	2.27	4	<10	140	0.9	<2	1.05	<0.5	14	74	25	2.90
CC144652		0.18	0.008	<0.2	1.99	11	<10	140	0.9	<2	0.74	<0.5	11	57	26	3.36
CC144653		0.24	0.006	<0.2	1.97	6	<10	130	0.5	<2	0.46	<0.5	13	45	22	2.69
CC144654		0.20	0.002	<0.2	3.33	5	<10	220	1.3	<2	0.79	<0.5	25	225	35	4.02
CC144655		0.34	0.003	<0.2	2.51	6	<10	140	0.8	<2	0.57	<0.5	18	84	27	3.17
CC144656		0.29	0.002	<0.2	2.41	8	<10	150	0.6	2	0.31	<0.5	14	53	20	3.17
CC144657		0.29	0.002	<0.2	2.61	6	<10	120	0.8	<2	0.36	<0.5	15	51	17	3.68
CC144658		0.18	0.006	<0.2	1.79	7	<10	100	<0.5	2	0.17	<0.5	9	38	15	2.54
CC144659		0.10	0.006	<0.2	0.37	<2	<10	30	<0.5	<2	0.05	<0.5	4	10	8	0.76
CC144660		0.18	0.009	<0.2	1.94	7	<10	130	0.7	<2	0.57	<0.5	14	73	19	2.96
CC144661		0.20	0.005	<0.2	0.80	6	<10	40	<0.5	<2	0.05	<0.5	5	14	10	1.94
CC144662		0.26	0.005	<0.2	1.54	13	<10	110	0.5	<2	0.28	<0.5	10	31	15	2.44
CC144663		0.22	0.008	<0.2	1.69	13	<10	120	0.9	<2	0.35	<0.5	15	42	17	2.79
CC144664		0.21	0.002	<0.2	1.80	7	<10	150	<0.5	<2	0.24	<0.5	18	30	12	2.33
CC144665		0.17	0.002	0.2	1.75	7	<10	140	<0.5	<2	0.26	<0.5	11	30	11	2.37
CC144666		0.17	0.003	<0.2	1.66	6	<10	130	<0.5	<2	0.26	<0.5	9	27	10	2.21
CC144667		0.14	0.006	<0.2	1.92	7	<10	150	<0.5	2	0.27	<0.5	8	31	14	2.70
CC144668		0.15	0.010	<0.2	1.45	7	<10	120	<0.5	<2	0.27	<0.5	7	24	10	2.03
CC144669		0.43	0.017	<0.2	1.98	8	<10	200	0.6	<2	0.32	<0.5	12	33	22	2.42
CC144670		0.16	0.015	<0.2	2.39	12	<10	190	0.6	<2	0.29	<0.5	10	37	17	2.81
CC144671		0.18	0.007	<0.2	1.74	9	<10	90	<0.5	<2	0.25	<0.5	13	29	14	2.66
CC144672		0.38	0.008	<0.2	2.13	12	<10	180	0.7	<2	0.25	<0.5	13	33	20	2.85
CC144673		0.23	0.014	<0.2	1.93	8	<10	140	0.5	2	0.28	<0.5	10	32	15	2.44
CC144674		0.15	0.008	<0.2	1.79	9	<10	130	<0.5	<2	0.29	<0.5	9	31	14	2.44
CC144675		0.16	0.007	<0.2	1.87	7	<10	160	0.5	<2	0.27	<0.5	7	31	15	2.04
CC144676		0.19	0.010	<0.2	1.63	9	<10	130	<0.5	2	0.24	<0.5	8	28	10	2.89
CC144677		0.16	0.005	<0.2	1.74	4	<10	170	0.5	2	0.24	<0.5	9	29	10	1.83
CC144678		0.09	0.002	<0.2	1.60	8	<10	130	<0.5	2	0.25	<0.5	8	27	9	2.43
CC144679		0.14	0.006	<0.2	1.67	8	<10	120	<0.5	<2	0.24	<0.5	9	31	9	2.59
CC144680		0.16	0.008	<0.2	1.91	10	<10	120	0.9	<2	0.30	0.6	11	90	17	3.76
CC144681		0.13	0.003	<0.2	1.55	5	<10	150	<0.5	2	0.19	<0.5	8	29	9	2.68
CC144682		0.16	0.010	<0.2	1.75	8	<10	190	0.6	2	0.50	<0.5	14	36	14	2.77
CC144683		0.19	0.002	<0.2	1.62	9	<10	130	<0.5	2	0.29	<0.5	6	29	9	2.64
CC144684		0.40	0.007	<0.2	1.90	8	<10	130	0.5	<2	0.37	<0.5	11	41	14	2.81
CC144685		0.18	0.005	<0.2	1.64	6	<10	100	<0.5	<2	0.28	<0.5	7	34	11	2.22
CC144686		0.25	0.006	<0.2	2.29	8	<10	130	0.8	2	0.31	<0.5	12	51	20	3.02
CC144687		0.15	0.005	<0.2	1.72	10	<10	80	<0.5	2	0.14	<0.5	9	33	12	2.87

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144648		10	<1	0.48	20	1.71	663	4	0.01	46	680	10	0.02	<2	8	19
CC144649		10	<1	0.07	<10	0.44	163	3	0.01	13	220	4	0.02	<2	2	11
CC144650		<10	<1	0.10	<10	0.42	105	3	0.02	10	140	3	0.02	<2	1	10
CC144651		10	<1	0.46	30	1.50	303	3	0.02	37	590	8	0.05	<2	5	34
CC144652		10	1	0.27	30	0.99	210	3	0.02	28	790	9	0.06	<2	5	30
CC144653		10	<1	0.13	20	0.82	245	3	0.02	25	620	9	0.03	<2	5	27
CC144654		10	<1	1.00	10	2.83	627	2	0.01	93	1180	8	0.02	<2	7	24
CC144655		10	<1	0.49	10	1.76	474	3	0.01	47	670	9	0.02	<2	5	25
CC144656		10	<1	0.12	20	0.90	405	3	0.01	31	350	10	0.02	<2	6	23
CC144657		10	<1	0.26	10	1.27	428	3	0.01	27	640	9	0.02	<2	5	24
CC144658		10	<1	0.09	10	0.67	245	3	0.01	19	280	9	0.02	<2	3	16
CC144659		<10	<1	0.06	<10	0.08	45	3	0.01	8	240	4	0.03	<2	<1	8
CC144660		10	<1	0.23	20	1.22	331	3	0.01	30	850	18	0.03	<2	5	29
CC144661		10	<1	0.02	<10	0.09	109	3	0.01	6	190	6	0.02	<2	1	9
CC144662		<10	<1	0.06	20	0.46	326	3	0.01	18	440	12	0.02	<2	4	21
CC144663		<10	<1	0.11	30	0.64	653	3	0.01	28	610	15	0.03	<2	4	23
CC144664		10	<1	0.05	10	0.48	811	3	0.01	16	520	9	0.04	<2	3	22
CC144665		10	<1	0.04	10	0.47	307	3	0.01	17	580	8	0.04	<2	3	22
CC144666		10	<1	0.04	10	0.45	177	3	0.01	16	640	9	0.04	<2	2	22
CC144667		10	<1	0.04	10	0.47	134	3	0.01	16	650	10	0.04	<2	3	23
CC144668		<10	<1	0.04	10	0.39	136	3	0.01	14	620	9	0.04	<2	3	22
CC144669		10	<1	0.06	20	0.52	219	2	0.02	21	540	11	0.02	<2	6	26
CC144670		10	<1	0.06	20	0.50	184	3	0.02	22	600	16	0.04	<2	5	26
CC144671		<10	<1	0.05	10	0.40	603	3	0.01	19	510	11	0.02	<2	3	21
CC144672		10	<1	0.06	20	0.47	274	3	0.02	20	690	12	0.03	<2	5	23
CC144673		10	<1	0.05	20	0.49	203	3	0.02	18	530	11	0.03	<2	4	23
CC144674		10	<1	0.05	10	0.46	177	3	0.02	18	600	10	0.03	<2	4	22
CC144675		10	<1	0.05	10	0.45	137	<1	0.02	18	550	6	0.02	<2	4	22
CC144676		10	<1	0.04	10	0.40	264	1	0.02	13	630	5	0.03	<2	3	20
CC144677		10	<1	0.04	10	0.44	195	<1	0.02	16	510	5	0.03	<2	3	20
CC144678		10	1	0.05	10	0.41	191	<1	0.02	14	650	5	0.03	<2	3	21
CC144679		10	<1	0.05	10	0.46	269	<1	0.02	15	630	5	0.03	<2	3	20
CC144680		10	1	0.21	10	1.09	321	<1	0.02	35	410	18	0.01	<2	6	19
CC144681		10	<1	0.07	<10	0.40	324	<1	0.02	14	210	5	0.01	<2	2	16
CC144682		10	<1	0.07	20	0.64	859	<1	0.02	20	560	7	0.04	<2	4	28
CC144683		10	1	0.05	10	0.45	212	<1	0.02	13	340	5	0.01	<2	3	20
CC144684		10	1	0.09	10	0.75	316	<1	0.02	20	490	5	<0.01	<2	4	23
CC144685		10	<1	0.07	10	0.51	146	<1	0.02	17	300	5	0.02	<2	3	20
CC144686		10	1	0.17	30	1.02	342	<1	0.02	24	390	7	<0.01	<2	5	22
CC144687		10	<1	0.06	10	0.42	417	1	0.01	14	320	10	0.02	<2	3	13

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC144648		<20	0.15	<10	<10	89	<10	67
CC144649		<20	0.10	<10	<10	45	<10	26
CC144650		<20	0.10	<10	<10	41	<10	18
CC144651		<20	0.15	<10	<10	64	<10	61
CC144652		<20	0.12	<10	<10	70	<10	54
CC144653		<20	0.13	<10	<10	61	<10	56
CC144654		<20	0.21	<10	<10	98	<10	64
CC144655		<20	0.16	<10	<10	73	<10	60
CC144656		<20	0.13	<10	<10	70	<10	55
CC144657		<20	0.17	<10	<10	81	<10	51
CC144658		<20	0.13	<10	<10	61	<10	42
CC144659		<20	0.05	<10	<10	25	<10	18
CC144660		<20	0.14	<10	<10	70	<10	74
CC144661		<20	0.09	<10	<10	65	<10	23
CC144662		<20	0.10	<10	<10	56	<10	55
CC144663		<20	0.12	<10	<10	55	<10	55
CC144664		<20	0.08	<10	<10	54	<10	53
CC144665		<20	0.07	<10	<10	57	<10	54
CC144666		<20	0.07	<10	<10	54	<10	50
CC144667		<20	0.08	<10	<10	63	<10	53
CC144668		<20	0.08	<10	<10	48	<10	43
CC144669		<20	0.11	<10	<10	62	<10	59
CC144670		<20	0.09	<10	<10	67	<10	63
CC144671		<20	0.11	<10	<10	62	<10	49
CC144672		<20	0.09	<10	<10	61	<10	54
CC144673		<20	0.10	<10	<10	62	<10	53
CC144674		<20	0.09	<10	<10	59	<10	52
CC144675		<20	0.08	<10	<10	51	<10	55
CC144676		<20	0.07	<10	<10	62	<10	49
CC144677		<20	0.07	<10	<10	40	<10	56
CC144678		<20	0.07	<10	<10	49	<10	52
CC144679		<20	0.07	<10	<10	62	<10	54
CC144680		<20	0.16	<10	<10	87	<10	83
CC144681		<20	0.09	<10	<10	63	<10	46
CC144682		<20	0.08	<10	<10	60	<10	58
CC144683		<20	0.11	<10	<10	67	<10	43
CC144684		<20	0.13	<10	<10	63	<10	50
CC144685		<20	0.11	<10	<10	51	<10	41
CC144686		<20	0.14	<10	<10	65	<10	48
CC144687		<20	0.12	<10	<10	73	<10	42

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144688		0.12	<0.001	<0.2	1.67	8	<10	90	<0.5	<2	0.09	<0.5	7	23	13	2.91
CC144689		0.24	0.005	<0.2	1.77	11	<10	80	1.0	2	0.28	<0.5	11	42	16	2.74
CC144690		0.27	0.004	<0.2	1.60	6	<10	100	<0.5	2	0.37	<0.5	8	34	14	2.42
CC136631		0.08	0.003	<0.2	2.01	10	<10	80	<0.5	<2	0.60	<0.5	11	57	13	3.66
CC136632		0.13	0.011	0.2	2.05	6	<10	160	0.8	2	0.76	<0.5	15	59	20	3.09
CC136633		0.12	0.007	<0.2	1.79	4	<10	130	0.6	2	0.88	<0.5	13	51	14	2.63
CC136634		0.20	0.003	0.2	2.09	7	<10	140	0.7	<2	0.75	<0.5	14	58	18	3.14
CC136635		0.10	0.003	<0.2	2.23	6	<10	120	0.5	2	0.26	<0.5	13	54	13	3.48
CC136636		0.28	0.005	<0.2	1.89	8	<10	140	0.9	2	0.53	<0.5	15	58	14	3.29
CC136637		0.30	0.008	<0.2	2.00	15	<10	150	0.6	2	0.30	<0.5	10	33	16	2.93
CC136638		0.17	0.007	<0.2	1.83	11	<10	170	<0.5	2	0.35	<0.5	8	31	13	2.42
CC136639		0.21	0.005	<0.2	1.48	8	<10	120	<0.5	<2	0.28	<0.5	7	28	13	1.95
CC136640		0.32	0.006	0.2	1.74	12	<10	180	0.5	<2	0.41	<0.5	10	32	62	2.86
CC136641		0.15	0.010	<0.2	1.78	7	<10	140	<0.5	2	0.31	<0.5	7	30	15	2.23
CC136642		0.17	0.003	<0.2	1.63	8	<10	150	<0.5	2	0.27	<0.5	8	28	11	2.45
CC136643		0.13	0.005	<0.2	1.67	6	<10	140	<0.5	<2	0.26	<0.5	10	29	13	2.40
CC136644		0.32	0.011	<0.2	1.92	18	<10	150	0.7	<2	0.27	<0.5	14	39	18	2.80
CC136645		0.13	0.016	0.2	0.96	4	<10	120	0.7	2	0.11	0.8	3	20	39	1.34
CC136646		0.12	0.002	<0.2	0.31	2	<10	20	<0.5	2	0.03	<0.5	2	7	10	0.72
CC136647		0.25	0.006	<0.2	2.07	16	<10	130	0.7	2	0.23	<0.5	11	53	17	3.53
CC136648		0.17	0.004	<0.2	2.13	16	<10	110	0.5	<2	0.15	<0.5	7	31	15	3.47
CC136649		0.20	0.003	<0.2	3.00	15	<10	120	0.6	3	0.14	<0.5	11	41	14	4.00
CC136650		0.09	0.010	<0.2	0.56	8	<10	50	<0.5	2	0.07	<0.5	3	14	9	1.26
CC136651		0.31	0.008	<0.2	2.11	8	<10	170	0.7	<2	0.34	<0.5	14	44	22	2.87
CC136652		0.15	0.002	<0.2	1.37	4	<10	60	<0.5	<2	0.19	<0.5	9	41	11	2.18
CC136653		0.20	0.003	<0.2	0.87	4	<10	60	<0.5	<2	0.07	<0.5	5	17	9	1.67
CC136654		0.21	0.003	<0.2	1.91	7	<10	160	<0.5	<2	0.32	<0.5	10	32	21	2.64
CC136655		0.20	0.003	<0.2	2.05	8	<10	190	0.5	<2	0.32	<0.5	12	35	19	2.77
CC136656		0.25	0.008	<0.2	2.10	9	<10	150	0.7	2	0.32	<0.5	13	40	23	2.76
CC136657		0.21	0.005	<0.2	2.53	12	<10	120	0.8	<2	0.18	<0.5	13	46	17	3.17
CC136658		0.20	0.007	<0.2	1.84	15	<10	100	0.8	<2	0.18	0.6	11	47	19	3.28
CC136659		0.10	0.005	<0.2	2.70	13	<10	180	1.0	2	0.22	<0.5	16	48	18	3.73
CC136660		0.15	0.004	<0.2	1.90	9	<10	80	0.6	<2	0.21	<0.5	12	37	13	2.94
CC136661		0.21	0.002	<0.2	2.68	11	<10	150	0.8	<2	0.24	<0.5	15	42	16	3.11
CC136662		0.26	0.004	<0.2	2.03	14	<10	140	1.1	<2	0.43	<0.5	13	61	19	2.76
CC136663		0.27	0.003	<0.2	1.99	10	<10	180	0.6	<2	0.35	<0.5	11	35	21	2.47
CC136664		0.23	0.007	<0.2	2.21	8	<10	130	0.9	<2	0.33	<0.5	15	50	18	2.93
CC136665		0.18	0.001	<0.2	1.94	9	<10	120	0.6	<2	0.40	<0.5	11	41	16	2.76
CC136666		0.21	0.002	<0.2	1.95	6	<10	120	0.5	<2	0.44	<0.5	12	40	14	2.60
CC136667		0.30	0.003	<0.2	2.41	10	<10	140	1.0	<2	0.44	<0.5	18	62	23	3.16

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144688		10	<1	0.03	10	0.16	628	1	0.01	9	380	6	0.02	<2	2	12
CC144689		10	1	0.14	40	0.66	256	<1	0.01	20	620	7	<0.01	<2	5	18
CC144690		10	<1	0.06	20	0.55	182	<1	0.02	16	570	5	0.01	2	4	23
CC136631		10	1	0.11	10	1.16	370	<1	0.02	28	270	9	0.01	<2	4	28
CC136632		10	<1	0.23	40	1.24	618	<1	0.02	34	590	5	0.02	<2	5	29
CC136633		10	<1	0.17	30	1.00	414	1	0.02	27	630	3	0.05	<2	4	35
CC136634		10	<1	0.20	40	1.09	508	<1	0.02	30	650	5	0.04	<2	5	33
CC136635		10	<1	0.08	10	1.05	359	1	0.02	26	320	4	0.01	<2	3	19
CC136636		10	<1	0.24	20	1.08	525	<1	0.02	27	710	5	0.01	<2	5	24
CC136637		10	<1	0.05	20	0.48	392	<1	0.02	22	580	9	0.01	<2	4	21
CC136638		10	<1	0.05	20	0.47	235	<1	0.02	18	660	9	0.03	<2	4	26
CC136639		10	<1	0.05	10	0.40	197	<1	0.02	15	670	7	0.03	<2	3	20
CC136640		10	<1	0.05	20	0.49	312	1	0.02	65	670	13	0.01	<2	5	28
CC136641		10	<1	0.04	10	0.47	142	<1	0.02	20	680	7	0.02	<2	3	22
CC136642		10	<1	0.04	10	0.42	150	<1	0.02	17	740	5	0.04	<2	2	22
CC136643		10	<1	0.05	10	0.44	285	1	0.02	18	700	5	0.03	<2	3	22
CC136644		10	<1	0.06	20	0.51	673	<1	0.02	21	590	10	0.02	<2	5	21
CC136645		<10	1	0.04	20	0.12	78	1	0.02	16	670	8	0.04	<2	<1	15
CC136646		<10	<1	0.02	<10	<0.01	24	1	0.02	5	280	<2	0.01	<2	<1	6
CC136647		10	<1	0.08	30	0.66	405	1	0.02	26	560	10	0.02	<2	5	18
CC136648		10	<1	0.04	10	0.21	227	<1	0.02	13	310	7	0.02	<2	3	16
CC136649		10	<1	0.05	10	0.45	294	<1	0.02	19	370	8	0.02	<2	4	14
CC136650		<10	<1	0.04	10	0.09	89	1	0.02	7	300	12	0.01	<2	1	9
CC136651		10	<1	0.14	30	0.81	421	3	0.02	25	530	10	0.02	<2	6	26
CC136652		10	<1	0.07	10	0.62	234	3	0.02	19	600	17	0.03	<2	3	17
CC136653		10	<1	0.03	10	0.14	180	3	0.01	6	180	18	0.02	<2	2	10
CC136654		10	<1	0.05	10	0.52	199	3	0.02	20	630	9	0.02	<2	4	26
CC136655		10	<1	0.06	20	0.55	257	3	0.02	20	640	10	0.02	<2	5	27
CC136656		10	<1	0.06	20	0.65	313	3	0.01	23	500	9	0.02	<2	5	27
CC136657		10	<1	0.08	10	0.64	290	3	0.01	25	230	11	0.02	<2	5	19
CC136658		10	<1	0.10	20	0.55	479	3	0.01	22	490	16	0.02	<2	5	19
CC136659		10	<1	0.07	10	0.62	579	3	0.01	30	440	14	0.02	<2	5	21
CC136660		10	<1	0.06	10	0.55	384	3	0.01	21	390	11	0.02	<2	3	18
CC136661		10	<1	0.06	10	0.56	412	3	0.02	26	360	11	0.02	<2	5	23
CC136662		10	<1	0.11	30	0.75	502	3	0.02	33	610	11	0.02	<2	6	27
CC136663		10	<1	0.05	20	0.52	240	2	0.02	21	470	9	0.02	<2	5	27
CC136664		10	<1	0.13	30	0.98	506	3	0.02	26	650	10	0.03	<2	6	24
CC136665		10	<1	0.14	30	0.79	269	3	0.02	19	740	12	0.03	<2	5	27
CC136666		10	<1	0.16	20	0.92	342	3	0.02	20	630	13	0.03	<2	4	27
CC136667		10	<1	0.35	20	1.32	649	3	0.01	33	690	21	0.02	<2	6	28

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC144688		<20	0.10	<10	<10	85	<10	57
CC144689		<20	0.12	<10	<10	59	<10	50
CC144690		<20	0.11	<10	<10	56	<10	51
CC136631		<20	0.18	<10	<10	96	<10	64
CC136632		<20	0.13	<10	<10	65	<10	60
CC136633		<20	0.11	<10	<10	56	<10	55
CC136634		<20	0.13	<10	<10	66	<10	66
CC136635		<20	0.16	<10	<10	76	<10	56
CC136636		<20	0.13	<10	<10	66	<10	62
CC136637		<20	0.12	<10	<10	69	<10	55
CC136638		<20	0.08	<10	<10	58	<10	57
CC136639		<20	0.08	<10	<10	47	<10	47
CC136640		<20	0.10	<10	<10	62	<10	85
CC136641		<20	0.08	<10	<10	49	<10	54
CC136642		<20	0.07	<10	<10	50	<10	53
CC136643		<20	0.07	<10	<10	49	<10	55
CC136644		<20	0.09	<10	<10	58	<10	58
CC136645		<20	0.02	<10	<10	26	<10	24
CC136646		<20	0.02	<10	<10	19	<10	10
CC136647		<20	0.12	<10	<10	85	<10	74
CC136648		<20	0.10	<10	<10	91	<10	48
CC136649		<20	0.11	<10	<10	90	<10	58
CC136650		<20	0.03	<10	<10	35	<10	28
CC136651		<20	0.12	<10	<10	65	<10	57
CC136652		<20	0.13	<10	<10	58	<10	54
CC136653		<20	0.11	<10	<10	67	<10	27
CC136654		<20	0.10	<10	<10	60	<10	55
CC136655		<20	0.10	<10	<10	64	<10	56
CC136656		<20	0.12	<10	<10	59	<10	53
CC136657		<20	0.12	<10	<10	67	<10	59
CC136658		<20	0.12	<10	<10	72	<10	67
CC136659		<20	0.12	<10	<10	81	<10	73
CC136660		<20	0.10	<10	<10	63	<10	53
CC136661		<20	0.12	<10	<10	73	<10	60
CC136662		<20	0.12	<10	<10	62	<10	62
CC136663		<20	0.10	<10	<10	56	<10	53
CC136664		<20	0.13	<10	<10	65	<10	60
CC136665		<20	0.12	<10	<10	66	<10	53
CC136666		<20	0.13	<10	<10	62	<10	60
CC136667		<20	0.15	<10	<10	68	<10	67

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

Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC136668		0.20	<0.001	0.2	2.10	9	<10	70	<0.5	<2	0.19	<0.5	11	45	14	3.26
CC136669		0.13	<0.001	<0.2	1.71	6	<10	160	0.6	<2	0.42	<0.5	12	39	16	2.43
CC136670		0.17	0.003	<0.2	2.63	6	<10	140	0.9	<2	0.77	<0.5	18	79	21	3.44

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Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136668		10	<1	0.08	10	0.85	271	3	0.01	22	430	19	0.02	<2	3	16
CC136669		10	<1	0.12	20	0.66	564	3	0.02	20	550	15	0.03	<2	5	25
CC136670		10	<1	0.47	20	2.03	699	3	0.02	46	800	8	0.02	<2	4	33

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC136668		<20	0.14	<10	<10	77	<10	54
CC136669		<20	0.09	<10	<10	58	<10	56
CC136670		<20	0.18	<10	<10	75	<10	69

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

Finalized Date: 30- JUL- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11141042

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

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 4- AUG- 2011
Account: F

CERTIFICATE WH11144996

Project: Arcus - Danman - Prospects - 4

P.O. No.:

This report is for 30 Rock samples submitted to our lab in Whitehorse, YT, Canada on 30- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 4- AUG- 2011
Account: F

Project: Arcus - Danman - Prospects - 4

CERTIFICATE OF ANALYSIS WH11144996

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I079871		0.32	<0.005	0.2	0.57	6	<10	30	0.5	2	0.87	<0.5	4	5	13	2.30
I079872		0.33	<0.005	0.2	0.41	<2	<10	40	0.7	<2	2.41	<0.5	5	3	8	2.04
I079873		0.12	<0.005	<0.2	0.40	2	<10	90	0.8	<2	0.62	<0.5	3	9	2	1.85
I079874		0.10	<0.005	<0.2	0.97	<2	<10	40	0.5	<2	1.90	<0.5	6	3	7	2.80
I079875		0.24	<0.005	0.3	1.78	4	<10	60	1.6	<2	5.70	<0.5	27	78	32	4.62
I079876		0.19	0.005	<0.2	0.68	24	<10	40	0.5	2	0.05	<0.5	1	2	2	1.05
I079877		0.34	<0.005	<0.2	0.28	<2	<10	60	<0.5	2	0.07	<0.5	2	3	1	0.83
I079878		0.55	0.091	<0.2	0.26	22	<10	30	0.7	<2	0.04	<0.5	1	3	1	0.86
I079879		0.05	0.011	0.2	2.02	293	10	80	2.1	<2	0.05	<0.5	9	54	4	2.78
I079880		0.25	<0.005	<0.2	0.21	2	<10	10	<0.5	<2	0.02	<0.5	<1	3	1	0.39
I079881		0.13	0.049	<0.2	0.84	726	<10	70	2.4	<2	0.04	0.6	12	18	18	6.62
I079882		0.06	0.007	<0.2	0.82	159	<10	110	1.0	<2	0.02	<0.5	1	6	3	2.75
I079883		0.10	<0.005	<0.2	0.66	12	<10	40	<0.5	<2	0.46	<0.5	2	5	10	1.13
I079884		0.43	<0.005	<0.2	0.16	<2	<10	10	<0.5	<2	0.03	<0.5	1	2	3	0.45
I079885		0.31	<0.005	<0.2	0.22	4	<10	30	<0.5	<2	0.02	<0.5	1	4	4	0.44
I079886		0.15	0.113	<0.2	0.42	553	<10	220	1.0	<2	0.03	2.1	1	7	2	1.47
I079887		0.14	0.006	<0.2	0.52	98	<10	30	1.4	<2	0.01	<0.5	2	7	4	1.99
I079888		0.25	<0.005	<0.2	0.38	12	<10	60	0.7	<2	0.03	<0.5	2	3	2	0.93
I079889		0.07	0.005	<0.2	1.44	215	<10	40	1.2	<2	0.01	0.8	2	10	4	2.72
I079890		0.25	<0.005	<0.2	0.34	3	<10	40	<0.5	<2	0.03	<0.5	2	2	1	0.35
I079891		0.42	<0.005	<0.2	0.13	<2	<10	10	<0.5	<2	<0.01	<0.5	<1	3	1	0.30
I079892		0.09	0.005	<0.2	0.70	64	<10	60	1.0	<2	0.01	<0.5	1	4	1	1.52
I079893		0.48	<0.005	0.2	0.26	12	<10	30	0.6	<2	0.01	<0.5	1	2	1	0.84
I079894		0.32	0.885	<0.2	0.25	8	<10	20	<0.5	<2	0.01	<0.5	1	1	3	1.19
I079895		0.30	<0.005	<0.2	0.16	22	<10	20	<0.5	<2	0.28	<0.5	1	6	3	0.46
I079896		0.45	0.044	<0.2	0.23	25	<10	30	<0.5	<2	0.05	<0.5	1	4	1	0.87
I079897		0.20	0.011	<0.2	0.44	13	<10	100	0.7	<2	0.09	<0.5	3	5	2	1.29
I079898		0.22	0.005	<0.2	0.27	<2	<10	20	<0.5	<2	0.02	<0.5	<1	5	1	0.26
I079899		0.12	0.005	0.2	0.51	<2	<10	190	0.5	<2	1.79	<0.5	4	4	3	2.71
I079900		0.11	0.010	<0.2	0.37	2	<10	40	<0.5	<2	0.26	<0.5	2	5	1	1.19

ALS Canada Ltd.
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 4- AUG- 2011
Account: F

Project: Arcus - Danman - Prospects - 4

CERTIFICATE OF ANALYSIS WH11144996

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I079871		<10	<1	0.10	<10	0.23	182	<1	0.05	4	600	3	0.01	<2	9	21
I079872		<10	<1	0.16	<10	0.16	272	1	0.04	4	520	3	0.01	<2	8	36
I079873		<10	<1	0.29	40	0.05	261	<1	0.05	3	160	6	<0.01	<2	1	19
I079874		<10	1	0.34	<10	0.44	451	1	0.12	3	480	3	0.21	<2	8	28
I079875		<10	<1	0.86	10	2.96	915	<1	0.03	29	930	5	0.08	<2	10	126
I079876		<10	<1	0.08	30	0.02	161	<1	<0.01	2	80	5	<0.01	<2	1	14
I079877		<10	<1	0.05	30	0.04	266	<1	0.07	2	160	3	<0.01	<2	1	10
I079878		<10	<1	0.16	20	0.02	71	<1	<0.01	2	110	9	<0.01	<2	1	14
I079879		10	<1	0.20	10	0.05	87	3	<0.01	24	400	27	0.01	3	7	16
I079880		<10	<1	0.08	10	0.01	31	<1	0.03	<1	70	2	0.01	<2	<1	4
I079881		<10	<1	0.04	10	0.05	228	5	<0.01	33	350	126	0.01	8	4	30
I079882		<10	<1	0.16	10	0.01	59	2	0.01	6	230	55	0.01	3	2	12
I079883		<10	<1	0.23	20	0.11	103	<1	0.07	2	200	10	<0.01	<2	1	108
I079884		<10	<1	0.07	<10	0.01	43	<1	0.08	<1	80	4	<0.01	<2	<1	5
I079885		<10	<1	0.08	10	0.01	33	<1	0.03	1	70	5	<0.01	<2	2	6
I079886		<10	<1	0.17	10	0.01	41	1	<0.01	2	120	111	0.01	7	1	96
I079887		<10	<1	0.06	10	0.01	47	<1	<0.01	4	150	7	0.01	<2	1	8
I079888		<10	<1	0.12	20	0.03	92	<1	0.02	2	90	4	0.01	<2	1	7
I079889		<10	<1	0.10	10	0.02	73	1	<0.01	3	180	15	0.01	2	4	21
I079890		<10	<1	0.18	40	0.02	49	<1	0.03	1	170	3	0.01	<2	<1	7
I079891		<10	<1	0.04	10	<0.01	29	<1	0.06	<1	30	3	<0.01	<2	<1	4
I079892		<10	<1	0.15	10	0.01	191	<1	0.02	<1	90	14	<0.01	<2	1	11
I079893		<10	<1	0.05	20	0.01	77	<1	0.02	<1	60	8	<0.01	<2	<1	6
I079894		<10	<1	0.03	40	0.02	82	<1	0.09	<1	90	2	<0.01	<2	3	7
I079895		<10	<1	0.04	30	0.01	72	<1	0.06	1	100	2	0.01	<2	1	8
I079896		<10	<1	0.06	30	0.02	160	<1	0.05	1	180	3	<0.01	<2	1	8
I079897		<10	<1	0.14	30	0.01	621	<1	<0.01	3	170	6	<0.01	<2	3	6
I079898		<10	<1	0.12	10	0.01	34	<1	0.04	<1	40	<2	<0.01	<2	<1	6
I079899		<10	<1	0.28	<10	0.22	490	1	0.07	1	300	2	0.15	<2	4	30
I079900		<10	<1	0.17	<10	0.06	171	<1	0.09	<1	70	<2	0.01	<2	3	11

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VANCOUVER BC V6B 1L8

Finalized Date: 4- AUG- 2011
Account: F

Project: Arcus - Danman - Prospects - 4

CERTIFICATE OF ANALYSIS WH11144996

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
I079871		<20	0.02	<10	<10	3	<10	14
I079872		<20	0.01	<10	<10	4	<10	13
I079873		30	0.03	<10	<10	12	<10	10
I079874		<20	0.04	<10	<10	26	<10	19
I079875		<20	0.05	<10	<10	60	<10	68
I079876		40	<0.01	<10	40	2	<10	3
I079877		40	<0.01	<10	<10	4	<10	12
I079878		20	<0.01	<10	10	3	<10	14
I079879		<20	0.01	<10	30	48	<10	17
I079880		20	<0.01	<10	<10	1	<10	5
I079881		30	<0.01	<10	50	74	10	19
I079882		20	<0.01	<10	40	20	<10	16
I079883		30	0.02	<10	<10	10	<10	8
I079884		40	<0.01	<10	<10	2	<10	4
I079885		30	<0.01	<10	<10	4	<10	10
I079886		<20	<0.01	<10	70	3	<10	189
I079887		20	<0.01	<10	20	13	<10	59
I079888		20	<0.01	<10	<10	4	<10	19
I079889		30	0.01	<10	10	18	<10	191
I079890		30	<0.01	<10	<10	2	<10	12
I079891		20	<0.01	<10	<10	1	<10	3
I079892		40	<0.01	<10	20	3	<10	7
I079893		30	<0.01	<10	<10	2	<10	14
I079894		30	<0.01	<10	<10	3	<10	8
I079895		30	<0.01	<10	<10	2	<10	11
I079896		20	<0.01	<10	<10	2	<10	11
I079897		30	<0.01	<10	<10	2	<10	26
I079898		30	<0.01	<10	<10	1	<10	4
I079899		<20	0.01	<10	<10	20	<10	20
I079900		<20	<0.01	<10	<10	2	<10	16

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 14- AUG- 2011
Account: F

CERTIFICATE WH11144997

Project: Arcus- Danman- Soils 4

P.O. No.:

This report is for 230 Soil samples submitted to our lab in Whitehorse, YT, Canada on 30- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 14- AUG- 2011
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Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC136691		0.20	0.005	<0.2	2.50	8	<10	230	0.9	<2	0.66	<0.5	15	65	38	3.59
CC136692		0.20	0.003	<0.2	2.33	9	<10	240	0.7	<2	0.55	<0.5	16	54	31	3.42
CC136693		0.32	0.003	<0.2	2.32	9	<10	160	<0.5	<2	0.38	<0.5	13	44	16	3.31
CC136694		0.37	0.003	<0.2	1.86	8	<10	150	<0.5	<2	0.33	<0.5	11	37	17	2.79
CC136695		0.28	0.005	<0.2	2.39	9	<10	100	0.5	<2	0.18	<0.5	10	42	15	3.41
CC136696		0.18	0.002	<0.2	1.85	4	<10	130	0.5	<2	0.29	<0.5	9	36	16	2.74
CC136697		0.18	0.002	<0.2	1.48	9	<10	70	<0.5	<2	0.11	<0.5	6	25	10	2.68
CC136698		0.34	0.005	<0.2	2.16	11	<10	140	0.5	<2	0.32	<0.5	8	38	22	2.79
CC136699		0.26	0.002	0.2	2.22	5	<10	130	0.7	<2	0.31	<0.5	11	52	19	3.01
CC136700		0.18	0.004	<0.2	2.36	10	<10	120	0.5	<2	0.18	<0.5	9	31	17	3.21
CC136701		0.30	0.004	<0.2	2.31	8	<10	190	0.9	<2	0.34	<0.5	13	54	26	3.23
CC136702		0.13	0.002	0.2	0.43	2	<10	40	<0.5	<2	0.06	<0.5	5	10	6	0.98
CC136703		0.17	0.003	0.3	2.32	7	<10	220	1.0	<2	0.71	<0.5	14	54	24	3.48
CC136704		0.22	0.006	0.2	2.19	6	<10	170	0.9	<2	1.26	<0.5	14	89	26	3.03
CC136705		0.13	0.017	0.3	2.35	6	<10	150	1.0	<2	0.88	<0.5	17	80	30	3.23
CC136706		0.10	0.005	<0.2	1.99	10	<10	130	0.6	<2	0.80	<0.5	15	60	18	2.98
CC136707		0.25	0.003	0.3	2.10	5	<10	180	0.7	<2	0.62	<0.5	11	49	25	2.81
CC136708		0.12	0.005	0.2	1.57	5	<10	140	0.6	<2	0.92	<0.5	9	32	26	2.00
CC136709		0.20	0.002	0.2	2.64	6	<10	170	0.9	<2	0.57	<0.5	16	63	23	3.46
CC136710		0.11	0.002	<0.2	0.87	3	<10	60	<0.5	<2	0.14	<0.5	5	31	13	1.47
CC136711		0.19	<0.001	<0.2	3.35	4	<10	90	0.7	2	0.19	<0.5	20	196	24	3.81
CC136712		0.33	0.003	<0.2	2.39	4	<10	150	0.6	<2	0.37	<0.5	13	61	21	3.21
CC136713		0.27	0.005	0.2	1.93	5	<10	160	<0.5	<2	0.44	<0.5	11	45	15	2.93
CC136714		0.13	0.004	0.5	2.38	4	<10	280	0.8	<2	0.76	<0.5	12	49	28	3.04
CC136715		0.29	0.025	0.2	2.07	8	<10	160	0.8	2	0.43	<0.5	13	53	19	3.06
CC136716		0.13	0.003	0.3	1.93	5	<10	180	0.7	<2	0.44	<0.5	9	43	20	2.71
CC136717		0.12	0.003	0.2	1.57	9	<10	140	0.7	<2	0.27	<0.5	9	43	18	2.64
CC136718		0.13	0.014	<0.2	2.36	14	<10	130	1.2	<2	0.51	<0.5	15	141	16	3.85
CC136719		0.19	0.037	0.2	2.23	40	<10	210	1.4	<2	0.43	<0.5	14	110	19	3.98
CC136720		0.09	0.017	<0.2	0.81	6	<10	50	<0.5	<2	0.11	<0.5	4	20	8	1.48
CC136671		0.12	0.003	<0.2	1.58	6	<10	40	<0.5	<2	0.17	<0.5	8	38	11	2.57
CC136672		0.13	0.004	0.2	1.97	4	<10	130	0.5	<2	0.50	<0.5	19	50	13	2.82
CC136673		0.21	0.002	<0.2	1.82	5	<10	100	0.5	<2	0.49	<0.5	13	47	12	2.78
CC136674		0.12	0.006	<0.2	2.08	5	<10	150	0.5	<2	0.68	<0.5	13	53	17	2.96
CC136675		0.35	0.007	0.2	1.88	8	<10	150	0.5	<2	0.31	<0.5	9	32	19	2.60
CC136676		0.29	0.008	0.2	1.90	7	<10	200	0.6	<2	0.36	<0.5	8	32	21	2.33
CC136677		0.14	0.005	0.2	1.67	8	<10	120	<0.5	<2	0.27	<0.5	6	27	13	2.20
CC136678		0.32	0.005	0.2	1.80	10	<10	170	0.5	<2	0.29	<0.5	7	28	16	2.78
CC136679		0.13	0.011	<0.2	1.54	10	<10	120	<0.5	<2	0.26	<0.5	9	28	10	2.59
CC136680		0.14	0.003	<0.2	1.76	10	<10	140	<0.5	<2	0.22	<0.5	13	31	14	2.65

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136691		10	<1	0.22	30	1.11	467	<1	0.02	39	710	10	0.01	<2	8	30
CC136692		10	<1	0.08	20	0.93	953	<1	0.02	33	740	9	0.02	<2	7	31
CC136693		10	<1	0.08	10	0.75	427	<1	0.01	24	520	10	<0.01	<2	4	23
CC136694		10	<1	0.06	10	0.70	362	<1	0.02	22	430	8	0.01	<2	4	23
CC136695		10	1	0.14	10	0.82	305	<1	0.01	21	290	15	0.01	<2	5	16
CC136696		10	<1	0.07	10	0.61	253	1	0.02	19	220	8	0.02	<2	4	22
CC136697		10	<1	0.04	10	0.29	319	1	0.01	11	310	13	0.02	<2	2	13
CC136698		10	<1	0.06	20	0.57	221	<1	0.02	20	490	10	0.01	<2	5	25
CC136699		10	1	0.14	30	0.94	266	<1	0.02	25	400	8	0.02	<2	5	24
CC136700		10	<1	0.04	10	0.40	268	1	0.02	20	420	9	0.02	<2	3	16
CC136701		10	<1	0.13	30	0.99	486	<1	0.02	31	390	9	0.01	<2	7	26
CC136702		<10	<1	0.05	<10	0.14	980	<1	0.02	4	210	4	0.02	<2	1	7
CC136703		10	1	0.18	30	1.10	648	<1	0.02	34	580	11	0.03	<2	8	30
CC136704		10	<1	0.40	30	1.49	553	<1	0.02	42	720	11	0.05	<2	5	33
CC136705		10	<1	0.41	50	1.42	574	<1	0.02	42	630	10	0.04	<2	7	28
CC136706		10	<1	0.32	20	1.16	615	<1	0.03	30	730	7	0.04	<2	4	31
CC136707		10	<1	0.13	30	0.91	367	<1	0.03	27	720	9	0.04	<2	5	32
CC136708		<10	<1	0.08	50	0.49	318	<1	0.03	16	750	8	0.06	<2	3	31
CC136709		10	<1	0.32	30	1.41	634	<1	0.02	34	640	11	0.02	<2	4	29
CC136710		<10	<1	0.09	10	0.44	125	<1	0.02	14	250	5	0.02	<2	1	12
CC136711		10	1	0.48	<10	3.15	656	<1	0.01	85	420	6	0.01	<2	4	11
CC136712		10	1	0.18	20	1.24	401	<1	0.02	32	550	8	0.02	<2	4	22
CC136713		10	<1	0.11	10	0.87	534	<1	0.02	22	460	9	0.02	<2	4	24
CC136714		10	<1	0.17	40	0.84	613	<1	0.02	26	780	10	0.07	<2	5	36
CC136715		10	<1	0.14	30	0.91	504	<1	0.02	28	710	15	0.02	<2	6	24
CC136716		10	<1	0.11	20	0.75	327	<1	0.02	23	600	47	0.03	<2	5	26
CC136717		10	<1	0.22	20	0.66	313	1	0.02	23	580	24	0.03	<2	5	21
CC136718		10	<1	0.21	10	1.63	406	1	0.02	55	890	14	0.02	2	8	25
CC136719		10	<1	0.23	20	1.02	350	<1	0.02	48	710	16	0.02	<2	9	28
CC136720		10	<1	0.03	10	0.21	91	<1	0.02	10	190	5	0.02	<2	2	12
CC136671		10	<1	0.06	10	0.84	217	<1	0.02	20	190	5	0.02	<2	3	15
CC136672		10	<1	0.16	30	1.07	663	<1	0.02	28	620	7	0.04	<2	4	26
CC136673		10	<1	0.17	20	1.05	461	<1	0.02	27	810	7	0.02	<2	4	24
CC136674		10	<1	0.14	20	1.13	452	<1	0.03	27	620	7	0.03	<2	5	31
CC136675		10	<1	0.05	20	0.52	222	<1	0.02	19	490	10	0.01	<2	4	22
CC136676		10	<1	0.05	20	0.52	190	<1	0.02	20	500	9	0.01	<2	5	27
CC136677		10	<1	0.04	10	0.44	149	<1	0.02	16	490	8	0.02	<2	3	20
CC136678		10	<1	0.04	20	0.46	177	<1	0.02	17	620	9	0.02	<2	4	24
CC136679		<10	<1	0.07	10	0.47	331	<1	0.02	15	530	6	0.02	<2	3	19
CC136680		10	<1	0.04	10	0.50	499	1	0.02	20	540	13	0.03	<2	3	19

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC136691		<20	0.16	<10	<10	81	<10	71
CC136692		<20	0.14	<10	<10	76	<10	69
CC136693		<20	0.14	<10	<10	77	<10	65
CC136694		<20	0.12	<10	<10	60	<10	51
CC136695		<20	0.12	<10	<10	74	<10	52
CC136696		<20	0.11	<10	<10	62	<10	44
CC136697		<20	0.09	<10	<10	66	<10	33
CC136698		<20	0.11	<10	<10	60	<10	47
CC136699		<20	0.13	<10	<10	62	<10	40
CC136700		<20	0.10	<10	<10	75	<10	53
CC136701		<20	0.13	<10	<10	69	<10	58
CC136702		<20	0.05	<10	<10	27	<10	37
CC136703		<20	0.12	<10	<10	70	<10	65
CC136704		<20	0.13	<10	<10	65	<10	59
CC136705		<20	0.13	<10	<10	66	<10	62
CC136706		<20	0.13	<10	<10	66	<10	58
CC136707		<20	0.12	<10	<10	59	<10	55
CC136708		<20	0.07	<10	<10	39	<10	34
CC136709		<20	0.16	<10	<10	73	<10	60
CC136710		<20	0.08	<10	<10	37	<10	24
CC136711		<20	0.20	<10	<10	76	<10	52
CC136712		<20	0.15	<10	<10	68	<10	55
CC136713		<20	0.13	<10	<10	65	<10	54
CC136714		<20	0.10	<10	<10	60	<10	56
CC136715		<20	0.12	<10	<10	64	<10	60
CC136716		<20	0.10	<10	<10	61	<10	71
CC136717		<20	0.10	<10	<10	62	<10	84
CC136718		<20	0.14	<10	<10	86	<10	71
CC136719		<20	0.11	<10	<10	70	<10	67
CC136720		<20	0.07	<10	<10	41	<10	25
CC136671		<20	0.13	<10	<10	64	<10	39
CC136672		<20	0.12	<10	<10	60	<10	60
CC136673		<20	0.12	<10	<10	58	<10	56
CC136674		<20	0.13	<10	<10	63	<10	64
CC136675		<20	0.11	<10	<10	58	<10	54
CC136676		<20	0.11	<10	<10	61	<10	52
CC136677		<20	0.08	<10	<10	53	<10	46
CC136678		<20	0.08	<10	<10	59	<10	48
CC136679		<20	0.09	<10	<10	56	<10	45
CC136680		<20	0.07	<10	<10	60	<10	58

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CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136681		0.12	0.003	<0.2	1.61	7	<10	110	<0.5	<2	0.17	<0.5	9	27	10	2.30
CC136682		0.14	0.002	<0.2	1.67	7	<10	140	<0.5	<2	0.21	<0.5	14	27	10	2.48
CC136683		0.19	0.004	0.2	1.63	7	<10	120	<0.5	<2	0.19	<0.5	9	28	11	2.54
CC136684		0.12	0.007	<0.2	1.58	6	<10	160	0.5	<2	0.34	<0.5	8	30	13	2.22
CC136685		0.14	0.017	<0.2	2.59	19	<10	120	0.8	<2	0.15	<0.5	13	85	23	4.22
CC136686		0.28	0.003	0.2	2.58	11	<10	260	1.5	<2	0.57	<0.5	18	93	23	4.20
CC136687		0.17	0.007	0.2	1.41	4	<10	130	<0.5	<2	0.21	<0.5	7	28	11	1.95
CC136688		0.10	0.007	<0.2	2.11	3	<10	140	<0.5	<2	0.36	<0.5	8	43	17	2.96
CC136689		0.23	0.004	0.2	2.29	7	<10	180	0.7	<2	0.47	<0.5	13	56	22	3.25
CC136690		0.16	0.002	0.2	2.37	5	<10	120	0.7	<2	0.41	<0.5	13	60	22	3.19
CC136721		0.10	0.003	<0.2	0.86	7	<10	60	<0.5	<2	0.13	<0.5	4	19	10	1.74
CC136722		0.13	0.005	<0.2	2.48	9	<10	110	1.1	<2	0.31	<0.5	14	70	21	3.70
CC136723		0.09	0.002	0.2	1.74	8	<10	190	<0.5	<2	0.35	<0.5	10	31	12	2.20
CC136724		0.13	0.005	0.2	1.71	7	<10	150	<0.5	<2	0.26	<0.5	10	28	11	2.31
CC136725		0.15	0.003	0.2	1.77	6	<10	150	<0.5	<2	0.27	<0.5	20	29	10	2.57
CC136726		0.06	0.008	0.2	1.54	6	<10	140	<0.5	<2	0.26	<0.5	7	24	10	2.21
CC136727		0.09	NSS	0.4	0.94	5	<10	120	<0.5	<2	0.22	<0.5	3	21	15	1.67
CC136728		0.08	NSS	0.3	1.70	4	<10	160	<0.5	<2	0.22	<0.5	6	30	13	1.94
CC136729		0.15	0.010	<0.2	1.62	5	<10	120	<0.5	<2	0.28	<0.5	8	27	12	1.99
CC136730		0.10	0.003	<0.2	1.62	9	<10	130	<0.5	<2	0.26	<0.5	7	28	11	2.21
CC136731		0.17	0.009	0.2	1.67	9	<10	140	0.5	<2	0.27	<0.5	7	28	10	2.34
CC136732		0.18	0.008	<0.2	2.05	11	<10	170	0.7	<2	0.33	<0.5	8	32	21	2.82
CC136733		0.16	0.003	<0.2	1.74	5	<10	140	<0.5	<2	0.32	<0.5	6	28	11	2.17
CC136734		0.23	0.004	0.2	1.86	6	<10	170	0.5	<2	0.34	<0.5	7	30	17	2.39
CC136735		0.10	0.006	<0.2	1.61	6	<10	120	<0.5	<2	0.27	<0.5	6	27	14	2.37
CC136736		0.10	0.003	0.2	1.91	8	<10	170	<0.5	<2	0.27	<0.5	27	29	11	2.93
CC136737		0.28	0.001	0.2	1.81	9	<10	140	<0.5	<2	0.23	<0.5	13	31	20	2.53
CC136738		0.30	0.008	<0.2	1.67	10	<10	130	<0.5	<2	0.22	<0.5	12	28	10	2.52
CC136739		0.10	0.007	0.2	1.95	6	<10	170	<0.5	<2	0.24	<0.5	9	31	10	2.36
CC136740		0.13	0.001	<0.2	1.78	8	<10	120	<0.5	<2	0.22	<0.5	12	29	9	2.47
CC136741		0.15	0.009	<0.2	1.52	7	<10	120	<0.5	<2	0.23	<0.5	7	29	9	2.16
CC136742		0.19	0.002	<0.2	1.50	5	<10	120	<0.5	<2	0.23	<0.5	8	28	10	2.10
CC136743		0.14	0.001	<0.2	1.20	5	<10	70	<0.5	<2	0.20	<0.5	5	21	6	1.57
CC136744		0.15	0.004	<0.2	1.29	7	<10	80	<0.5	<2	0.20	<0.5	6	23	8	1.89
CC136745		0.18	0.002	<0.2	1.08	5	<10	80	<0.5	<2	0.17	<0.5	5	21	8	1.64
CC136746		0.13	0.001	<0.2	1.27	7	<10	80	<0.5	<2	0.18	<0.5	6	25	9	1.90
CC136747		0.18	0.001	<0.2	1.39	5	<10	90	<0.5	<2	0.21	<0.5	6	27	9	1.94
CC136748		0.09	0.003	<0.2	1.39	4	<10	90	<0.5	2	0.22	<0.5	6	26	9	1.96
CC136749		0.20	0.001	<0.2	1.42	9	<10	100	<0.5	<2	0.21	<0.5	12	31	10	2.38
CC136750		0.03	NSS	0.2	1.61	8	<10	220	0.8	<2	2.23	<0.5	10	34	27	2.56

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136681		<10	<1	0.04	10	0.45	291	<1	0.02	14	440	9	0.03	<2	3	16
CC136682		<10	1	0.04	20	0.45	658	<1	0.02	14	500	8	0.03	<2	3	19
CC136683		10	<1	0.04	10	0.48	306	<1	0.02	14	520	9	0.04	<2	3	17
CC136684		<10	<1	0.05	10	0.51	242	<1	0.02	17	650	10	0.04	<2	4	26
CC136685		10	<1	0.10	20	1.35	363	1	0.02	36	300	19	0.01	2	8	14
CC136686		10	<1	0.50	40	1.86	730	<1	0.02	45	1000	26	0.01	<2	9	29
CC136687		10	1	0.08	10	0.34	479	1	0.02	13	470	8	0.02	<2	2	17
CC136688		10	<1	0.08	10	0.76	279	<1	0.02	22	420	7	0.02	<2	4	22
CC136689		10	<1	0.17	20	1.16	386	<1	0.02	28	500	7	<0.01	<2	5	25
CC136690		10	<1	0.17	20	1.24	335	<1	0.02	31	580	8	0.01	<2	5	24
CC136721		10	<1	0.05	10	0.20	114	<1	0.02	10	270	8	0.02	<2	2	11
CC136722		10	<1	0.15	30	1.35	445	<1	0.02	30	580	8	0.01	<2	7	19
CC136723		10	<1	0.05	20	0.43	436	<1	0.02	18	560	12	0.04	<2	4	28
CC136724		10	<1	0.04	10	0.48	323	<1	0.02	16	520	8	0.02	<2	3	22
CC136725		10	<1	0.04	10	0.50	869	<1	0.02	15	610	8	0.03	<2	3	23
CC136726		<10	1	0.04	10	0.41	182	<1	0.02	14	670	7	0.05	<2	2	22
CC136727		<10	<1	0.03	10	0.20	103	1	0.02	10	1310	6	0.11	<2	1	23
CC136728		10	<1	0.04	10	0.39	212	<1	0.02	15	780	10	0.05	<2	2	21
CC136729		<10	<1	0.04	10	0.47	291	<1	0.02	15	510	11	0.02	<2	3	20
CC136730		<10	<1	0.04	10	0.43	176	<1	0.02	14	670	11	0.04	<2	3	22
CC136731		<10	<1	0.05	20	0.39	180	<1	0.02	16	650	13	0.04	<2	3	22
CC136732		10	1	0.05	20	0.51	212	<1	0.02	18	570	11	0.01	<2	5	24
CC136733		<10	<1	0.04	10	0.46	148	<1	0.02	15	440	8	0.01	<2	4	24
CC136734		10	1	0.04	10	0.50	177	<1	0.02	17	510	8	0.01	<2	4	25
CC136735		<10	<1	0.04	10	0.40	146	<1	0.02	14	680	7	0.03	<2	3	21
CC136736		10	<1	0.05	10	0.48	1775	1	0.02	15	660	9	0.03	<2	3	23
CC136737		10	<1	0.06	10	0.50	655	<1	0.02	24	560	11	0.02	<2	3	19
CC136738		<10	<1	0.04	20	0.47	1085	<1	0.02	15	530	9	0.01	<2	3	18
CC136739		10	<1	0.04	10	0.53	279	<1	0.02	17	490	9	0.03	<2	4	21
CC136740		10	<1	0.05	10	0.54	789	<1	0.02	15	490	10	0.02	<2	3	18
CC136741		<10	1	0.05	10	0.50	211	<1	0.02	14	600	9	0.03	<2	3	21
CC136742		<10	<1	0.05	20	0.50	247	<1	0.02	14	470	10	0.03	<2	3	20
CC136743		<10	<1	0.04	10	0.35	148	<1	0.02	10	450	7	0.02	<2	2	15
CC136744		<10	<1	0.05	10	0.37	249	<1	0.02	11	470	9	0.03	<2	2	16
CC136745		<10	<1	0.04	10	0.32	123	<1	0.02	10	330	8	0.02	<2	2	14
CC136746		<10	<1	0.04	10	0.36	189	<1	0.01	14	460	9	0.03	<2	2	15
CC136747		<10	<1	0.04	10	0.45	148	<1	0.01	14	460	7	0.02	<2	3	16
CC136748		<10	1	0.04	10	0.42	183	<1	0.01	14	550	8	0.03	<2	3	17
CC136749		<10	<1	0.06	10	0.51	518	1	0.01	17	510	11	0.02	<2	3	16
CC136750		<10	<1	0.12	30	0.58	666	1	0.02	22	800	10	0.12	2	5	60

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC136681		<20	0.06	<10	<10	53	<10	48
CC136682		<20	0.07	<10	<10	54	<10	49
CC136683		<20	0.07	<10	<10	60	<10	50
CC136684		<20	0.07	<10	<10	46	<10	52
CC136685		<20	0.13	<10	<10	88	<10	76
CC136686		<20	0.14	<10	<10	83	<10	93
CC136687		<20	0.09	<10	<10	46	<10	40
CC136688		<20	0.12	<10	<10	64	<10	51
CC136689		<20	0.15	<10	<10	69	<10	52
CC136690		<20	0.16	<10	<10	68	<10	56
CC136721		<20	0.07	<10	<10	49	<10	31
CC136722		<20	0.15	<10	<10	86	<10	55
CC136723		<20	0.07	<10	<10	45	<10	65
CC136724		<20	0.07	<10	<10	53	<10	54
CC136725		<20	0.07	<10	<10	58	<10	57
CC136726		<20	0.06	<10	<10	48	<10	47
CC136727		<20	0.02	<10	<10	32	<10	28
CC136728		<20	0.05	<10	<10	38	<10	43
CC136729		<20	0.09	<10	<10	49	<10	48
CC136730		<20	0.07	<10	<10	55	<10	47
CC136731		<20	0.07	<10	<10	50	<10	49
CC136732		<20	0.10	<10	<10	60	<10	54
CC136733		<20	0.10	<10	<10	49	<10	47
CC136734		<20	0.10	<10	<10	57	<10	50
CC136735		<20	0.07	<10	<10	51	<10	44
CC136736		<20	0.07	<10	<10	62	<10	53
CC136737		<20	0.08	<10	<10	54	<10	54
CC136738		<20	0.08	<10	<10	54	<10	48
CC136739		<20	0.08	<10	<10	51	<10	56
CC136740		<20	0.08	<10	<10	63	<10	52
CC136741		<20	0.07	<10	<10	49	<10	48
CC136742		<20	0.08	<10	<10	47	<10	50
CC136743		<20	0.07	<10	<10	34	<10	36
CC136744		<20	0.08	<10	<10	46	<10	40
CC136745		<20	0.07	<10	<10	41	<10	35
CC136746		<20	0.07	<10	<10	46	<10	38
CC136747		<20	0.08	<10	<10	48	<10	44
CC136748		<20	0.07	<10	<10	43	<10	45
CC136749		<20	0.08	<10	<10	56	<10	52
CC136750		<20	0.06	<10	<10	48	<10	51

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144691		0.34	0.001	<0.2	2.12	5	<10	150	0.5	3	0.51	<0.5	10	49	19	2.78
CC144692		0.29	0.003	<0.2	2.11	6	<10	190	0.5	2	0.47	<0.5	11	47	24	2.86
CC144693		0.13	0.002	<0.2	2.09	6	<10	210	0.6	2	0.69	<0.5	13	42	24	2.81
CC144694		0.29	0.003	<0.2	1.70	4	<10	110	0.5	<2	0.48	<0.5	8	38	15	2.47
CC144695		0.20	0.003	<0.2	1.90	7	<10	150	0.5	2	0.46	<0.5	8	41	16	2.55
CC144696		0.33	0.004	<0.2	1.92	5	<10	160	0.5	2	0.48	<0.5	9	41	20	2.69
CC144697		0.29	0.004	<0.2	2.12	5	<10	160	0.7	2	0.48	<0.5	10	54	20	2.74
CC144698		0.12	0.002	0.2	1.41	4	<10	110	<0.5	<2	0.39	<0.5	7	40	18	2.17
CC144699		0.10	0.001	<0.2	1.28	8	<10	90	<0.5	3	0.22	<0.5	5	24	8	1.82
CC144700		0.21	0.002	<0.2	1.40	6	<10	90	<0.5	2	0.22	<0.5	5	26	9	2.10
CC144701		0.19	0.012	<0.2	1.43	10	<10	100	<0.5	<2	0.23	<0.5	8	26	10	2.31
CC144702		0.11	0.006	<0.2	1.31	6	<10	100	<0.5	<2	0.22	<0.5	6	24	10	1.92
CC144703		0.14	0.001	<0.2	1.50	6	<10	90	<0.5	2	0.18	<0.5	10	27	9	2.46
CC144704		0.23	0.001	<0.2	2.67	6	<10	150	1.0	2	0.51	<0.5	13	64	21	3.62
CC144705		0.19	0.003	<0.2	2.41	7	<10	70	0.5	<2	0.16	<0.5	9	61	17	3.70
CC144706		0.29	<0.001	<0.2	2.44	8	<10	140	1.0	2	0.35	<0.5	13	63	20	3.40
CC144707		0.32	0.003	<0.2	2.10	7	<10	170	0.7	<2	0.42	<0.5	9	49	27	2.77
CC144708		0.28	0.003	<0.2	2.11	9	<10	130	0.7	2	0.34	<0.5	9	43	23	2.78
CC144709		0.30	0.004	<0.2	2.28	9	<10	140	0.6	2	0.32	<0.5	10	43	20	2.99
CC144710		0.12	<0.001	<0.2	1.20	5	<10	60	<0.5	<2	0.09	<0.5	4	21	12	2.27
CC144711		0.27	0.003	<0.2	1.83	7	<10	170	<0.5	2	0.39	<0.5	8	34	14	2.41
CC144712		0.13	0.001	<0.2	1.86	7	<10	180	<0.5	2	0.49	<0.5	9	35	11	2.31
CC144713		0.24	<0.001	<0.2	1.55	7	<10	150	<0.5	<2	0.36	<0.5	9	29	12	2.30
CC144714		0.24	0.002	<0.2	1.90	6	<10	160	<0.5	<2	0.29	<0.5	8	34	12	2.20
CC144715		0.16	0.004	<0.2	1.57	6	<10	130	<0.5	<2	0.30	<0.5	9	29	10	2.29
CC144716		0.20	0.002	<0.2	1.90	7	<10	160	<0.5	3	0.26	<0.5	8	31	11	2.46
CC144717		0.13	0.001	<0.2	1.65	7	<10	130	<0.5	2	0.28	<0.5	8	26	9	2.21
CC144718		0.26	0.002	<0.2	1.68	10	<10	130	<0.5	2	0.27	<0.5	9	28	10	2.67
CC144719		0.16	0.002	<0.2	1.61	5	<10	140	<0.5	2	0.31	<0.5	8	28	9	2.21
CC144720		0.17	0.003	<0.2	1.47	7	<10	110	<0.5	2	0.27	<0.5	8	29	9	2.09
CC144821		0.25	0.008	<0.2	1.71	11	<10	200	0.6	<2	0.37	<0.5	9	33	27	2.53
CC144822		0.31	0.003	<0.2	2.00	11	<10	200	0.6	<2	0.41	<0.5	11	39	27	2.88
CC144823		0.27	0.003	<0.2	1.97	13	<10	190	0.5	<2	0.40	<0.5	9	36	22	2.67
CC144824		0.11	0.004	<0.2	2.19	9	<10	220	<0.5	<2	0.35	<0.5	11	38	19	3.16
CC144825		0.17	0.001	<0.2	1.90	10	<10	180	<0.5	<2	0.37	<0.5	9	33	16	2.62
CC144826		0.10	0.001	<0.2	1.76	9	<10	180	<0.5	<2	0.41	<0.5	15	35	12	2.64
CC144827		0.15	0.002	<0.2	1.90	10	<10	180	<0.5	<2	0.36	<0.5	10	36	12	2.59
CC144828		0.09	0.002	<0.2	1.90	9	<10	180	<0.5	<2	0.34	<0.5	11	43	13	2.55
CC144829		0.19	0.005	<0.2	1.73	12	<10	170	<0.5	<2	0.31	<0.5	10	37	12	2.59
CC144830		0.18	0.003	<0.2	1.70	11	<10	150	<0.5	<2	0.26	<0.5	19	35	11	2.68

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CERTIFICATE OF ANALYSIS WH11144997

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144691		10	<1	0.16	10	1.02	332	<1	0.01	27	600	7	0.01	<2	4	25
CC144692		10	1	0.12	20	0.89	322	<1	0.02	28	610	8	0.01	<2	5	28
CC144693		<10	<1	0.08	20	0.75	563	<1	0.02	27	650	8	0.03	<2	5	33
CC144694		<10	1	0.12	20	0.73	368	<1	0.01	20	610	9	0.01	<2	4	26
CC144695		10	1	0.09	10	0.75	281	<1	0.02	23	480	9	0.01	<2	4	27
CC144696		10	1	0.07	20	0.80	288	<1	0.01	25	580	7	<0.01	<2	5	29
CC144697		10	<1	0.22	20	1.02	314	<1	0.01	30	640	6	<0.01	<2	5	26
CC144698		10	1	0.28	10	0.70	359	1	0.02	22	390	8	0.02	<2	3	23
CC144699		<10	<1	0.04	10	0.41	148	<1	0.01	12	440	7	0.03	<2	2	17
CC144700		<10	<1	0.04	10	0.42	202	<1	0.01	14	520	7	0.02	<2	2	16
CC144701		<10	<1	0.04	10	0.43	395	1	0.01	14	550	8	0.02	<2	2	17
CC144702		<10	<1	0.04	10	0.38	191	<1	0.01	13	530	8	0.03	<2	2	18
CC144703		10	<1	0.04	10	0.45	588	1	0.01	14	480	8	0.02	<2	3	15
CC144704		10	1	0.51	20	1.84	644	<1	0.01	35	860	28	<0.01	<2	4	27
CC144705		10	1	0.09	10	0.96	288	<1	0.01	30	410	15	0.02	<2	4	14
CC144706		10	<1	0.34	20	1.21	657	<1	0.01	34	680	15	0.01	<2	5	22
CC144707		10	<1	0.17	20	0.81	288	<1	0.02	25	410	9	<0.01	<2	7	27
CC144708		10	<1	0.10	30	0.76	332	<1	0.01	24	460	12	0.01	<2	6	25
CC144709		10	1	0.09	20	0.81	349	<1	0.01	25	490	10	0.01	<2	5	23
CC144710		10	1	0.04	10	0.22	216	1	0.01	10	290	13	0.01	<2	2	10
CC144711		10	<1	0.06	20	0.53	333	<1	0.01	19	660	12	0.02	<2	4	26
CC144712		10	<1	0.06	20	0.55	343	<1	0.02	19	650	10	0.04	<2	4	32
CC144713		<10	1	0.05	10	0.48	433	<1	0.02	17	640	8	0.03	<2	4	25
CC144714		10	<1	0.05	10	0.54	177	<1	0.01	19	460	9	0.02	<2	4	22
CC144715		<10	1	0.04	10	0.50	314	<1	0.01	16	590	7	0.02	2	3	21
CC144716		10	<1	0.05	10	0.52	178	<1	0.02	18	590	10	0.03	<2	4	21
CC144717		<10	1	0.05	10	0.46	213	<1	0.01	17	540	8	0.03	<2	3	21
CC144718		10	1	0.04	10	0.48	437	1	0.01	16	570	9	0.02	<2	3	20
CC144719		<10	<1	0.04	10	0.49	352	<1	0.01	16	550	9	0.03	2	3	23
CC144720		<10	1	0.04	10	0.46	311	<1	0.01	15	500	8	0.02	<2	3	20
CC144821		<10	1	0.06	30	0.45	378	1	0.02	26	600	9	0.01	<2	6	27
CC144822		10	<1	0.06	20	0.58	367	<1	0.02	27	680	13	<0.01	<2	6	24
CC144823		<10	<1	0.05	20	0.56	245	<1	0.02	21	600	9	<0.01	<2	5	24
CC144824		10	<1	0.05	20	0.56	290	<1	0.02	21	780	9	0.02	<2	5	22
CC144825		10	<1	0.05	10	0.55	224	<1	0.02	18	690	8	0.01	<2	4	22
CC144826		<10	<1	0.05	10	0.60	828	<1	0.02	18	760	10	0.02	<2	4	26
CC144827		10	<1	0.05	10	0.60	310	<1	0.02	19	700	9	0.02	<2	4	23
CC144828		10	<1	0.05	10	0.66	551	<1	0.02	21	640	8	0.02	<2	5	22
CC144829		<10	<1	0.05	10	0.54	514	<1	0.01	18	510	7	0.01	3	4	20
CC144830		10	<1	0.05	10	0.49	1295	<1	0.01	16	670	7	0.02	<2	4	17

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144691		<20	0.15	<10	<10	62	<10	55
CC144692		<20	0.14	<10	<10	62	<10	58
CC144693		<20	0.11	<10	<10	59	<10	54
CC144694		<20	0.13	<10	<10	59	<10	50
CC144695		<20	0.12	<10	<10	58	<10	52
CC144696		<20	0.13	<10	<10	59	<10	52
CC144697		<20	0.14	<10	<10	61	<10	51
CC144698		<20	0.10	<10	<10	52	<10	45
CC144699		<20	0.07	<10	<10	43	<10	42
CC144700		<20	0.08	<10	<10	54	<10	45
CC144701		<20	0.07	<10	<10	68	<10	49
CC144702		<20	0.06	<10	<10	45	<10	44
CC144703		<20	0.08	<10	<10	61	<10	47
CC144704		<20	0.18	<10	<10	83	<10	89
CC144705		<20	0.14	<10	<10	76	<10	52
CC144706		<20	0.15	<10	<10	66	<10	61
CC144707		<20	0.15	<10	<10	64	<10	49
CC144708		<20	0.12	<10	<10	62	<10	46
CC144709		<20	0.13	<10	<10	66	<10	51
CC144710		<20	0.10	<10	<10	65	<10	32
CC144711		<20	0.09	<10	<10	54	<10	57
CC144712		<20	0.09	<10	<10	54	<10	58
CC144713		<20	0.08	<10	<10	52	<10	44
CC144714		<20	0.09	<10	<10	56	<10	50
CC144715		<20	0.08	<10	<10	56	<10	49
CC144716		<20	0.08	<10	<10	55	<10	59
CC144717		<20	0.07	<10	<10	55	<10	57
CC144718		<20	0.08	<10	<10	79	<10	55
CC144719		<20	0.07	<10	<10	50	<10	55
CC144720		<20	0.07	<10	<10	53	<10	51
CC144821		<20	0.10	<10	<10	59	<10	52
CC144822		<20	0.12	<10	<10	67	<10	66
CC144823		<20	0.12	<10	<10	70	<10	58
CC144824		<20	0.10	<10	<10	80	<10	64
CC144825		<20	0.10	<10	<10	60	<10	58
CC144826		<20	0.08	<10	<10	64	<10	59
CC144827		<20	0.08	<10	<10	62	<10	60
CC144828		<20	0.09	<10	<10	57	<10	64
CC144829		<20	0.09	<10	<10	67	<10	58
CC144830		<20	0.08	<10	<10	67	<10	61

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144841		0.16	0.012	<0.2	1.71	34	<10	140	0.6	<2	0.21	<0.5	14	30	11	2.76
CC144842		0.14	0.019	<0.2	1.70	34	<10	160	0.5	<2	0.39	<0.5	8	28	10	2.55
CC144843		0.16	0.002	<0.2	1.69	10	<10	140	<0.5	<2	0.30	<0.5	10	32	10	2.57
CC144844		0.18	0.001	<0.2	1.69	10	<10	140	<0.5	<2	0.27	<0.5	13	32	11	2.61
CC144845		0.14	0.001	<0.2	1.65	7	<10	130	<0.5	<2	0.32	<0.5	7	31	10	2.44
CC144846		0.09	0.002	<0.2	1.36	8	<10	100	<0.5	<2	0.28	<0.5	6	27	8	1.91
CC144847		0.15	0.001	<0.2	1.52	8	<10	110	<0.5	<2	0.26	<0.5	6	30	9	1.90
CC144848		0.11	0.003	<0.2	1.58	9	<10	120	<0.5	<2	0.28	<0.5	7	30	9	2.40
CC144849		0.14	0.002	<0.2	1.63	8	<10	130	<0.5	<2	0.28	<0.5	8	29	11	2.31
CC144850		0.10	0.001	<0.2	1.51	8	<10	120	<0.5	<2	0.26	<0.5	5	26	8	2.07
CC144831		0.16	0.002	<0.2	1.72	9	<10	190	<0.5	<2	0.50	<0.5	8	35	22	2.41
CC144832		0.15	0.005	<0.2	1.69	8	<10	160	<0.5	<2	0.45	<0.5	8	35	11	2.52
CC144833		0.19	0.001	<0.2	1.59	6	<10	160	<0.5	<2	0.46	<0.5	10	30	10	2.25
CC144834		0.11	0.001	<0.2	1.70	6	<10	130	<0.5	<2	0.29	<0.5	7	31	10	2.14
CC144835		0.12	0.001	<0.2	1.60	6	<10	150	<0.5	<2	0.37	<0.5	7	28	10	2.13
CC144836		0.09	0.001	<0.2	1.65	7	<10	150	<0.5	<2	0.40	<0.5	12	31	10	2.51
CC144837		0.14	<0.001	<0.2	1.45	5	<10	110	<0.5	<2	0.34	<0.5	8	29	8	2.23
CC144838		0.20	<0.001	<0.2	1.33	6	<10	110	<0.5	<2	0.26	<0.5	6	25	9	2.06
CC144839		0.20	<0.001	<0.2	1.22	3	<10	100	<0.5	<2	0.33	<0.5	5	25	8	1.93
CC144721		0.19	0.002	<0.2	1.45	8	<10	120	<0.5	<2	0.28	<0.5	7	28	9	2.04
CC144722		0.25	0.002	<0.2	1.63	11	<10	150	<0.5	<2	0.35	<0.5	7	32	10	2.36
CC144723		0.17	<0.001	<0.2	1.63	8	<10	160	<0.5	<2	0.33	<0.5	16	31	10	2.54
CC144724		0.31	0.001	<0.2	1.59	9	<10	130	<0.5	<2	0.36	<0.5	13	30	10	2.48
CC144725		0.15	0.002	<0.2	1.35	5	<10	100	<0.5	<2	0.29	<0.5	6	24	7	1.76
CC144726		0.19	0.001	<0.2	1.33	7	<10	100	<0.5	<2	0.24	<0.5	5	25	8	1.78
CC144727		0.14	<0.001	<0.2	0.41	2	<10	40	<0.5	<2	0.09	<0.5	2	8	5	0.78
CC144728		0.17	<0.001	<0.2	1.55	7	<10	110	<0.5	<2	0.26	<0.5	8	32	9	2.17
CC144729		0.12	0.003	0.2	1.27	3	<10	100	<0.5	<2	0.21	<0.5	7	24	9	1.80
CC144730		0.24	0.001	0.2	1.36	8	<10	90	<0.5	<2	0.21	<0.5	9	26	9	2.25
CC144731		0.14	0.003	0.2	0.84	4	<10	50	<0.5	<2	0.08	<0.5	4	17	8	1.20
CC144732		0.19	<0.001	0.2	1.73	12	<10	170	0.5	<2	0.27	<0.5	12	32	15	2.62
CC144733		0.17	0.004	0.2	1.92	9	<10	180	<0.5	<2	0.27	<0.5	15	35	14	2.75
CC144734		0.20	0.001	<0.2	1.89	9	<10	160	0.6	<2	0.22	<0.5	13	33	18	3.01
CC144735		0.23	0.006	0.2	1.87	6	<10	180	0.5	<2	0.25	<0.5	19	32	14	2.55
CC144736		0.14	0.003	<0.2	2.00	9	<10	110	0.5	<2	0.20	<0.5	17	34	12	3.08
CC144737		0.23	0.003	0.2	1.67	8	<10	120	<0.5	<2	0.27	<0.5	15	29	14	2.47
CC144738		0.19	0.004	<0.2	1.80	11	<10	160	0.5	<2	0.32	<0.5	9	30	19	2.48
CC144739		0.18	0.010	0.3	1.86	5	<10	150	<0.5	<2	0.29	<0.5	8	30	15	2.35
CC144740		0.22	0.007	0.2	1.87	10	<10	150	<0.5	<2	0.31	<0.5	8	30	16	2.62
CC144741		0.33	0.005	0.2	2.10	17	<10	240	0.6	2	0.52	<0.5	15	41	30	3.81

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144841		10	<1	0.06	20	0.60	777	<1	0.01	14	380	16	<0.01	2	5	15
CC144842		10	<1	0.09	20	0.60	251	<1	0.01	14	500	11	0.02	4	4	23
CC144843		10	<1	0.05	10	0.50	516	<1	0.01	15	530	8	0.02	<2	4	18
CC144844		<10	<1	0.06	10	0.49	616	<1	0.01	16	500	8	0.01	<2	4	17
CC144845		<10	<1	0.05	10	0.51	226	<1	0.02	15	520	7	0.02	2	4	19
CC144846		<10	<1	0.05	10	0.42	203	<1	0.01	13	600	8	0.03	<2	3	18
CC144847		10	<1	0.05	10	0.46	148	<1	0.01	12	480	8	0.01	<2	3	16
CC144848		<10	1	0.05	10	0.50	284	<1	0.01	15	560	10	0.01	<2	3	18
CC144849		<10	<1	0.05	10	0.47	252	<1	0.01	15	630	9	0.03	<2	3	18
CC144850		10	<1	0.04	10	0.45	141	<1	0.01	14	520	8	0.02	<2	3	16
CC144831		10	<1	0.06	20	0.54	298	<1	0.02	25	560	9	0.03	<2	5	26
CC144832		10	<1	0.05	10	0.52	295	<1	0.02	15	600	9	0.02	<2	4	23
CC144833		<10	<1	0.05	10	0.44	515	<1	0.02	15	520	7	0.02	<2	4	25
CC144834		10	<1	0.05	10	0.45	169	<1	0.02	14	550	8	0.02	<2	3	19
CC144835		10	<1	0.05	10	0.45	187	<1	0.02	14	530	8	0.02	2	3	22
CC144836		10	<1	0.05	10	0.47	611	<1	0.02	14	590	9	0.02	<2	4	21
CC144837		<10	<1	0.05	10	0.43	305	<1	0.01	13	550	9	0.01	<2	3	18
CC144838		<10	<1	0.04	10	0.37	160	<1	0.01	12	520	8	0.02	<2	3	14
CC144839		<10	<1	0.04	10	0.39	136	<1	0.01	11	530	9	0.02	2	2	16
CC144721		<10	<1	0.04	10	0.44	216	<1	0.01	14	530	7	0.02	<2	3	18
CC144722		10	<1	0.05	10	0.50	199	<1	0.01	15	580	7	0.02	<2	4	20
CC144723		<10	<1	0.05	10	0.48	840	<1	0.02	15	580	8	0.02	2	4	19
CC144724		10	<1	0.05	10	0.47	540	<1	0.02	15	560	6	0.02	<2	4	21
CC144725		10	<1	0.04	10	0.39	169	<1	0.02	12	460	6	0.02	<2	3	16
CC144726		10	<1	0.04	10	0.37	138	<1	0.01	11	520	8	0.02	<2	2	15
CC144727		<10	<1	0.04	<10	0.08	47	<1	0.02	3	130	4	<0.01	<2	1	6
CC144728		<10	<1	0.05	10	0.52	299	<1	0.01	15	540	9	0.01	<2	3	16
CC144729		<10	<1	0.04	10	0.37	152	<1	0.01	11	480	7	0.03	<2	2	18
CC144730		<10	<1	0.05	10	0.40	330	<1	0.01	13	500	9	0.01	<2	3	17
CC144731		<10	<1	0.04	10	0.17	61	<1	0.01	6	420	6	0.02	<2	1	10
CC144732		10	<1	0.06	20	0.49	573	<1	0.01	17	590	12	0.03	<2	4	23
CC144733		10	<1	0.05	20	0.55	1030	1	0.01	17	580	13	0.03	<2	4	24
CC144734		10	<1	0.04	20	0.45	530	1	0.01	16	660	11	0.04	<2	4	21
CC144735		10	<1	0.05	20	0.49	1145	<1	0.01	18	590	11	0.03	2	4	22
CC144736		10	<1	0.05	20	0.50	984	<1	0.01	16	390	11	0.01	<2	3	18
CC144737		10	<1	0.05	10	0.46	649	<1	0.01	16	650	8	0.01	<2	3	20
CC144738		10	<1	0.04	10	0.48	180	<1	0.01	17	590	8	0.01	<2	5	24
CC144739		10	<1	0.04	10	0.47	151	<1	0.01	17	530	9	0.01	<2	4	23
CC144740		10	<1	0.04	10	0.48	161	<1	0.01	17	600	9	0.01	<2	4	23
CC144741		10	1	0.06	20	0.64	1065	1	0.02	26	880	12	0.01	<2	7	38

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC144841		<20	0.10	<10	<10	63	<10	61
CC144842		<20	0.09	<10	<10	56	<10	57
CC144843		<20	0.09	<10	<10	72	<10	60
CC144844		<20	0.09	<10	<10	68	<10	57
CC144845		<20	0.09	<10	<10	60	<10	57
CC144846		<20	0.07	<10	<10	42	<10	49
CC144847		<20	0.08	<10	<10	40	<10	52
CC144848		<20	0.08	<10	<10	62	<10	57
CC144849		<20	0.08	<10	<10	53	<10	57
CC144850		<20	0.08	<10	<10	50	<10	52
CC144831		<20	0.09	<10	<10	59	<10	61
CC144832		<20	0.10	<10	<10	73	<10	63
CC144833		<20	0.09	<10	<10	60	<10	59
CC144834		<20	0.08	<10	<10	56	<10	58
CC144835		<20	0.09	<10	<10	52	<10	57
CC144836		<20	0.09	<10	<10	69	<10	61
CC144837		<20	0.09	<10	<10	55	<10	55
CC144838		<20	0.08	<10	<10	50	<10	44
CC144839		<20	0.08	<10	<10	47	<10	44
CC144721		<20	0.08	<10	<10	48	<10	53
CC144722		<20	0.08	<10	<10	54	<10	57
CC144723		<20	0.09	<10	<10	64	<10	62
CC144724		<20	0.09	<10	<10	63	<10	58
CC144725		<20	0.08	<10	<10	41	<10	48
CC144726		<20	0.07	<10	<10	49	<10	46
CC144727		<20	0.06	<10	<10	25	<10	14
CC144728		<20	0.09	<10	<10	54	<10	51
CC144729		<20	0.07	<10	<10	39	<10	42
CC144730		<20	0.08	<10	<10	54	<10	49
CC144731		<20	0.05	<10	<10	24	<10	21
CC144732		<20	0.08	<10	<10	59	<10	59
CC144733		<20	0.09	<10	<10	67	<10	60
CC144734		<20	0.07	<10	<10	59	<10	48
CC144735		<20	0.08	<10	<10	56	<10	54
CC144736		<20	0.10	<10	<10	64	<10	54
CC144737		<20	0.08	<10	<10	53	<10	49
CC144738		<20	0.09	<10	<10	58	<10	49
CC144739		<20	0.09	<10	<10	51	<10	49
CC144740		<20	0.09	<10	<10	58	<10	50
CC144741		<20	0.13	<10	<10	78	<10	63

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC144742		0.35	0.004	<0.2	1.81	8	<10	130	<0.5	<2	0.28	<0.5	7	31	16	2.28
CC144851		0.06	<0.001	0.2	1.49	5	<10	110	<0.5	2	0.25	<0.5	7	26	10	2.11
CC144852		0.17	<0.001	0.2	1.64	8	<10	130	<0.5	<2	0.23	<0.5	13	29	10	2.84
CC144853		0.19	0.001	0.2	1.64	6	<10	140	<0.5	<2	0.29	<0.5	11	31	11	2.19
CC144854		0.23	0.005	<0.2	1.80	6	<10	150	<0.5	<2	0.30	<0.5	13	34	12	2.68
CC144855		0.22	0.002	0.2	1.59	2	<10	160	<0.5	3	0.19	<0.5	9	30	12	1.84
CC144856		0.32	0.001	0.2	1.71	7	<10	120	0.6	2	0.30	<0.5	11	41	16	2.48
CC144857		0.24	0.003	0.2	1.81	6	<10	120	<0.5	<2	0.22	<0.5	13	33	12	2.61
CC144858		0.21	0.006	0.3	2.53	10	<10	230	0.9	2	0.36	<0.5	11	42	26	3.28
CC144859		0.24	0.004	<0.2	1.52	9	<10	100	0.5	<2	0.33	<0.5	10	31	14	2.33
CC144860		0.18	0.002	0.2	2.42	13	<10	120	<0.5	<2	0.12	<0.5	9	39	18	4.06
CC144861		0.33	0.011	0.2	2.25	10	<10	140	0.8	<2	0.31	<0.5	14	44	21	2.95
CC144862		0.32	0.004	<0.2	1.96	9	<10	180	0.6	<2	0.42	<0.5	13	44	26	2.92
CC144863		0.19	0.002	<0.2	2.42	7	<10	210	0.6	2	0.33	<0.5	13	46	23	3.06
CC144864		0.33	0.004	0.2	2.36	11	<10	270	0.7	<2	0.42	<0.5	11	47	32	3.23
CC144751		0.16	0.002	<0.2	1.87	6	<10	210	0.5	<2	0.42	<0.5	10	34	19	2.73
CC144752		0.12	0.004	<0.2	1.80	7	<10	180	0.5	<2	0.32	<0.5	7	31	17	2.28
CC144753		0.21	0.001	<0.2	1.63	4	<10	150	<0.5	<2	0.24	<0.5	6	27	10	2.10
CC144754		0.17	0.001	<0.2	1.76	6	<10	170	<0.5	<2	0.30	<0.5	13	28	13	2.49
CC144755		0.10	0.001	<0.2	1.82	6	<10	150	<0.5	<2	0.31	<0.5	7	30	10	2.39
CC144756		0.15	<0.001	<0.2	1.88	7	<10	160	<0.5	<2	0.33	<0.5	9	31	11	2.58
CC144757		0.10	0.139	<0.2	1.72	5	<10	150	<0.5	<2	0.34	<0.5	7	31	10	2.23
CC144758		0.11	0.005	<0.2	1.78	6	<10	150	<0.5	<2	0.32	<0.5	7	36	12	2.32
CC144759		0.10	0.004	<0.2	1.65	8	<10	160	<0.5	<2	0.31	<0.5	7	33	15	2.17
CC144760		0.10	0.001	<0.2	1.41	10	<10	130	<0.5	<2	0.32	<0.5	6	28	10	2.05
CC144761		0.16	0.001	<0.2	1.57	7	<10	160	<0.5	<2	0.40	<0.5	12	32	11	2.41
CC144762		0.16	<0.001	<0.2	1.49	5	<10	140	<0.5	<2	0.37	<0.5	9	29	10	2.13
CC144763		0.15	<0.001	<0.2	1.45	8	<10	130	<0.5	<2	0.31	<0.5	7	26	10	2.26
CC144764		0.11	0.002	<0.2	1.34	6	<10	110	<0.5	<2	0.27	<0.5	5	24	8	1.84
CC144765		0.10	<0.001	<0.2	1.40	5	<10	120	<0.5	<2	0.30	<0.5	6	25	9	1.96
CC144766		0.10	0.002	<0.2	1.41	7	<10	110	<0.5	<2	0.27	<0.5	6	26	11	2.23
CC144767		0.18	0.001	<0.2	1.36	7	<10	90	<0.5	<2	0.22	<0.5	7	26	9	2.26
CC144768		0.26	0.047	<0.2	2.02	6	<10	200	1.0	<2	0.51	<0.5	12	64	22	3.14
CC144769		0.13	0.003	<0.2	1.53	8	<10	120	<0.5	<2	0.25	<0.5	6	28	9	2.02
CC144770		0.10	<0.001	<0.2	0.76	3	<10	50	<0.5	<2	0.07	<0.5	3	13	9	1.57
CC144771		0.08	0.001	<0.2	1.45	6	<10	120	<0.5	<2	0.29	<0.5	6	27	9	2.10
CC144772		0.09	<0.001	<0.2	1.36	5	<10	110	<0.5	<2	0.25	<0.5	7	25	10	1.97
CC144773		0.10	<0.001	<0.2	1.31	6	<10	110	<0.5	<2	0.21	<0.5	6	26	9	1.86
CC144774		0.08	0.002	<0.2	1.27	8	<10	110	<0.5	<2	0.23	<0.5	5	26	11	1.88
CC144775		0.12	0.001	<0.2	1.59	7	<10	140	<0.5	<2	0.27	<0.5	7	29	11	2.14

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- AUG- 2011
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Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144742		10	<1	0.04	10	0.47	160	<1	0.01	16	480	9	0.01	<2	4	21
CC144851		10	<1	0.04	10	0.43	146	<1	0.01	14	570	7	0.03	<2	3	20
CC144852		10	<1	0.04	10	0.47	663	1	0.01	15	540	8	0.03	<2	3	20
CC144853		10	<1	0.04	10	0.51	444	<1	0.01	15	540	8	0.02	<2	3	22
CC144854		<10	<1	0.05	10	0.54	578	<1	0.01	17	660	9	0.02	<2	4	22
CC144855		10	<1	0.04	20	0.44	145	<1	0.01	15	360	7	0.02	<2	4	17
CC144856		<10	1	0.13	20	0.69	422	<1	0.01	21	580	7	0.01	<2	5	20
CC144857		10	<1	0.06	20	0.50	639	<1	0.01	17	630	12	0.02	<2	3	19
CC144858		10	<1	0.08	40	0.52	278	<1	0.01	23	820	24	0.04	<2	7	28
CC144859		<10	<1	0.08	20	0.51	336	<1	0.01	15	700	10	0.01	<2	3	21
CC144860		10	<1	0.06	20	0.51	412	1	0.01	17	330	17	0.01	<2	5	15
CC144861		10	<1	0.08	30	0.70	834	<1	0.01	23	500	10	<0.01	<2	6	24
CC144862		10	<1	0.07	20	0.72	377	<1	0.01	22	540	9	0.01	<2	7	28
CC144863		10	1	0.07	20	0.65	518	1	0.01	23	650	10	0.03	<2	5	25
CC144864		10	<1	0.08	20	0.65	436	<1	0.01	26	580	11	<0.01	2	8	35
CC144751		10	1	0.05	30	0.48	498	<1	0.02	17	700	11	0.09	<2	5	31
CC144752		<10	<1	0.05	20	0.49	154	<1	0.02	16	490	9	0.05	<2	5	22
CC144753		10	<1	0.04	10	0.42	203	<1	0.02	12	530	8	0.07	<2	3	20
CC144754		10	<1	0.04	10	0.47	945	<1	0.02	15	540	9	0.05	<2	4	23
CC144755		10	<1	0.05	10	0.53	239	<1	0.02	15	520	9	0.05	<2	3	23
CC144756		10	<1	0.05	10	0.56	300	<1	0.02	15	550	11	0.04	<2	4	24
CC144757		10	<1	0.05	10	0.54	255	<1	0.02	15	530	9	0.05	<2	4	24
CC144758		10	<1	0.05	10	0.58	266	<1	0.02	16	520	9	0.04	<2	4	24
CC144759		<10	<1	0.04	10	0.52	196	<1	<0.01	22	590	12	0.05	<2	4	20
CC144760		<10	<1	0.04	10	0.45	158	<1	<0.01	14	540	7	0.05	<2	3	19
CC144761		<10	<1	0.05	10	0.49	455	<1	<0.01	16	600	8	0.05	<2	4	21
CC144762		<10	<1	0.05	10	0.44	383	<1	<0.01	14	530	8	0.05	<2	3	19
CC144763		<10	<1	0.04	10	0.39	282	<1	<0.01	12	600	7	0.06	<2	3	18
CC144764		<10	1	0.04	10	0.39	147	<1	<0.01	12	510	8	0.05	<2	2	17
CC144765		<10	<1	0.04	10	0.41	195	<1	<0.01	13	490	8	0.05	<2	3	17
CC144766		<10	<1	0.05	10	0.40	209	<1	<0.01	13	600	7	0.05	<2	3	15
CC144767		<10	<1	0.04	10	0.41	226	<1	<0.01	13	440	9	0.04	<2	3	12
CC144768		10	<1	0.57	50	1.24	419	<1	<0.01	29	1090	7	0.03	<2	5	29
CC144769		10	<1	0.05	10	0.45	168	<1	<0.01	14	550	10	0.05	<2	3	16
CC144770		10	<1	0.04	<10	0.13	97	1	<0.01	6	430	6	0.05	2	1	5
CC144771		<10	<1	0.04	10	0.44	183	<1	<0.01	14	620	8	0.06	<2	3	19
CC144772		<10	<1	0.04	10	0.40	226	<1	<0.01	13	620	9	0.06	<2	2	16
CC144773		10	<1	0.05	10	0.35	177	<1	<0.01	11	540	7	0.06	<2	2	16
CC144774		<10	<1	0.04	10	0.37	151	<1	<0.01	13	610	8	0.06	<2	2	15
CC144775		<10	<1	0.05	10	0.49	184	<1	<0.01	16	560	7	0.04	<2	3	18

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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC144742		<20	0.09	<10	<10	54	<10	45
CC144851		<20	0.07	<10	<10	48	<10	49
CC144852		<20	0.08	<10	<10	70	<10	52
CC144853		<20	0.08	<10	<10	51	<10	53
CC144854		<20	0.08	<10	<10	60	<10	57
CC144855		<20	0.08	<10	<10	44	<10	39
CC144856		<20	0.11	<10	<10	55	<10	49
CC144857		<20	0.09	<10	<10	60	<10	57
CC144858		<20	0.09	<10	<10	68	<10	73
CC144859		<20	0.10	<10	<10	51	<10	48
CC144860		<20	0.14	<10	<10	106	<10	51
CC144861		<20	0.13	<10	<10	64	<10	52
CC144862		<20	0.13	<10	<10	64	<10	53
CC144863		<20	0.10	<10	<10	65	<10	53
CC144864		<20	0.12	<10	<10	69	<10	58
CC144751		<20	0.08	<10	<10	60	<10	47
CC144752		<20	0.10	<10	<10	61	<10	51
CC144753		<20	0.07	<10	<10	52	<10	43
CC144754		<20	0.08	<10	<10	59	<10	53
CC144755		<20	0.09	<10	<10	57	<10	56
CC144756		<20	0.09	<10	<10	63	<10	60
CC144757		<20	0.08	<10	<10	50	<10	56
CC144758		<20	0.09	<10	<10	55	<10	59
CC144759		<20	0.08	<10	<10	46	<10	67
CC144760		<20	0.07	<10	<10	52	<10	54
CC144761		<20	0.08	<10	<10	63	<10	61
CC144762		<20	0.08	<10	<10	57	<10	55
CC144763		<20	0.07	<10	<10	57	<10	51
CC144764		<20	0.07	<10	<10	42	<10	49
CC144765		<20	0.08	<10	<10	49	<10	53
CC144766		<20	0.08	<10	<10	53	<10	51
CC144767		<20	0.08	<10	<10	65	<10	51
CC144768		<20	0.16	<10	<10	71	<10	62
CC144769		<20	0.07	<10	<10	44	<10	53
CC144770		<20	0.07	<10	<10	53	<10	26
CC144771		<20	0.07	<10	<10	48	<10	52
CC144772		<20	0.06	<10	<10	44	<10	49
CC144773		<20	0.06	<10	<10	41	<10	45
CC144774		<20	0.06	<10	<10	41	<10	45
CC144775		<20	0.08	<10	<10	51	<10	56

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CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144776		0.17	0.004	<0.2	1.68	7	<10	130	<0.5	<2	0.25	<0.5	8	31	9	2.29
CC144777		0.25	0.008	<0.2	1.21	8	<10	80	<0.5	<2	0.24	<0.5	17	27	7	2.17
CC144778		0.17	0.001	<0.2	1.43	6	<10	110	<0.5	2	0.24	<0.5	6	27	8	2.04
CC144779		0.16	0.003	<0.2	1.37	5	<10	110	<0.5	<2	0.29	<0.5	6	27	8	2.01
CC144780		0.30	0.005	<0.2	1.49	7	<10	100	<0.5	<2	0.26	<0.5	9	33	10	2.32
CC144781		0.16	0.003	<0.2	2.32	11	<10	240	0.7	<2	0.29	<0.5	11	41	17	3.19
CC144782		0.22	0.002	<0.2	1.78	8	<10	160	0.6	<2	0.40	<0.5	12	37	18	2.79
CC144783		0.15	0.002	<0.2	2.17	13	<10	120	<0.5	<2	0.21	<0.5	13	41	14	3.88
CC144784		0.13	0.004	<0.2	2.09	9	<10	170	0.7	<2	0.33	<0.5	12	44	18	3.06
CC144785		0.32	0.005	<0.2	2.30	11	<10	240	0.7	<2	0.48	<0.5	14	51	25	3.30
ZZ20031		0.09	<0.001	<0.2	0.51	4	<10	80	<0.5	<2	0.13	<0.5	3	9	5	0.93
ZZ20032		0.11	0.002	<0.2	1.30	6	<10	100	<0.5	<2	0.08	<0.5	4	19	9	2.76
ZZ20033		0.11	0.007	<0.2	2.23	9	<10	320	0.8	<2	0.58	<0.5	9	47	25	2.70
ZZ20034		0.23	0.016	<0.2	2.22	23	<10	220	0.5	<2	0.42	<0.5	10	50	19	3.04
ZZ20035		0.16	0.005	<0.2	2.67	16	<10	320	1.0	<2	0.61	<0.5	11	49	25	3.32
ZZ20036		0.10	0.002	<0.2	1.46	11	<10	110	<0.5	<2	0.20	<0.5	10	32	12	2.48
ZZ20037		0.18	0.003	<0.2	1.73	5	<10	150	0.5	<2	0.34	<0.5	9	44	15	2.74
ZZ20038		0.17	0.120	<0.2	2.21	52	<10	180	0.7	<2	0.31	<0.5	11	41	18	3.16
ZZ20039		0.18	0.003	<0.2	1.62	12	<10	140	<0.5	<2	0.19	<0.5	6	30	16	2.53
ZZ20040		0.11	0.002	<0.2	1.72	8	<10	150	<0.5	<2	0.25	<0.5	6	29	16	2.44
ZZ20041		0.19	0.003	<0.2	1.74	6	<10	120	<0.5	<2	0.25	<0.5	8	37	13	2.55
ZZ20042		0.22	0.003	<0.2	2.30	13	<10	160	0.7	<2	0.34	<0.5	11	65	23	3.15
ZZ20043		0.25	0.001	<0.2	2.85	6	<10	160	1.6	<2	0.55	<0.5	19	55	25	4.03
ZZ20044		0.21	0.001	<0.2	1.63	10	<10	110	<0.5	<2	0.23	<0.5	7	32	12	2.47
ZZ20045		0.14	0.003	<0.2	2.14	7	<10	200	0.7	<2	0.37	<0.5	11	55	24	2.88
ZZ20046		0.20	0.004	<0.2	1.92	7	<10	170	0.5	<2	0.32	<0.5	9	40	19	2.84
ZZ20047		0.13	0.002	<0.2	2.20	14	<10	110	<0.5	<2	0.16	<0.5	8	33	13	3.62
ZZ20048		0.09	0.002	<0.2	0.90	4	<10	80	<0.5	<2	0.08	<0.5	12	12	11	1.75
ZZ20049		0.10	0.010	<0.2	2.10	26	<10	260	0.7	<2	0.40	<0.5	7	40	18	2.85
ZZ20050		0.19	<0.001	<0.2	2.30	10	<10	200	0.5	<2	0.30	<0.5	9	47	16	3.32

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144776		10	<1	0.04	10	0.52	229	<1	<0.01	15	480	8	0.04	<2	3	17
CC144777		<10	<1	0.05	10	0.47	1025	<1	<0.01	13	530	7	0.03	<2	3	11
CC144778		<10	<1	0.04	10	0.43	186	<1	<0.01	13	480	8	0.04	<2	3	16
CC144779		<10	<1	0.05	10	0.44	174	<1	<0.01	14	550	8	0.04	<2	3	17
CC144780		<10	<1	0.06	20	0.49	305	<1	<0.01	16	590	8	0.04	<2	3	15
CC144781		10	<1	0.07	30	0.61	398	<1	<0.01	22	610	14	0.05	2	6	24
CC144782		<10	<1	0.07	20	0.60	440	<1	<0.01	21	670	10	0.03	<2	5	22
CC144783		10	<1	0.06	10	0.63	875	1	<0.01	18	480	17	0.04	<2	4	15
CC144784		10	<1	0.13	30	0.76	539	<1	<0.01	23	640	15	0.03	<2	6	19
CC144785		10	<1	0.12	20	0.77	467	<1	<0.01	25	660	12	0.03	<2	8	27
ZZ20031		<10	<1	0.04	10	0.12	244	<1	0.01	4	240	5	0.03	<2	1	8
ZZ20032		10	<1	0.02	10	0.19	246	1	<0.01	9	310	10	0.03	<2	2	6
ZZ20033		10	<1	0.08	20	0.60	394	<1	0.01	27	710	12	0.06	<2	6	36
ZZ20034		10	<1	0.06	10	0.72	330	<1	<0.01	25	470	8	0.03	<2	7	23
ZZ20035		10	<1	0.07	40	0.55	463	<1	0.01	25	700	12	0.05	<2	8	29
ZZ20036		10	<1	0.07	10	0.45	754	<1	<0.01	16	500	8	0.03	2	3	11
ZZ20037		10	<1	0.07	10	0.76	338	<1	<0.01	22	450	8	0.03	<2	5	20
ZZ20038		10	<1	0.06	20	0.62	368	<1	<0.01	23	370	19	0.02	18	5	25
ZZ20039		10	1	0.05	10	0.40	248	<1	<0.01	15	310	12	0.03	<2	3	14
ZZ20040		10	<1	0.05	10	0.38	172	1	0.02	16	320	11	0.02	<2	4	22
ZZ20041		10	<1	0.06	10	0.67	255	<1	0.02	18	300	9	0.01	<2	4	19
ZZ20042		10	<1	0.07	20	1.10	318	<1	0.02	33	390	12	0.01	<2	6	25
ZZ20043		10	1	0.91	30	2.12	602	<1	0.02	29	760	4	0.01	<2	6	32
ZZ20044		10	<1	0.06	10	0.56	227	<1	0.02	16	340	12	0.01	<2	3	18
ZZ20045		10	<1	0.06	20	0.95	325	<1	0.02	30	430	13	0.01	<2	6	26
ZZ20046		10	<1	0.05	30	0.76	336	<1	0.02	21	360	9	0.01	<2	6	24
ZZ20047		10	<1	0.04	10	0.34	309	1	0.02	15	400	9	0.02	<2	3	16
ZZ20048		<10	<1	0.03	10	0.13	1270	1	0.03	5	270	5	0.02	<2	1	11
ZZ20049		10	<1	0.11	10	0.47	387	1	0.03	22	390	11	0.03	7	5	33
ZZ20050		10	1	0.08	20	0.80	452	1	0.02	25	480	20	0.01	<2	5	21

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC144776		<20	0.08	<10	<10	56	<10	57
CC144777		<20	0.09	<10	<10	60	<10	45
CC144778		<20	0.08	<10	<10	52	<10	49
CC144779		<20	0.08	<10	<10	49	<10	48
CC144780		<20	0.09	<10	<10	54	<10	53
CC144781		<20	0.10	<10	<10	69	<10	71
CC144782		<20	0.12	<10	<10	64	<10	63
CC144783		<20	0.12	<10	<10	90	<10	69
CC144784		<20	0.12	<10	<10	65	<10	64
CC144785		<20	0.13	<10	<10	75	<10	62
ZZ20031		<20	0.06	<10	<10	27	<10	20
ZZ20032		<20	0.10	<10	<10	97	<10	37
ZZ20033		<20	0.09	<10	<10	58	<10	53
ZZ20034		<20	0.11	<10	<10	75	<10	57
ZZ20035		<20	0.09	<10	<10	67	<10	59
ZZ20036		<20	0.09	<10	<10	61	<10	62
ZZ20037		<20	0.12	<10	<10	67	<10	58
ZZ20038		<20	0.09	<10	<10	67	<10	76
ZZ20039		<20	0.09	<10	<10	63	<10	51
ZZ20040		<20	0.09	<10	<10	63	<10	47
ZZ20041		<20	0.13	<10	<10	65	<10	42
ZZ20042		<20	0.15	<10	<10	75	<10	58
ZZ20043		<20	0.22	<10	<10	97	<10	67
ZZ20044		<20	0.12	<10	<10	62	<10	41
ZZ20045		<20	0.13	<10	<10	67	<10	54
ZZ20046		<20	0.13	<10	<10	67	<10	50
ZZ20047		<20	0.11	<10	<10	95	<10	43
ZZ20048		<20	0.06	<10	<10	36	<10	24
ZZ20049		<20	0.08	<10	<10	68	<10	67
ZZ20050		<20	0.13	<10	<10	82	<10	73

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- AUG- 2011
Account: F

Project: Arcus- Danman- Soils 4

CERTIFICATE OF ANALYSIS WH11144997

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

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
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Finalized Date: 9- SEP- 2011
Account: F

CERTIFICATE WH11151854

Project: Arcus - DAN MAN

P.O. No.: Soils Ba 3, Grid B,C

This report is for 240 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 9- SEP- 2011
Account: F

Project: Arcus - DAN MAN

CERTIFICATE OF ANALYSIS WH11151854

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC144871		0.32	0.006	<0.2	1.86	12	<10	230	0.6	<2	0.50	<0.5	13	41	28	2.95
CC144872		0.20	0.006	<0.2	1.88	7	<10	180	<0.5	<2	0.40	<0.5	12	36	22	2.79
CC144873		0.32	0.018	<0.2	1.89	19	<10	220	0.6	<2	0.46	<0.5	13	42	23	2.96
CC144874		0.28	0.012	<0.2	1.79	11	<10	200	0.6	<2	0.38	<0.5	12	35	17	2.69
CC144875		0.28	0.004	<0.2	2.13	7	<10	210	1.0	<2	0.53	<0.5	16	58	28	3.22
CC144876		0.34	0.010	<0.2	1.63	10	<10	170	0.6	<2	0.43	<0.5	11	41	23	2.65
CC144877		0.30	0.006	<0.2	1.80	8	<10	210	0.6	<2	0.35	<0.5	15	36	17	2.68
CC144878		0.22	0.007	<0.2	1.91	8	<10	210	0.6	<2	0.38	<0.5	14	37	22	2.79
CC144879		0.28	0.007	<0.2	1.46	5	<10	140	<0.5	<2	0.32	<0.5	10	28	14	2.16
CC144880		0.30	0.017	<0.2	1.55	8	<10	160	<0.5	<2	0.42	<0.5	12	30	13	2.42
CC144901		0.32	0.007	<0.2	1.99	9	<10	190	<0.5	<2	0.41	<0.5	11	42	18	2.76
CC144902		0.18	0.008	<0.2	1.96	16	<10	150	0.5	<2	0.20	<0.5	11	35	13	3.72
CC144903		0.24	0.004	<0.2	1.70	10	<10	160	0.5	<2	0.29	<0.5	10	32	16	2.70
CC144904		0.22	0.007	<0.2	1.60	7	<10	160	<0.5	<2	0.22	<0.5	9	26	17	2.40
CC144905		0.14	0.005	<0.2	2.13	7	<10	260	0.5	<2	0.58	<0.5	13	40	17	3.11
CC144906		0.28	0.015	<0.2	1.68	14	<10	170	0.7	<2	0.42	<0.5	11	38	17	2.93
CC144907		0.20	0.006	<0.2	1.26	11	<10	100	<0.5	<2	0.16	<0.5	6	22	10	2.14
CC144908		0.24	0.010	<0.2	1.86	16	<10	170	0.6	<2	0.38	<0.5	12	40	16	3.22
CC144909		0.26	0.004	<0.2	2.59	15	<10	220	0.7	<2	0.29	<0.5	13	48	18	3.65
CC144910		0.20	0.006	<0.2	2.30	13	<10	230	0.8	<2	0.45	<0.5	12	47	22	3.42
ZZ20271		0.24	0.003	<0.2	1.97	8	<10	200	<0.5	<2	0.67	<0.5	17	45	15	2.91
ZZ20272		0.32	0.005	<0.2	1.98	10	<10	170	<0.5	<2	0.34	<0.5	12	44	14	3.06
ZZ20273		0.42	0.008	<0.2	2.30	16	<10	220	0.5	<2	0.46	<0.5	13	42	16	3.54
ZZ20274		0.34	0.005	<0.2	2.07	14	<10	210	<0.5	<2	0.49	<0.5	14	78	17	3.01
ZZ20275		0.26	0.005	<0.2	1.86	17	<10	170	<0.5	<2	0.29	<0.5	10	35	12	2.69
ZZ20276		0.30	0.009	<0.2	2.13	15	<10	200	<0.5	<2	0.41	<0.5	13	44	17	3.20
ZZ20277		0.22	0.006	<0.2	1.69	11	<10	150	<0.5	<2	0.19	<0.5	9	30	13	2.52
ZZ20278		0.28	0.009	<0.2	2.11	13	<10	240	0.5	<2	0.40	<0.5	10	35	19	3.34
ZZ20279		0.24	0.006	<0.2	1.71	13	<10	140	<0.5	<2	0.16	<0.5	11	32	14	2.73
ZZ20280		0.30	0.007	<0.2	2.36	15	<10	180	<0.5	<2	0.24	<0.5	10	39	15	3.23
ZZ20201		0.24	0.006	<0.2	1.74	21	<10	150	0.5	<2	0.32	<0.5	10	27	11	2.72
ZZ20202		0.40	0.004	<0.2	1.84	18	<10	160	0.7	<2	0.35	<0.5	13	33	14	2.99
ZZ20203		0.38	0.016	<0.2	1.68	45	<10	150	0.6	<2	0.37	<0.5	13	36	14	2.76
ZZ20204		0.26	0.028	<0.2	1.56	66	<10	150	<0.5	<2	0.37	<0.5	13	30	12	2.40
ZZ20205		0.28	0.024	<0.2	1.32	26	<10	140	<0.5	<2	0.38	<0.5	7	25	15	1.65
ZZ20206		0.22	0.007	<0.2	1.33	23	<10	160	<0.5	<2	0.46	<0.5	26	28	9	2.91
ZZ20207		0.28	0.011	<0.2	1.19	24	<10	100	<0.5	<2	0.32	<0.5	8	27	11	2.08
ZZ20208		0.40	0.007	<0.2	1.15	8	<10	80	<0.5	<2	0.37	<0.5	8	26	7	1.93
ZZ20209		0.30	0.003	<0.2	1.08	4	<10	130	<0.5	<2	0.35	<0.5	10	24	13	1.94
ZZ20210		0.44	0.007	<0.2	1.67	5	<10	150	<0.5	<2	0.36	<0.5	9	32	14	2.39

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VANCOUVER BC V6B 1L8

Finalized Date: 9- SEP- 2011
Account: F

Project: Arcus - DAN MAN

CERTIFICATE OF ANALYSIS WH11151854

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144871		10	<1	0.06	20	0.61	391	<1	0.02	24	630	8	0.03	<2	8	37
CC144872		10	<1	0.05	20	0.54	282	<1	0.02	19	560	7	0.03	<2	5	29
CC144873		10	<1	0.06	20	0.62	305	<1	0.02	22	580	8	0.02	2	8	30
CC144874		10	<1	0.05	20	0.52	453	<1	0.01	19	490	6	0.02	<2	6	26
CC144875		10	<1	0.43	30	1.22	455	1	0.01	30	850	9	0.02	<2	8	27
CC144876		10	<1	0.10	20	0.55	237	<1	0.02	21	570	7	0.02	<2	7	26
CC144877		10	<1	0.05	30	0.49	454	1	0.01	17	480	7	0.03	<2	6	24
CC144878		10	<1	0.05	20	0.53	358	<1	0.01	21	480	8	0.03	<2	7	28
CC144879		<10	<1	0.04	10	0.42	270	<1	0.01	15	450	7	0.02	<2	4	21
CC144880		<10	<1	0.05	20	0.43	314	<1	0.01	15	500	7	0.03	<2	5	24
CC144901		10	<1	0.06	10	0.71	317	1	0.02	24	500	10	0.03	<2	5	27
CC144902		10	<1	0.15	10	0.58	286	2	0.01	18	380	9	0.03	<2	4	18
CC144903		10	<1	0.06	20	0.47	291	<1	0.01	18	410	10	0.02	<2	4	22
CC144904		10	<1	0.06	10	0.35	324	1	0.01	17	330	12	0.02	<2	3	18
CC144905		10	<1	0.10	10	0.76	518	1	0.02	21	520	7	0.04	<2	5	35
CC144906		10	<1	0.10	20	0.63	345	<1	0.01	19	520	22	0.02	<2	6	25
CC144907		10	<1	0.05	10	0.32	148	<1	0.01	10	200	11	0.02	<2	3	16
CC144908		10	<1	0.13	10	0.72	359	<1	0.01	18	480	10	0.02	<2	7	23
CC144909		10	<1	0.08	20	0.73	453	<1	0.01	22	370	18	0.02	<2	6	23
CC144910		10	<1	0.11	30	0.71	414	<1	0.02	22	620	65	0.03	2	7	30
ZZ20271		10	<1	0.12	20	0.86	825	<1	0.02	22	450	11	0.04	<2	5	38
ZZ20272		10	<1	0.09	10	0.76	337	<1	0.01	22	550	11	0.02	<2	6	23
ZZ20273		10	<1	0.09	10	0.68	498	<1	0.02	20	440	8	0.02	<2	8	26
ZZ20274		10	<1	0.15	10	1.21	309	<1	0.01	35	650	4	0.03	<2	5	26
ZZ20275		10	<1	0.07	10	0.62	227	<1	0.02	16	240	7	0.02	<2	4	22
ZZ20276		10	<1	0.09	10	0.74	443	<1	0.01	21	370	15	0.02	<2	5	26
ZZ20277		10	<1	0.07	10	0.47	239	1	0.01	14	330	9	0.02	<2	4	17
ZZ20278		10	<1	0.06	10	0.51	246	<1	0.01	17	380	7	0.03	<2	5	25
ZZ20279		10	1	0.06	10	0.41	344	<1	0.01	13	330	8	0.03	<2	4	16
ZZ20280		10	<1	0.07	10	0.54	256	<1	0.01	17	350	14	0.02	<2	5	21
ZZ20201		10	<1	0.08	20	0.62	228	<1	0.01	13	340	11	0.03	<2	5	23
ZZ20202		10	<1	0.08	20	0.59	490	<1	0.01	15	510	14	0.03	<2	5	25
ZZ20203		10	<1	0.11	20	0.61	461	<1	0.01	15	580	10	0.03	3	5	26
ZZ20204		10	<1	0.06	10	0.54	607	<1	0.02	15	650	11	0.04	6	3	25
ZZ20205		10	<1	0.04	10	0.36	172	<1	0.01	11	490	12	0.04	<2	3	24
ZZ20206		<10	<1	0.05	20	0.47	1785	<1	0.02	12	820	8	0.05	<2	3	29
ZZ20207		10	<1	0.04	10	0.39	484	1	0.01	12	920	15	0.05	<2	2	23
ZZ20208		<10	<1	0.05	10	0.40	362	1	0.01	12	610	10	0.02	<2	3	20
ZZ20209		<10	<1	0.04	10	0.28	894	1	0.02	10	790	9	0.06	<2	2	24
ZZ20210		<10	<1	0.05	10	0.45	369	1	0.01	15	500	8	0.02	<2	5	24

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 9- SEP- 2011
Account: F

Project: Arcus - DAN MAN

CERTIFICATE OF ANALYSIS WH11151854

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC144871		<20	0.11	<10	<10	71	<10	59
CC144872		<20	0.10	<10	<10	65	<10	53
CC144873		<20	0.11	<10	<10	71	<10	59
CC144874		<20	0.10	<10	<10	61	<10	53
CC144875		<20	0.14	<10	<10	71	<10	64
CC144876		<20	0.12	<10	<10	61	<10	56
CC144877		<20	0.10	<10	<10	61	<10	59
CC144878		<20	0.10	<10	<10	63	<10	60
CC144879		<20	0.10	<10	<10	51	<10	52
CC144880		<20	0.09	<10	<10	55	<10	55
CC144901		<20	0.10	<10	<10	63	<10	57
CC144902		<20	0.12	<10	<10	92	<10	57
CC144903		<20	0.10	<10	<10	61	<10	51
CC144904		<20	0.11	<10	<10	61	<10	47
CC144905		<20	0.12	<10	<10	76	<10	66
CC144906		<20	0.12	<10	<10	64	<10	60
CC144907		<20	0.09	<10	<10	55	<10	41
CC144908		<20	0.12	<10	<10	69	<10	60
CC144909		<20	0.13	<10	<10	80	<10	73
CC144910		<20	0.11	<10	<10	74	<10	131
ZZ20271		<20	0.12	<10	<10	69	<10	65
ZZ20272		<20	0.12	<10	<10	71	<10	62
ZZ20273		<20	0.12	<10	<10	75	<10	63
ZZ20274		<20	0.13	<10	<10	68	<10	58
ZZ20275		<20	0.11	<10	<10	67	<10	52
ZZ20276		<20	0.12	<10	<10	74	<10	61
ZZ20277		<20	0.10	<10	<10	62	<10	47
ZZ20278		<20	0.10	<10	<10	76	<10	50
ZZ20279		<20	0.09	<10	<10	63	<10	50
ZZ20280		<20	0.11	<10	<10	77	<10	61
ZZ20201		<20	0.11	<10	<10	70	<10	62
ZZ20202		<20	0.10	<10	<10	66	<10	71
ZZ20203		<20	0.09	<10	<10	61	<10	66
ZZ20204		<20	0.08	<10	<10	53	<10	68
ZZ20205		<20	0.07	<10	<10	36	<10	48
ZZ20206		<20	0.07	<10	<10	51	<10	60
ZZ20207		<20	0.07	<10	<10	46	<10	48
ZZ20208		<20	0.08	<10	<10	43	<10	46
ZZ20209		<20	0.07	<10	<10	46	<10	39
ZZ20210		<20	0.10	<10	<10	57	<10	48

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Project: Arcus - DAN MAN

CERTIFICATE OF ANALYSIS WH11151854

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ20361		0.12	0.039	<0.2	1.17	16	<10	100	0.7	<2	0.75	<0.5	7	17	12	2.00
ZZ20362		0.24	0.050	0.2	1.51	27	<10	130	0.9	<2	0.53	<0.5	9	22	12	2.53
ZZ20363		0.22	0.026	0.2	1.45	14	<10	110	0.7	<2	0.29	<0.5	4	18	9	2.07
ZZ20364		0.18	0.026	<0.2	1.26	21	<10	80	0.5	<2	0.19	<0.5	9	19	8	2.19
ZZ20365		0.06	0.034	0.2	1.36	13	<10	140	0.5	<2	0.23	<0.5	18	19	10	2.17
ZZ20366		0.26	0.041	<0.2	1.34	21	<10	120	0.5	<2	0.27	<0.5	8	23	12	2.47
ZZ20367		0.20	0.024	<0.2	1.44	13	<10	140	1.1	<2	0.38	<0.5	10	45	13	2.58
ZZ20368		0.14	0.009	<0.2	1.46	10	<10	160	1.1	<2	0.44	<0.5	8	25	12	2.40
ZZ20369		0.16	0.013	0.2	1.23	21	<10	140	1.0	<2	0.63	<0.5	8	25	14	2.37
ZZ20370		0.32	0.023	0.2	1.46	20	<10	180	0.9	<2	0.45	<0.5	9	25	16	2.36
ZZ20021		0.32	0.015	<0.2	1.69	15	<10	170	0.6	<2	0.28	<0.5	7	27	17	2.40
ZZ20022		0.32	0.013	<0.2	1.75	18	<10	190	0.6	<2	0.32	<0.5	8	28	17	2.52
ZZ20023		0.26	0.027	<0.2	1.83	17	<10	140	0.5	<2	0.23	<0.5	7	28	16	2.42
ZZ20024		0.22	0.013	<0.2	1.57	20	<10	140	<0.5	<2	0.23	<0.5	13	25	21	2.34
ZZ20025		0.28	0.010	<0.2	1.47	12	<10	130	0.5	<2	0.29	<0.5	10	22	12	2.31
ZZ20026		0.26	0.036	0.2	1.83	19	<10	240	0.9	<2	0.36	<0.5	12	39	21	2.88
ZZ20027		0.22	0.063	<0.2	1.45	28	<10	80	<0.5	<2	0.14	<0.5	5	21	12	2.41
ZZ20028		0.42	0.001	<0.2	2.40	9	<10	180	0.7	<2	0.37	<0.5	11	43	22	3.11
ZZ20029		0.42	0.005	<0.2	2.15	6	<10	190	0.7	<2	0.49	<0.5	9	50	22	3.00
ZZ20030		0.30	<0.001	<0.2	2.78	11	<10	170	0.6	<2	0.32	<0.5	14	67	19	4.11
CC144881		0.12	0.001	<0.2	1.66	5	<10	160	<0.5	<2	0.63	<0.5	8	34	13	2.04
CC144882		0.22	0.002	<0.2	1.54	6	<10	90	<0.5	<2	0.32	<0.5	11	30	9	2.49
CC144883		0.16	<0.001	<0.2	1.21	5	<10	90	<0.5	<2	0.37	<0.5	10	25	8	2.01
CC144884		0.20	<0.001	<0.2	1.12	5	<10	70	<0.5	<2	0.36	<0.5	8	24	5	1.59
CC144885		0.12	0.006	<0.2	1.24	30	<10	100	<0.5	<2	0.38	<0.5	4	30	9	1.84
CC144886		0.24	<0.001	<0.2	1.39	12	<10	110	<0.5	<2	0.39	<0.5	11	28	7	2.10
CC144887		0.14	0.009	<0.2	1.52	29	<10	120	<0.5	<2	0.33	<0.5	12	29	10	2.50
CC144888		0.18	0.065	<0.2	1.63	114	<10	120	0.5	<2	0.39	<0.5	10	29	11	2.47
CC144889		0.24	0.023	<0.2	1.78	49	<10	140	0.7	<2	0.39	<0.5	13	33	13	2.89
CC144890		0.22	0.005	0.2	1.49	20	<10	140	0.7	<2	0.41	<0.5	8	28	12	2.44
ZZ20101		0.48	0.015	<0.2	2.31	11	<10	150	0.7	<2	0.27	<0.5	9	41	24	2.96
ZZ20102		0.42	0.006	<0.2	1.58	8	<10	100	0.5	<2	0.20	<0.5	8	31	15	2.37
ZZ20103		0.54	0.006	0.2	2.00	12	<10	200	0.7	<2	0.51	<0.5	10	40	32	2.94
ZZ20104		0.50	0.002	0.3	2.03	10	<10	210	0.6	<2	0.45	<0.5	9	39	25	2.68
ZZ20105		0.34	0.004	0.2	1.92	9	<10	220	0.5	<2	0.44	<0.5	11	37	24	2.80
ZZ20106		0.64	0.028	<0.2	2.02	12	<10	200	0.5	<2	0.41	<0.5	10	37	22	2.80
ZZ20107		0.30	0.008	0.2	1.84	13	<10	160	0.5	<2	0.31	<0.5	7	37	16	2.56
ZZ20108		0.56	0.007	<0.2	1.75	11	<10	170	<0.5	<2	0.37	<0.5	9	35	15	2.42
ZZ20109		0.36	0.006	0.2	1.77	11	<10	150	0.5	<2	0.35	<0.5	8	38	16	2.36
ZZ20110		0.44	0.011	<0.2	1.50	11	<10	120	<0.5	<2	0.47	<0.5	10	34	10	2.29

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11151854

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20361		<10	<1	0.13	70	0.32	713	1	0.01	9	570	13	0.04	<2	3	36
ZZ20362		<10	<1	0.13	90	0.42	856	1	0.01	11	560	16	0.02	<2	4	31
ZZ20363		10	<1	0.07	50	0.32	160	<1	0.01	8	200	12	0.01	<2	3	23
ZZ20364		<10	<1	0.07	20	0.35	739	1	0.01	10	330	12	0.01	2	2	16
ZZ20365		<10	<1	0.06	30	0.34	1385	1	0.01	10	690	14	0.04	<2	2	21
ZZ20366		<10	<1	0.07	30	0.39	280	1	0.01	12	730	18	0.02	<2	3	22
ZZ20367		<10	<1	0.21	40	0.64	655	1	0.01	32	750	20	0.01	<2	4	31
ZZ20368		<10	<1	0.11	100	0.39	702	1	0.01	15	450	21	0.01	<2	4	31
ZZ20369		<10	<1	0.09	50	0.36	649	2	0.02	16	650	16	0.03	<2	5	38
ZZ20370		<10	<1	0.09	50	0.44	588	1	0.01	14	600	17	0.02	<2	5	32
ZZ20021		10	<1	0.07	30	0.43	286	<1	0.01	15	410	13	0.01	2	4	24
ZZ20022		10	<1	0.07	30	0.45	331	1	0.01	16	480	13	0.02	2	4	29
ZZ20023		10	<1	0.07	20	0.44	182	<1	0.01	14	490	14	0.02	2	4	21
ZZ20024		10	<1	0.08	20	0.43	859	1	0.01	24	430	16	0.02	2	3	21
ZZ20025		<10	<1	0.09	30	0.38	636	1	0.01	14	520	13	0.02	<2	3	23
ZZ20026		10	<1	0.12	40	0.63	700	1	0.02	33	560	32	0.03	3	5	29
ZZ20027		10	<1	0.08	20	0.33	241	1	0.01	11	370	15	0.02	<2	2	14
ZZ20028		10	<1	0.07	20	0.69	320	1	0.01	21	390	15	0.01	<2	7	29
ZZ20029		10	<1	0.07	20	0.83	315	1	0.02	25	490	23	0.01	<2	8	30
ZZ20030		10	<1	0.08	10	0.80	667	1	0.01	29	530	13	0.02	<2	6	25
CC144881		10	<1	0.06	20	0.44	426	<1	0.02	15	540	10	0.04	<2	5	33
CC144882		<10	<1	0.04	10	0.41	616	1	0.01	13	450	9	0.01	<2	4	21
CC144883		<10	<1	0.05	10	0.37	788	1	0.01	12	680	9	0.02	<2	3	21
CC144884		<10	<1	0.05	10	0.43	387	<1	0.01	11	550	9	0.02	2	2	20
CC144885		<10	<1	0.05	10	0.46	116	<1	0.01	12	730	12	0.04	<2	3	23
CC144886		10	<1	0.06	10	0.55	897	1	0.01	12	650	12	0.02	<2	3	24
CC144887		10	<1	0.07	10	0.53	754	1	0.01	14	600	17	0.03	2	4	23
CC144888		10	<1	0.08	20	0.57	470	<1	0.01	13	670	12	0.02	16	4	26
CC144889		10	<1	0.20	20	0.75	663	<1	0.01	14	730	12	0.03	4	5	28
CC144890		<10	<1	0.13	30	0.54	344	<1	0.01	12	630	11	0.02	<2	4	25
ZZ20101		10	<1	0.07	20	0.60	303	1	0.01	24	390	11	0.01	<2	5	23
ZZ20102		10	<1	0.06	20	0.39	499	1	0.01	16	330	8	0.02	<2	3	19
ZZ20103		10	1	0.07	30	0.63	268	1	0.03	24	520	11	0.02	<2	7	34
ZZ20104		10	<1	0.06	20	0.58	269	1	0.03	19	450	11	0.02	<2	6	30
ZZ20105		10	<1	0.06	20	0.58	466	1	0.02	19	590	9	0.02	<2	6	31
ZZ20106		10	<1	0.05	20	0.59	229	1	0.02	19	570	8	0.01	<2	6	28
ZZ20107		10	<1	0.05	10	0.49	188	1	0.02	14	510	9	0.02	<2	4	22
ZZ20108		10	<1	0.05	20	0.55	269	1	0.02	16	500	8	0.01	<2	5	24
ZZ20109		<10	<1	0.05	10	0.54	223	1	0.02	17	500	10	0.02	<2	5	23
ZZ20110		<10	<1	0.08	10	0.53	340	1	0.02	15	510	8	0.02	<2	4	24

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Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ20361		20	0.07	<10	<10	32	<10	44
ZZ20362		20	0.08	<10	<10	38	<10	51
ZZ20363		20	0.06	<10	<10	36	<10	39
ZZ20364		<20	0.07	<10	<10	42	<10	51
ZZ20365		<20	0.06	<10	<10	40	<10	44
ZZ20366		<20	0.08	<10	<10	45	<10	54
ZZ20367		20	0.09	<10	<10	48	<10	56
ZZ20368		30	0.06	<10	<10	39	<10	58
ZZ20369		20	0.05	<10	<10	42	<10	55
ZZ20370		20	0.07	<10	<10	44	<10	58
ZZ20021		<20	0.09	<10	<10	49	<10	53
ZZ20022		<20	0.08	<10	<10	48	<10	56
ZZ20023		<20	0.08	<10	<10	46	<10	55
ZZ20024		<20	0.08	<10	<10	52	<10	62
ZZ20025		<20	0.08	<10	<10	45	<10	55
ZZ20026		<20	0.10	<10	<10	64	<10	60
ZZ20027		<20	0.09	<10	<10	50	<10	45
ZZ20028		<20	0.13	<10	<10	69	<10	56
ZZ20029		<20	0.12	<10	<10	60	<10	69
ZZ20030		<20	0.14	<10	<10	86	<10	62
CC144881		<20	0.10	<10	<10	50	<10	54
CC144882		<20	0.10	<10	<10	57	<10	48
CC144883		<20	0.08	<10	<10	47	<10	48
CC144884		<20	0.08	<10	<10	35	<10	43
CC144885		<20	0.08	<10	<10	48	<10	45
CC144886		<20	0.10	<10	<10	47	<10	60
CC144887		<20	0.10	<10	<10	59	<10	61
CC144888		<20	0.10	<10	<10	54	<10	62
CC144889		<20	0.11	<10	<10	66	<10	65
CC144890		<20	0.11	<10	<10	57	<10	49
ZZ20101		<20	0.12	<10	<10	65	<10	50
ZZ20102		<20	0.10	<10	<10	54	<10	39
ZZ20103		<20	0.13	<10	<10	70	<10	60
ZZ20104		<20	0.13	<10	<10	69	<10	55
ZZ20105		<20	0.11	<10	<10	67	<10	54
ZZ20106		<20	0.11	<10	<10	66	<10	52
ZZ20107		<20	0.09	<10	<10	64	<10	50
ZZ20108		<20	0.11	<10	<10	58	<10	54
ZZ20109		<20	0.10	<10	<10	66	<10	55
ZZ20110		<20	0.10	<10	<10	59	<10	53

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 9- SEP- 2011
Account: F

Project: Arcus - DAN MAN

CERTIFICATE OF ANALYSIS WH11151854

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ20111		0.40	0.003	0.2	1.39	<2	<10	120	<0.5	<2	0.28	<0.5	4	26	9	1.50
ZZ20112		0.32	0.004	<0.2	1.64	17	<10	150	0.5	<2	0.34	<0.5	12	37	12	2.49
ZZ20113		0.48	0.021	<0.2	1.65	50	<10	150	<0.5	<2	0.40	<0.5	9	33	11	2.52
ZZ20114		0.44	0.005	<0.2	1.81	37	<10	130	0.7	<2	0.35	<0.5	11	45	14	2.82
ZZ20115		0.30	0.029	<0.2	1.79	100	<10	180	<0.5	<2	0.46	<0.5	13	37	15	2.49
ZZ20116		0.38	<0.001	<0.2	1.71	10	<10	150	<0.5	<2	0.43	<0.5	10	35	12	2.56
ZZ20117		0.50	0.005	<0.2	1.71	5	<10	150	0.5	<2	0.42	<0.5	9	41	17	2.03
ZZ20118		0.46	0.005	<0.2	2.50	11	<10	210	1.1	2	0.58	<0.5	11	56	29	3.23
ZZ20119		0.46	0.004	<0.2	2.39	11	<10	210	1.0	<2	0.58	<0.5	12	53	27	3.28
ZZ20120		0.36	0.004	0.2	2.38	10	<10	210	1.0	<2	0.59	<0.5	12	53	31	3.28
CC144811		0.20	0.019	<0.2	1.65	20	<10	100	<0.5	<2	0.15	<0.5	6	22	11	2.63
CC144812		0.16	0.041	<0.2	1.71	27	<10	170	0.9	<2	0.40	<0.5	6	25	15	2.42
CC144813		0.18	0.024	<0.2	1.17	16	<10	80	<0.5	2	0.15	<0.5	4	21	8	1.80
CC144814		0.16	0.034	<0.2	1.56	17	<10	120	0.5	<2	0.21	<0.5	12	24	13	2.27
CC144815		0.22	0.028	<0.2	1.39	18	<10	110	0.5	<2	0.22	<0.5	10	22	10	2.46
CC144816		0.14	0.072	<0.2	1.49	23	<10	150	0.8	<2	0.22	<0.5	10	27	13	2.15
CC144817		0.22	0.006	<0.2	1.06	12	<10	60	0.5	<2	0.18	<0.5	6	23	9	1.92
CC144818		0.16	0.008	<0.2	1.15	14	<10	170	0.8	<2	0.60	<0.5	7	18	12	1.74
CC144819		0.20	0.036	<0.2	1.33	24	<10	170	0.8	<2	0.84	<0.5	11	24	18	2.24
CC144820		0.14	0.002	<0.2	1.36	10	<10	80	<0.5	<2	0.08	<0.5	4	17	7	2.15
ZZ20491		0.28	0.017	<0.2	1.77	13	<10	170	0.5	<2	0.31	<0.5	6	25	14	2.28
ZZ20492		0.16	0.007	<0.2	2.04	16	<10	210	0.6	<2	0.30	<0.5	9	29	19	2.62
ZZ20493		0.30	0.019	<0.2	1.68	16	<10	150	0.5	<2	0.26	<0.5	9	24	15	2.35
ZZ20494		0.24	0.030	<0.2	1.55	14	<10	130	<0.5	<2	0.22	<0.5	7	23	14	2.07
ZZ20495		0.16	0.011	<0.2	1.56	14	<10	150	0.5	<2	0.23	<0.5	5	23	13	1.95
ZZ20496		0.26	0.028	0.2	1.60	20	<10	130	0.5	<2	0.22	<0.5	6	23	14	1.97
ZZ20497		0.32	0.014	<0.2	1.20	15	<10	80	<0.5	<2	0.22	<0.5	6	19	10	1.84
ZZ20498		0.32	0.012	<0.2	1.48	15	<10	130	0.5	<2	0.20	<0.5	7	23	13	2.00
ZZ20499		0.34	0.011	0.2	1.65	14	<10	130	0.7	<2	0.27	<0.5	8	23	16	2.47
ZZ20500		0.14	0.001	0.2	0.50	<2	<10	40	<0.5	<2	0.11	<0.5	1	7	8	0.82
ZZ20351		0.26	0.019	0.2	2.04	12	<10	200	0.6	<2	0.41	<0.5	7	26	16	2.95
ZZ20352		0.32	0.014	0.2	1.89	9	<10	180	0.5	<2	0.40	<0.5	7	28	16	2.85
ZZ20353		0.16	0.010	0.3	2.09	10	<10	160	0.5	<2	0.40	<0.5	7	36	15	3.04
ZZ20354		0.30	0.012	0.2	1.92	8	<10	160	0.5	<2	0.43	<0.5	8	31	12	2.80
ZZ20355		0.30	0.011	0.3	1.79	8	<10	160	0.6	<2	0.41	<0.5	7	28	12	2.68
ZZ20356		0.28	0.011	0.2	1.57	6	<10	120	<0.5	<2	0.33	<0.5	7	32	11	2.45
ZZ20357		0.24	0.014	0.2	2.03	9	<10	170	0.6	<2	0.40	<0.5	8	43	14	2.93
ZZ20358		0.32	0.012	0.3	2.08	10	<10	160	0.7	<2	0.31	<0.5	8	40	14	2.96
ZZ20359		0.16	0.004	0.3	1.53	9	<10	200	0.5	<2	0.45	<0.5	6	24	13	2.49
ZZ20360		0.28	0.017	0.4	2.24	13	<10	230	1.1	<2	0.47	<0.5	8	31	17	3.10

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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11151854

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20111		10	<1	0.04	10	0.37	109	1	0.02	10	410	10	0.03	<2	3	18
ZZ20112		10	<1	0.06	20	0.60	592	1	0.02	15	600	17	0.04	<2	4	22
ZZ20113		10	<1	0.11	10	0.61	412	1	0.03	14	630	12	0.06	3	4	28
ZZ20114		10	<1	0.10	20	0.63	426	1	0.02	18	470	15	0.04	<2	5	27
ZZ20115		10	<1	0.06	10	0.56	860	1	0.03	16	650	14	0.06	5	4	33
ZZ20116		10	<1	0.09	20	0.60	267	<1	0.03	17	680	27	0.05	<2	4	28
ZZ20117		10	<1	0.13	20	0.68	215	<1	0.03	18	570	46	0.04	<2	5	26
ZZ20118		10	<1	0.26	30	0.95	312	1	0.03	24	560	14	0.04	<2	10	33
ZZ20119		10	1	0.25	30	0.95	368	1	0.03	23	570	14	0.04	<2	10	32
ZZ20120		10	<1	0.24	30	0.95	367	1	0.03	28	580	17	0.03	<2	10	33
CC144811		10	<1	0.11	20	0.40	204	2	0.02	9	290	14	0.03	<2	3	15
CC144812		10	<1	0.12	70	0.41	357	1	0.02	16	400	20	0.03	<2	4	28
CC144813		<10	<1	0.06	20	0.23	167	1	0.02	10	300	14	0.06	<2	2	14
CC144814		10	<1	0.07	30	0.36	1055	1	0.02	13	510	18	0.07	<2	3	19
CC144815		10	<1	0.12	20	0.41	760	1	0.02	10	580	23	0.07	<2	3	20
CC144816		10	<1	0.10	40	0.36	686	1	0.02	11	530	22	0.06	<2	4	23
CC144817		<10	<1	0.08	20	0.32	444	1	0.02	9	290	19	0.06	<2	2	18
CC144818		<10	1	0.08	60	0.25	502	1	0.02	10	540	14	0.07	<2	4	39
CC144819		<10	<1	0.07	40	0.42	1070	1	0.03	15	630	17	0.07	<2	4	42
CC144820		10	<1	0.05	10	0.22	173	1	0.02	6	180	10	0.04	<2	2	9
ZZ20491		10	<1	0.12	40	0.41	343	1	0.02	12	490	10	0.04	<2	4	25
ZZ20492		10	<1	0.10	40	0.41	521	1	0.02	15	590	16	0.06	<2	4	27
ZZ20493		10	<1	0.09	30	0.37	498	1	0.02	12	410	15	0.05	<2	3	22
ZZ20494		10	<1	0.07	30	0.34	339	1	0.02	11	440	16	0.06	<2	3	21
ZZ20495		10	<1	0.07	30	0.29	268	1	0.02	11	540	16	0.06	<2	3	23
ZZ20496		10	<1	0.07	40	0.32	287	1	0.02	11	460	16	0.04	2	3	21
ZZ20497		<10	<1	0.08	40	0.30	429	<1	0.02	9	420	12	0.03	<2	2	19
ZZ20498		10	1	0.07	40	0.35	252	<1	0.02	11	420	11	0.03	<2	3	19
ZZ20499		<10	<1	0.13	50	0.42	729	1	0.03	16	500	30	0.02	2	3	22
ZZ20500		<10	<1	0.04	10	0.07	71	1	0.03	4	220	7	0.02	<2	1	10
ZZ20351		10	<1	0.11	40	0.47	462	1	0.03	15	530	15	0.02	<2	4	28
ZZ20352		<10	<1	0.11	40	0.54	354	1	0.03	16	460	14	0.01	<2	4	28
ZZ20353		10	<1	0.13	30	0.62	329	1	0.03	22	510	14	0.01	<2	4	28
ZZ20354		<10	<1	0.14	40	0.58	303	1	0.03	17	450	13	0.01	2	4	28
ZZ20355		<10	<1	0.14	40	0.54	264	1	0.03	16	610	12	0.01	<2	4	27
ZZ20356		<10	<1	0.12	30	0.55	243	1	0.02	17	470	11	<0.01	<2	3	22
ZZ20357		10	<1	0.09	30	0.59	267	1	0.02	20	360	13	<0.01	<2	5	29
ZZ20358		10	<1	0.09	20	0.55	260	1	0.02	19	250	13	0.01	<2	4	24
ZZ20359		<10	<1	0.11	30	0.39	561	1	0.03	14	370	13	0.01	<2	3	31
ZZ20360		10	<1	0.15	80	0.47	604	1	0.03	17	380	15	0.02	<2	5	35

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11151854

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ20111		<20	0.08	<10	<10	41	<10	42
ZZ20112		<20	0.09	<10	<10	58	<10	63
ZZ20113		<20	0.10	<10	<10	60	<10	67
ZZ20114		<20	0.11	<10	<10	65	<10	73
ZZ20115		<20	0.09	<10	<10	60	<10	62
ZZ20116		<20	0.11	<10	<10	60	<10	66
ZZ20117		<20	0.13	<10	<10	55	<10	76
ZZ20118		<20	0.17	<10	<10	85	<10	70
ZZ20119		<20	0.16	<10	<10	82	<10	66
ZZ20120		<20	0.17	<10	<10	82	<10	71
CC144811		<20	0.08	<10	<10	43	<10	49
CC144812		20	0.06	<10	<10	41	<10	59
CC144813		<20	0.05	<10	<10	34	<10	38
CC144814		<20	0.06	<10	<10	47	<10	58
CC144815		<20	0.08	<10	<10	60	<10	51
CC144816		<20	0.05	<10	<10	47	<10	49
CC144817		<20	0.05	<10	<10	38	<10	49
CC144818		<20	0.04	<10	<10	37	<10	41
CC144819		20	0.07	<10	<10	44	<10	58
CC144820		<20	0.09	<10	<10	58	<10	31
ZZ20491		<20	0.09	<10	<10	46	<10	55
ZZ20492		<20	0.09	<10	<10	53	<10	64
ZZ20493		<20	0.09	<10	<10	49	<10	55
ZZ20494		<20	0.08	<10	<10	44	<10	49
ZZ20495		<20	0.06	<10	<10	37	<10	44
ZZ20496		<20	0.06	<10	<10	43	<10	49
ZZ20497		<20	0.07	<10	<10	37	<10	47
ZZ20498		<20	0.08	<10	<10	41	<10	51
ZZ20499		<20	0.08	<10	<10	44	<10	63
ZZ20500		<20	0.04	<10	<10	21	<10	19
ZZ20351		<20	0.10	<10	<10	52	<10	59
ZZ20352		<20	0.11	<10	<10	52	<10	59
ZZ20353		<20	0.12	<10	<10	56	<10	60
ZZ20354		<20	0.11	<10	<10	50	<10	57
ZZ20355		20	0.11	<10	<10	47	<10	56
ZZ20356		<20	0.11	<10	<10	45	<10	49
ZZ20357		<20	0.12	<10	<10	60	<10	53
ZZ20358		<20	0.11	<10	<10	63	<10	55
ZZ20359		<20	0.09	<10	<10	49	<10	64
ZZ20360		30	0.09	<10	<10	54	<10	61

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ20121		0.46	0.005	0.2	2.96	10	<10	180	0.6	<2	0.30	<0.5	11	52	19	3.92
ZZ20122		0.46	0.067	0.3	2.09	38	<10	200	0.7	<2	0.40	<0.5	9	46	28	2.87
ZZ20123		0.34	0.004	0.3	2.61	9	<10	170	0.5	<2	0.30	<0.5	14	56	20	3.64
ZZ20124		0.44	0.004	0.2	2.09	3	<10	160	0.5	<2	0.37	<0.5	8	43	22	2.92
ZZ20125		0.56	0.006	0.3	2.27	4	<10	220	0.7	<2	0.42	<0.5	9	52	25	3.17
ZZ20126		0.32	0.006	0.3	2.19	5	<10	170	<0.5	<2	0.32	<0.5	11	41	20	2.95
ZZ20127		0.54	0.011	0.3	1.98	7	<10	200	0.8	<2	0.38	<0.5	11	62	21	2.82
ZZ20128		0.32	0.018	0.2	2.53	13	<10	190	0.6	<2	0.42	<0.5	12	61	21	3.47
ZZ20129		0.28	0.008	0.5	2.60	17	<10	270	1.3	<2	0.48	<0.5	11	48	31	3.14
ZZ20130		0.52	0.006	0.2	2.28	4	<10	220	0.7	<2	0.52	<0.5	9	46	27	3.47
ZZ20181		0.40	0.005	0.2	2.06	5	<10	200	0.6	<2	0.42	<0.5	9	44	25	2.84
ZZ20182		0.16	0.002	0.3	0.81	<2	<10	100	<0.5	<2	0.22	<0.5	14	17	19	1.41
ZZ20183		0.32	0.009	0.2	2.51	5	<10	190	0.5	<2	0.35	<0.5	7	41	19	3.01
ZZ20184		0.22	0.007	<0.2	0.80	<2	<10	100	<0.5	<2	0.12	<0.5	3	14	9	1.31
ZZ20185		0.46	0.008	0.2	2.24	4	<10	170	0.5	<2	0.37	<0.5	7	40	22	2.89
ZZ20186		0.42	0.012	0.2	2.47	11	<10	240	0.8	<2	0.42	<0.5	8	45	25	3.16
ZZ20187		0.46	0.014	0.3	1.99	6	<10	180	0.5	<2	0.41	<0.5	7	41	23	2.74
ZZ20188		0.50	0.009	0.2	2.50	8	<10	240	0.6	<2	0.47	<0.5	9	50	23	3.41
ZZ20189		0.48	0.007	0.3	1.98	3	<10	190	0.5	<2	0.42	<0.5	8	41	20	2.76
ZZ20190		0.40	0.040	0.2	1.93	29	<10	180	0.7	<2	0.44	<0.5	8	43	23	2.79
CC144891		0.26	0.006	0.2	2.12	5	<10	160	0.8	<2	0.38	<0.5	14	61	22	3.36
CC144892		0.20	0.002	0.2	2.15	8	<10	140	<0.5	<2	0.27	<0.5	9	39	15	3.35
CC144893		0.18	0.003	0.2	2.18	9	<10	130	0.5	<2	0.22	<0.5	17	42	16	3.28
CC144894		0.30	0.022	0.2	2.28	11	<10	180	0.6	<2	0.38	<0.5	10	42	18	3.38
CC144895		0.26	0.008	<0.2	1.98	11	<10	170	0.7	<2	0.27	<0.5	9	38	24	2.90
CC144896		0.22	0.043	<0.2	1.33	75	<10	130	0.5	<2	0.23	<0.5	6	29	13	2.91
CC144897		0.14	0.006	<0.2	1.87	12	<10	110	<0.5	<2	0.23	<0.5	7	33	13	3.06
CC144898		0.18	0.004	<0.2	2.29	12	<10	160	0.5	<2	0.22	<0.5	8	39	17	3.64
CC144899		0.30	0.007	<0.2	2.14	12	<10	260	0.7	<2	0.44	<0.5	11	43	19	3.01
CC144900		0.30	0.007	<0.2	2.43	18	<10	190	0.6	<2	0.32	<0.5	9	47	17	3.69
CC144931		0.28	0.011	<0.2	2.09	26	<10	160	0.5	<2	0.33	<0.5	9	39	13	3.17
CC144932		0.34	0.007	<0.2	2.12	12	<10	140	<0.5	<2	0.29	<0.5	9	43	15	3.27
CC144933		0.24	0.004	<0.2	1.97	10	<10	150	<0.5	<2	0.32	<0.5	8	36	14	3.00
CC144934		0.26	0.010	<0.2	2.04	17	<10	210	0.5	<2	0.38	<0.5	9	39	16	2.93
CC144935		0.26	0.023	<0.2	2.12	12	<10	230	0.7	<2	0.41	<0.5	8	38	20	2.77
CC144936		0.22	0.010	<0.2	1.53	17	<10	190	0.7	<2	0.88	<0.5	10	32	18	2.43
CC144937		0.20	0.003	<0.2	1.87	8	<10	210	0.8	<2	0.69	<0.5	12	45	18	2.79
CC144938		0.24	0.003	0.2	1.96	7	<10	240	0.6	<2	0.56	<0.5	12	42	21	2.76
CC144939		0.32	0.002	<0.2	2.01	7	<10	170	0.6	<2	0.41	<0.5	10	41	18	2.86
CC144940		0.16	0.004	0.2	1.45	5	<10	100	<0.5	<2	0.23	<0.5	4	27	12	2.04

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 9- SEP- 2011
Account: F

Project: Arcus - DAN MAN

CERTIFICATE OF ANALYSIS WH11151854

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20121		10	<1	0.07	10	0.73	325	1	0.03	29	220	14	0.02	<2	6	25
ZZ20122		<10	<1	0.07	20	0.58	222	1	0.02	25	530	20	0.01	2	7	30
ZZ20123		10	<1	0.14	10	1.07	437	1	0.03	28	400	12	0.02	<2	6	23
ZZ20124		10	<1	0.06	20	0.63	173	1	0.03	23	470	11	0.02	<2	6	26
ZZ20125		10	<1	0.09	20	0.77	302	1	0.03	26	510	12	0.02	<2	8	30
ZZ20126		10	<1	0.06	10	0.55	497	1	0.02	23	450	13	0.02	<2	4	26
ZZ20127		<10	<1	0.12	20	0.66	298	<1	0.02	27	430	16	0.02	<2	7	26
ZZ20128		10	<1	0.12	10	0.97	400	1	0.03	30	460	10	0.02	<2	6	28
ZZ20129		10	<1	0.09	30	0.46	558	1	0.03	27	730	15	0.05	<2	6	33
ZZ20130		10	<1	0.09	20	0.85	358	1	0.04	27	420	19	0.02	<2	9	37
ZZ20181		<10	<1	0.06	20	0.62	254	1	0.03	23	460	12	0.01	<2	7	29
ZZ20182		<10	<1	0.04	10	0.17	902	1	0.04	17	440	10	0.03	<2	1	19
ZZ20183		10	<1	0.06	10	0.56	227	1	0.03	22	450	12	0.02	<2	5	28
ZZ20184		10	<1	0.04	10	0.11	168	1	0.03	7	380	11	0.02	<2	1	14
ZZ20185		10	<1	0.05	20	0.60	207	<1	0.03	21	430	12	0.02	2	6	27
ZZ20186		10	<1	0.07	20	0.62	273	1	0.03	24	520	13	0.03	2	7	32
ZZ20187		<10	<1	0.06	20	0.59	216	1	0.03	23	470	12	0.02	2	6	31
ZZ20188		10	<1	0.12	20	0.76	247	1	0.03	26	460	13	0.02	<2	7	27
ZZ20189		<10	<1	0.07	20	0.60	241	1	0.03	22	590	11	0.02	<2	5	29
ZZ20190		<10	<1	0.07	20	0.63	226	1	0.03	23	490	14	0.02	3	6	29
CC144891		10	<1	0.11	20	0.99	424	1	0.02	46	550	12	0.02	<2	6	25
CC144892		10	<1	0.07	10	0.60	344	1	0.02	21	360	16	0.02	<2	5	20
CC144893		10	<1	0.11	10	0.68	772	1	0.02	22	410	19	0.02	2	6	17
CC144894		10	<1	0.07	20	0.64	381	1	0.03	25	430	15	0.02	<2	6	25
CC144895		10	<1	0.04	20	0.52	370	1	0.01	24	270	13	0.01	<2	5	23
CC144896		10	<1	0.06	10	0.38	386	1	0.01	13	320	13	0.01	25	5	23
CC144897		10	<1	0.05	10	0.54	262	1	0.01	16	320	74	0.01	<2	4	20
CC144898		10	<1	0.06	10	0.54	398	2	0.01	18	330	14	0.01	2	5	20
CC144899		10	<1	0.06	20	0.64	588	1	0.01	20	590	11	0.02	<2	6	33
CC144900		10	<1	0.06	10	0.68	406	1	0.01	23	350	26	0.01	2	5	27
CC144931		10	<1	0.05	10	0.68	316	1	0.01	18	400	7	0.01	2	5	20
CC144932		10	<1	0.05	10	0.67	335	1	0.01	19	290	8	0.01	<2	5	22
CC144933		10	<1	0.06	10	0.57	340	1	0.01	17	420	12	0.01	<2	5	24
CC144934		10	<1	0.05	10	0.56	323	1	0.01	17	510	16	0.01	<2	6	27
CC144935		10	<1	0.05	20	0.49	320	1	0.01	18	520	12	0.02	2	6	29
CC144936		<10	<1	0.08	20	0.42	622	1	0.02	18	700	9	0.04	3	5	41
CC144937		10	<1	0.16	20	0.73	588	<1	0.02	25	670	11	0.03	2	6	35
CC144938		10	<1	0.06	20	0.67	624	1	0.02	22	640	9	0.02	<2	5	34
CC144939		10	<1	0.05	20	0.73	345	1	0.01	19	320	10	0.01	<2	5	26
CC144940		10	<1	0.06	10	0.39	149	1	0.02	12	230	8	0.02	<2	3	20

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North Vancouver BC V7H 0A7
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Project: Arcus - DAN MAN

CERTIFICATE OF ANALYSIS WH11151854

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ20121		<20	0.15	<10	<10	92	<10	58
ZZ20122		<20	0.12	<10	<10	70	<10	75
ZZ20123		<20	0.17	<10	<10	89	<10	63
ZZ20124		<20	0.14	<10	<10	68	<10	54
ZZ20125		<20	0.14	<10	<10	73	<10	57
ZZ20126		<20	0.12	<10	<10	73	<10	57
ZZ20127		<20	0.13	<10	<10	65	<10	53
ZZ20128		<20	0.15	<10	<10	80	<10	55
ZZ20129		<20	0.08	<10	<10	69	<10	57
ZZ20130		<20	0.16	<10	<10	72	<10	65
ZZ20181		<20	0.14	<10	<10	72	<10	54
ZZ20182		<20	0.05	<10	<10	31	<10	30
ZZ20183		<20	0.12	<10	<10	65	<10	53
ZZ20184		<20	0.06	<10	<10	39	<10	22
ZZ20185		<20	0.14	<10	<10	67	<10	52
ZZ20186		<20	0.12	<10	<10	71	<10	58
ZZ20187		<20	0.13	<10	<10	65	<10	51
ZZ20188		<20	0.14	<10	<10	78	<10	58
ZZ20189		<20	0.11	<10	<10	62	<10	51
ZZ20190		<20	0.13	<10	<10	62	<10	60
CC144891		<20	0.13	<10	<10	83	<10	52
CC144892		<20	0.13	<10	<10	82	<10	60
CC144893		<20	0.14	<10	<10	78	<10	54
CC144894		<20	0.12	<10	<10	72	<10	59
CC144895		<20	0.10	<10	<10	64	<10	55
CC144896		<20	0.10	<10	<10	70	<10	70
CC144897		<20	0.12	<10	<10	74	<10	79
CC144898		<20	0.12	<10	<10	100	<10	58
CC144899		<20	0.09	<10	<10	67	<10	62
CC144900		<20	0.11	<10	<10	87	<10	63
CC144931		<20	0.10	<10	<10	66	<10	48
CC144932		<20	0.12	<10	<10	72	<10	52
CC144933		<20	0.12	<10	<10	68	<10	51
CC144934		<20	0.10	<10	<10	64	<10	57
CC144935		<20	0.09	<10	<10	59	<10	54
CC144936		<20	0.07	<10	<10	51	<10	52
CC144937		<20	0.10	<10	<10	62	<10	52
CC144938		<20	0.10	<10	<10	63	<10	51
CC144939		<20	0.11	<10	<10	65	<10	48
CC144940		<20	0.10	<10	<10	51	<10	38

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Project: Arcus - DAN MAN

CERTIFICATE OF ANALYSIS WH11151854

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144941		0.12	0.003	<0.2	1.20	6	<10	80	<0.5	<2	0.12	<0.5	5	25	12	2.14
CC144942		0.34	0.004	<0.2	1.65	7	<10	140	0.8	<2	0.45	<0.5	10	37	15	2.85
CC144943		0.28	0.004	<0.2	2.01	10	<10	140	<0.5	<2	0.40	<0.5	8	39	14	3.05
CC144944		0.24	0.004	<0.2	2.08	7	<10	180	0.7	<2	0.54	<0.5	10	49	17	2.99
CC144945		0.30	0.003	<0.2	2.15	6	<10	200	1.1	<2	0.61	<0.5	11	46	20	2.93
CC144946		0.16	0.004	0.2	2.12	7	<10	220	0.6	<2	0.57	<0.5	9	44	18	2.92
CC144947		0.22	0.009	<0.2	1.64	14	<10	200	0.7	<2	1.04	<0.5	10	42	17	2.40
CC144948		0.18	0.009	<0.2	1.76	8	<10	230	0.6	<2	0.72	<0.5	10	35	19	2.42
CC144949		0.32	0.014	<0.2	1.93	16	<10	180	0.6	<2	0.39	<0.5	9	40	22	2.90
CC144950		0.18	0.005	<0.2	2.15	16	<10	180	0.6	<2	0.31	<0.5	10	46	18	3.34
CC144801		0.20	0.015	<0.2	1.59	11	<10	160	0.5	<2	0.32	<0.5	6	23	16	2.33
CC144802		0.26	0.023	<0.2	1.78	17	<10	160	0.6	<2	0.30	<0.5	8	26	15	2.70
CC144803		0.22	0.024	0.2	1.89	19	<10	180	0.7	<2	0.40	<0.5	11	40	16	2.67
CC144804		0.24	0.017	<0.2	1.85	15	<10	150	0.7	<2	0.42	<0.5	9	44	13	2.67
CC144805		0.18	0.026	<0.2	1.96	18	<10	190	0.7	<2	0.48	<0.5	8	55	16	2.61
CC144806		0.12	0.028	<0.2	1.95	18	<10	210	0.6	<2	0.52	<0.5	7	38	15	2.37
CC144807		0.34	0.019	<0.2	1.72	16	<10	160	0.5	<2	0.40	<0.5	7	37	12	2.49
CC144808		0.22	0.016	<0.2	1.60	12	<10	130	<0.5	<2	0.36	<0.5	6	35	13	2.38
CC144809		0.18	0.014	0.2	1.78	12	<10	240	0.9	<2	0.58	<0.5	10	31	18	2.58
CC144810		0.20	0.056	0.2	1.74	18	<10	170	1.1	<2	0.36	<0.5	8	27	18	2.77
ZZ20291		0.22	0.006	<0.2	2.12	15	<10	220	0.5	<2	0.63	<0.5	12	45	16	3.14
ZZ20292		0.16	0.007	0.3	1.31	10	<10	70	<0.5	2	0.12	<0.5	4	21	19	2.08
ZZ20293		0.36	0.070	<0.2	2.09	53	<10	170	0.6	<2	0.25	<0.5	9	34	15	3.11
ZZ20294		0.20	0.021	0.2	3.56	33	<10	470	1.3	4	0.70	0.6	12	56	37	4.10
ZZ20295		0.36	0.005	0.2	2.33	19	<10	190	0.7	2	0.36	<0.5	11	43	18	3.43
ZZ20296		0.24	0.065	0.3	3.03	87	<10	240	1.0	3	0.18	0.5	12	53	22	3.99
ZZ20297		0.18	0.002	0.4	1.60	10	<10	80	<0.5	2	0.10	<0.5	6	26	12	2.65
ZZ20298		0.24	0.004	<0.2	1.87	11	<10	80	<0.5	2	0.11	<0.5	6	31	15	2.98
ZZ20299		0.38	0.005	<0.2	2.59	11	<10	140	0.5	<2	0.25	<0.5	12	39	18	3.60
ZZ20300		0.24	0.009	<0.2	2.46	10	<10	230	0.6	<2	0.27	<0.5	9	42	18	3.51
CC144911		0.28	0.098	0.3	1.69	41	<10	170	0.9	3	0.29	<0.5	8	33	14	2.84
CC144912		0.24	0.008	<0.2	2.01	10	<10	170	0.8	<2	0.47	<0.5	8	41	17	2.76
CC144913		0.32	0.005	0.2	2.19	12	<10	150	0.5	3	0.27	<0.5	8	37	12	2.78
CC144914		0.16	0.003	0.3	3.00	7	<10	250	0.9	<2	0.43	<0.5	20	111	31	4.26
CC144915		0.28	0.002	0.4	2.44	10	<10	200	0.7	2	0.32	<0.5	13	44	17	3.31
CC144916		0.22	0.003	0.3	2.17	11	<10	190	0.6	2	0.32	<0.5	11	45	18	2.82
CC144917		0.32	0.003	0.2	2.29	9	<10	210	0.7	3	0.33	<0.5	11	45	19	3.01
CC144918		0.28	0.004	<0.2	2.18	7	<10	220	0.6	2	0.49	<0.5	12	55	21	3.00
CC144919		0.30	0.007	0.3	2.37	10	<10	220	1.0	<2	0.64	<0.5	13	69	27	3.28
CC144920		0.26	0.009	0.2	1.85	9	<10	200	0.6	<2	0.69	<0.5	8	35	18	2.51

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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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144941		10	<1	0.05	10	0.32	228	1	0.01	10	690	10	0.01	<2	2	11
CC144942		10	<1	0.32	20	0.88	459	2	0.01	16	690	17	0.01	<2	5	23
CC144943		10	<1	0.07	10	0.70	310	1	0.01	19	280	11	0.01	2	4	26
CC144944		10	<1	0.29	30	0.99	384	<1	0.01	20	660	12	0.01	2	6	30
CC144945		10	<1	0.34	40	0.99	408	<1	0.01	21	670	11	0.02	<2	7	29
CC144946		10	<1	0.09	10	0.62	426	1	0.02	22	290	12	0.02	<2	5	36
CC144947		10	<1	0.10	20	0.55	503	<1	0.02	21	660	13	0.05	4	5	45
CC144948		10	<1	0.06	20	0.48	555	1	0.02	17	710	10	0.05	<2	5	42
CC144949		10	<1	0.10	20	0.69	310	1	0.01	27	460	14	0.01	2	5	26
CC144950		10	<1	0.11	10	0.68	416	1	0.01	22	610	17	0.02	2	6	24
CC144801		10	<1	0.11	30	0.42	333	1	0.01	12	460	10	0.01	<2	3	25
CC144802		10	<1	0.11	30	0.46	396	1	0.01	13	450	11	0.01	<2	4	25
CC144803		10	<1	0.19	40	0.64	598	1	0.01	27	620	13	0.01	3	4	30
CC144804		10	<1	0.20	30	0.72	360	1	0.01	21	570	10	0.01	2	4	29
CC144805		10	<1	0.12	40	0.56	404	1	0.01	19	520	11	0.02	2	4	33
CC144806		10	<1	0.10	30	0.43	408	1	0.01	16	490	10	0.03	2	4	36
CC144807		10	<1	0.08	30	0.51	320	1	0.01	15	480	10	0.01	2	4	29
CC144808		10	<1	0.09	20	0.50	262	1	0.01	15	570	9	0.01	2	3	25
CC144809		10	<1	0.11	80	0.45	1360	1	0.01	16	650	12	0.03	<2	5	41
CC144810		10	<1	0.12	90	0.43	458	1	0.01	14	370	15	0.01	<2	6	29
ZZ20291		10	<1	0.09	10	0.69	750	<1	0.02	23	610	10	0.01	<2	6	34
ZZ20292		<10	1	0.04	10	0.23	159	1	0.02	17	530	9	<0.01	<2	1	14
ZZ20293		<10	<1	0.07	10	0.56	339	<1	0.02	21	350	21	<0.01	2	5	20
ZZ20294		10	<1	0.10	40	0.69	726	1	0.02	35	940	18	0.04	<2	10	46
ZZ20295		10	<1	0.12	10	0.83	396	<1	0.02	23	690	12	<0.01	<2	5	24
ZZ20296		10	<1	0.09	20	0.62	475	<1	0.02	26	370	21	<0.01	9	7	22
ZZ20297		10	<1	0.04	10	0.33	182	1	0.02	14	240	9	<0.01	<2	3	12
ZZ20298		10	<1	0.06	10	0.41	213	1	0.02	16	290	10	<0.01	<2	3	14
ZZ20299		10	<1	0.09	10	0.92	353	<1	0.02	21	480	6	<0.01	4	5	19
ZZ20300		10	<1	0.08	10	0.70	331	1	0.02	18	320	10	<0.01	<2	4	25
CC144911		<10	<1	0.14	20	0.56	316	<1	0.02	16	480	12	<0.01	12	6	23
CC144912		10	<1	0.04	40	0.53	288	<1	0.02	21	550	8	<0.01	3	7	27
CC144913		10	<1	0.05	10	0.55	192	<1	0.02	20	440	16	<0.01	<2	4	19
CC144914		10	<1	0.11	30	1.92	663	<1	0.02	88	510	7	<0.01	2	12	28
CC144915		10	<1	0.05	20	0.78	797	1	0.02	22	330	16	<0.01	<2	5	24
CC144916		10	<1	0.05	20	0.72	275	<1	0.02	21	410	7	<0.01	<2	4	26
CC144917		10	<1	0.05	20	0.71	517	<1	0.02	24	320	7	<0.01	<2	5	24
CC144918		<10	<1	0.08	20	0.89	504	<1	0.02	30	440	6	<0.01	<2	6	28
CC144919		10	<1	0.14	40	0.91	419	<1	0.02	41	650	14	<0.01	2	10	27
CC144920		10	<1	0.06	30	0.51	366	<1	0.02	20	620	12	0.01	<2	6	34

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 9- SEP- 2011
Account: F

Project: Arcus - DAN MAN

CERTIFICATE OF ANALYSIS WH11151854

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144941		<20	0.09	<10	<10	62	<10	39
CC144942		<20	0.13	<10	<10	53	<10	48
CC144943		<20	0.12	<10	<10	70	<10	51
CC144944		<20	0.13	<10	<10	62	<10	53
CC144945		20	0.12	<10	<10	58	<10	51
CC144946		<20	0.12	<10	<10	71	<10	55
CC144947		<20	0.09	<10	<10	53	<10	55
CC144948		<20	0.08	<10	<10	54	<10	54
CC144949		<20	0.12	<10	<10	63	<10	60
CC144950		<20	0.13	<10	<10	74	<10	57
CC144801		<20	0.09	<10	<10	43	<10	50
CC144802		<20	0.10	<10	<10	49	<10	53
CC144803		<20	0.11	<10	<10	50	<10	50
CC144804		<20	0.12	<10	<10	51	<10	51
CC144805		<20	0.10	<10	<10	50	<10	54
CC144806		<20	0.09	<10	<10	47	<10	54
CC144807		<20	0.10	<10	<10	50	<10	50
CC144808		<20	0.10	<10	<10	47	<10	48
CC144809		<20	0.08	<10	<10	46	<10	55
CC144810		30	0.09	<10	<10	45	<10	57
ZZ20291		<20	0.09	<10	<10	81	<10	68
ZZ20292		<20	0.07	<10	<10	49	<10	30
ZZ20293		<20	0.09	<10	<10	60	<10	62
ZZ20294		<20	0.07	<10	<10	83	<10	91
ZZ20295		<20	0.11	<10	<10	70	<10	64
ZZ20296		<20	0.07	<10	<10	81	<10	87
ZZ20297		<20	0.09	<10	<10	66	<10	42
ZZ20298		<20	0.10	<10	<10	71	<10	44
ZZ20299		<20	0.14	<10	<10	76	<10	54
ZZ20300		<20	0.14	<10	<10	87	<10	44
CC144911		<20	0.08	<10	<10	61	<10	58
CC144912		<20	0.10	<10	<10	62	<10	48
CC144913		<20	0.10	<10	<10	58	<10	47
CC144914		<20	0.10	<10	<10	98	<10	46
CC144915		20	0.10	<10	<10	67	<10	54
CC144916		<20	0.10	<10	<10	66	<10	45
CC144917		20	0.10	<10	<10	68	<10	45
CC144918		<20	0.11	<10	<10	67	<10	46
CC144919		<20	0.09	<10	<10	69	<10	51
CC144920		<20	0.09	<10	<10	54	<10	49

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North Vancouver BC V7H 0A7
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Project: Arcus - DAN MAN

CERTIFICATE OF ANALYSIS WH11151854

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144791		0.18	0.066	0.2	1.82	33	<10	160	0.6	<2	0.24	<0.5	9	28	15	2.64
CC144792		0.16	0.019	0.2	1.84	16	<10	190	0.6	3	0.25	<0.5	9	27	17	2.52
CC144793		0.24	0.013	<0.2	1.75	14	<10	190	0.6	<2	0.25	<0.5	9	25	16	2.47
CC144794		0.20	0.010	0.5	1.79	12	<10	180	0.5	3	0.25	<0.5	10	26	14	2.37
CC144795		0.18	0.016	0.4	1.80	23	<10	200	0.6	4	0.27	<0.5	9	25	15	2.25
CC144796		0.06	0.050	<0.2	2.22	17	<10	220	0.7	4	0.34	0.5	6	30	20	2.46
CC144797		0.24	0.020	0.2	1.85	13	<10	160	0.6	<2	0.25	<0.5	8	27	15	2.60
CC144798		0.22	0.021	<0.2	2.13	16	<10	200	0.5	2	0.29	<0.5	8	30	22	2.75
CC144799		0.22	0.033	0.3	2.02	17	<10	190	0.6	2	0.39	<0.5	8	26	19	2.63
CC144800		0.26	0.038	0.3	2.03	24	<10	200	0.6	4	0.38	<0.5	9	28	19	2.78
ZZ20001		0.24	0.016	0.2	1.46	20	<10	100	<0.5	2	0.22	<0.5	6	20	12	2.07
ZZ20002		0.24	0.014	<0.2	2.05	16	<10	180	0.7	3	0.36	<0.5	11	25	17	2.72
ZZ20003		0.34	0.011	<0.2	1.49	10	<10	140	1.0	<2	0.47	<0.5	8	29	12	2.41
ZZ20004		0.40	0.015	0.2	1.45	14	<10	130	0.8	<2	0.44	<0.5	7	20	12	2.34
ZZ20005		0.36	0.042	0.2	1.44	28	<10	180	0.8	2	0.66	<0.5	10	28	22	2.53
ZZ20006		0.38	0.036	<0.2	1.78	19	<10	200	1.3	3	0.50	0.5	9	29	14	2.83
ZZ20007		0.30	0.018	0.2	1.53	13	<10	140	0.8	<2	0.22	<0.5	9	24	12	2.22
ZZ20008		0.18	0.050	0.3	1.38	22	<10	150	1.0	2	0.28	0.5	7	21	14	2.21
ZZ20009		0.30	0.009	<0.2	1.40	13	<10	160	<0.5	<2	0.45	0.6	7	30	11	2.23
ZZ20010		0.34	0.013	0.2	1.95	17	<10	140	0.5	<2	0.23	0.5	9	38	10	2.84
ZZ20011		0.36	0.015	0.2	1.95	18	<10	170	0.5	<2	0.37	0.5	8	39	10	2.67
ZZ20012		0.26	0.030	0.2	2.11	17	<10	220	0.6	<2	0.39	0.5	11	29	14	2.66
ZZ20013		0.32	0.036	0.2	1.89	20	<10	150	0.5	<2	0.26	0.6	9	26	11	2.68
ZZ20014		0.30	0.022	0.2	1.74	16	<10	160	0.5	<2	0.29	0.5	7	24	13	2.32
ZZ20015		0.38	0.028	<0.2	1.48	9	<10	140	0.5	<2	0.30	<0.5	7	22	13	2.17
ZZ20016		0.40	0.047	0.2	1.78	22	<10	170	0.5	<2	0.30	0.5	8	26	14	2.52
ZZ20017		0.30	0.030	<0.2	1.90	21	<10	160	0.5	<2	0.26	0.5	9	27	14	2.78
ZZ20018		0.34	0.019	<0.2	1.99	16	<10	230	0.6	<2	0.31	0.5	8	31	21	2.55
ZZ20019		0.30	0.063	<0.2	1.46	45	<10	120	0.5	<2	0.23	0.6	9	23	12	2.40
ZZ20020		0.34	0.014	<0.2	1.87	15	<10	190	0.6	<2	0.28	0.5	9	29	18	2.65
ZZ20481		0.28	0.026	<0.2	1.54	11	<10	160	0.7	<2	0.46	<0.5	9	28	19	2.49
ZZ20482		0.24	0.004	<0.2	1.64	9	<10	130	0.5	2	0.20	<0.5	8	25	11	2.59
ZZ20483		0.32	0.009	<0.2	2.07	14	<10	190	0.6	<2	0.27	0.5	8	31	12	3.04
ZZ20484		0.30	0.008	0.2	1.70	11	<10	130	<0.5	<2	0.28	<0.5	8	27	10	2.54
ZZ20485		0.26	0.013	0.2	1.74	8	<10	170	0.5	<2	0.31	<0.5	8	28	14	2.36
ZZ20486		0.32	0.009	<0.2	1.68	9	<10	140	<0.5	<2	0.29	0.5	6	25	13	2.32
ZZ20487		0.34	0.010	<0.2	1.76	11	<10	150	<0.5	<2	0.33	0.5	8	28	17	2.44
ZZ20488		0.36	0.012	0.3	1.92	12	<10	170	0.5	<2	0.36	<0.5	8	29	18	2.55
ZZ20489		0.40	0.017	<0.2	1.87	10	<10	200	0.8	<2	0.55	0.5	10	69	28	2.71
ZZ20490		0.24	0.019	0.2	1.88	15	<10	180	0.5	<2	0.36	0.5	7	29	15	2.39

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
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CERTIFICATE OF ANALYSIS WH11151854

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144791		<10	<1	0.07	20	0.45	383	<1	0.02	15	470	11	<0.01	3	4	22
CC144792		<10	<1	0.06	20	0.43	258	<1	0.03	16	510	11	<0.01	<2	4	25
CC144793		10	<1	0.06	20	0.40	356	<1	0.02	15	460	11	<0.01	3	4	24
CC144794		<10	<1	0.05	20	0.42	464	<1	0.02	13	470	10	<0.01	<2	3	25
CC144795		<10	1	0.07	30	0.38	413	<1	0.02	14	650	13	0.01	<2	3	27
CC144796		<10	<1	0.08	60	0.43	205	<1	0.02	17	510	23	0.01	<2	4	31
CC144797		<10	<1	0.09	30	0.42	475	<1	0.02	13	400	17	<0.01	<2	3	22
CC144798		<10	<1	0.09	30	0.46	280	<1	0.02	20	410	18	<0.01	<2	4	26
CC144799		<10	<1	0.13	40	0.46	445	1	0.02	16	580	12	0.01	<2	4	29
CC144800		10	<1	0.10	40	0.46	436	<1	0.02	15	560	10	<0.01	<2	4	28
ZZ20001		<10	<1	0.10	30	0.34	345	<1	0.02	13	490	14	0.01	<2	2	21
ZZ20002		10	<1	0.07	20	0.63	804	<1	0.02	14	570	11	<0.01	2	5	27
ZZ20003		<10	1	0.12	50	0.49	353	1	0.02	12	530	14	<0.01	2	4	27
ZZ20004		<10	<1	0.11	50	0.41	417	1	0.02	11	420	28	<0.01	<2	4	26
ZZ20005		<10	1	0.10	40	0.48	510	1	0.03	19	570	16	0.01	<2	5	34
ZZ20006		<10	<1	0.17	60	0.57	617	1	0.02	16	590	17	<0.01	<2	5	39
ZZ20007		<10	<1	0.09	30	0.37	530	1	0.02	14	420	24	0.02	<2	3	23
ZZ20008		<10	1	0.12	50	0.36	447	1	0.03	13	560	23	0.04	<2	3	22
ZZ20009		<10	1	0.17	20	0.42	911	1	0.03	15	440	12	0.01	3	3	30
ZZ20010		10	1	0.10	20	0.58	266	1	0.02	17	420	16	0.01	<2	3	18
ZZ20011		<10	<1	0.11	20	0.55	321	1	0.03	18	460	13	0.01	<2	3	23
ZZ20012		10	1	0.11	40	0.49	585	1	0.03	16	460	16	0.02	<2	4	29
ZZ20013		10	<1	0.11	30	0.46	548	<1	0.02	13	470	15	0.01	<2	3	20
ZZ20014		10	<1	0.10	30	0.40	277	1	0.03	13	410	17	0.01	<2	3	23
ZZ20015		<10	<1	0.11	30	0.39	341	<1	0.03	12	470	14	0.01	<2	3	22
ZZ20016		<10	<1	0.10	30	0.45	404	1	0.03	16	430	16	0.01	<2	3	22
ZZ20017		10	<1	0.09	20	0.47	481	1	0.02	14	370	18	0.01	2	3	21
ZZ20018		<10	1	0.08	20	0.49	287	<1	0.03	18	470	15	0.01	2	5	26
ZZ20019		<10	<1	0.09	30	0.39	558	1	0.03	15	550	21	0.01	<2	2	18
ZZ20020		10	<1	0.08	20	0.49	259	<1	0.03	17	530	13	0.01	<2	5	23
ZZ20481		<10	<1	0.11	50	0.52	378	<1	0.04	19	600	15	0.02	<2	4	28
ZZ20482		<10	1	0.14	20	0.40	375	1	0.02	13	250	13	0.01	<2	3	19
ZZ20483		<10	<1	0.10	20	0.49	486	1	0.02	17	370	13	0.01	<2	3	23
ZZ20484		10	1	0.09	20	0.49	328	1	0.02	14	420	14	<0.01	<2	3	20
ZZ20485		<10	<1	0.08	30	0.48	221	1	0.03	15	500	12	0.01	<2	4	23
ZZ20486		<10	<1	0.08	20	0.47	176	<1	0.03	14	430	14	0.01	<2	3	22
ZZ20487		<10	1	0.11	30	0.52	241	<1	0.03	17	490	13	0.01	<2	4	24
ZZ20488		<10	1	0.12	30	0.54	283	<1	0.03	17	570	15	0.01	<2	4	26
ZZ20489		<10	<1	0.30	40	0.91	298	<1	0.03	49	900	17	0.01	<2	6	33
ZZ20490		<10	1	0.13	40	0.45	328	<1	0.03	17	510	15	0.02	<2	3	26

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144791		<20	0.07	<10	<10	50	<10	56
CC144792		<20	0.06	<10	<10	50	<10	51
CC144793		<20	0.07	<10	<10	47	<10	48
CC144794		<20	0.06	<10	<10	48	<10	49
CC144795		<20	0.04	<10	<10	41	<10	52
CC144796		<20	0.06	<10	<10	45	<10	58
CC144797		<20	0.08	<10	<10	49	<10	53
CC144798		<20	0.09	<10	<10	54	<10	60
CC144799		<20	0.08	<10	<10	49	<10	55
CC144800		<20	0.08	<10	<10	50	<10	57
ZZ20001		<20	0.06	<10	<10	39	<10	51
ZZ20002		<20	0.04	<10	<10	52	<10	64
ZZ20003		20	0.06	<10	<10	45	<10	49
ZZ20004		30	0.06	<10	<10	38	<10	48
ZZ20005		20	0.07	<10	<10	48	<10	66
ZZ20006		20	0.05	<10	<10	48	<10	65
ZZ20007		<20	0.05	<10	<10	43	<10	48
ZZ20008		<20	0.06	<10	<10	39	<10	50
ZZ20009		<20	0.09	<10	<10	46	<10	58
ZZ20010		<20	0.10	<10	<10	56	<10	53
ZZ20011		<20	0.09	<10	<10	53	<10	53
ZZ20012		<20	0.08	<10	<10	52	<10	60
ZZ20013		<20	0.09	<10	<10	54	<10	58
ZZ20014		<20	0.08	<10	<10	45	<10	49
ZZ20015		<20	0.08	<10	<10	41	<10	48
ZZ20016		<20	0.08	<10	<10	48	<10	55
ZZ20017		<20	0.09	<10	<10	56	<10	56
ZZ20018		<20	0.08	<10	<10	52	<10	57
ZZ20019		<20	0.06	<10	<10	44	<10	56
ZZ20020		<20	0.08	<10	<10	54	<10	57
ZZ20481		20	0.09	<10	<10	48	<10	57
ZZ20482		<20	0.07	<10	<10	47	<10	46
ZZ20483		<20	0.07	<10	<10	60	<10	57
ZZ20484		<20	0.09	<10	<10	52	<10	49
ZZ20485		<20	0.08	<10	<10	46	<10	51
ZZ20486		<20	0.09	<10	<10	47	<10	49
ZZ20487		<20	0.10	<10	<10	47	<10	57
ZZ20488		<20	0.09	<10	<10	47	<10	62
ZZ20489		20	0.13	<10	<10	55	<10	60
ZZ20490		<20	0.08	<10	<10	44	<10	54

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

Finalized Date: 23- SEP- 2011
Account: F

CERTIFICATE WH11152744

Project: DAN MAN - ARCUS

P.O. No.:

This report is for 180 Soil samples submitted to our lab in Whitehorse, YT, Canada on 7- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH11152744

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ21301		0.22	0.005	<0.2	1.80	5	<10	220	<0.5	<2	0.56	<0.5	13	30	46	3.18
ZZ21302		0.20	0.007	<0.2	1.41	4	<10	310	<0.5	<2	0.92	<0.5	11	26	79	2.45
ZZ21303		0.22	0.002	<0.2	1.60	2	<10	260	<0.5	<2	0.99	<0.5	11	27	100	2.29
ZZ21304		0.08	0.001	<0.2	1.01	2	<10	340	<0.5	<2	2.61	<0.5	8	21	35	1.74
ZZ21305		0.16	0.001	<0.2	2.05	6	<10	390	<0.5	<2	0.82	<0.5	15	37	113	3.40
ZZ21306		0.18	0.001	<0.2	1.67	7	<10	290	<0.5	<2	0.90	<0.5	12	31	48	2.81
ZZ21307		0.30	0.002	<0.2	1.66	9	<10	270	<0.5	<2	0.34	<0.5	10	38	30	2.89
ZZ21308		0.28	0.001	<0.2	1.95	6	<10	290	<0.5	<2	0.40	<0.5	11	41	26	3.17
ZZ21309		0.20	0.002	<0.2	2.31	5	<10	270	<0.5	<2	0.34	<0.5	15	69	40	3.70
ZZ21310		0.18	0.001	<0.2	2.20	2	<10	790	0.6	<2	0.93	<0.5	17	201	57	3.28
ZZ21311		0.22	<0.001	<0.2	2.31	4	<10	560	0.8	<2	0.34	<0.5	12	65	20	3.38
ZZ21312		0.26	0.001	<0.2	1.85	11	<10	380	0.5	<2	0.28	<0.5	11	102	25	3.01
ZZ21313		0.18	0.007	<0.2	2.02	7	<10	520	0.5	<2	0.63	<0.5	13	128	31	3.23
ZZ21314		0.22	0.005	0.2	1.88	6	<10	590	1.0	<2	1.20	<0.5	15	128	47	3.66
ZZ21315		0.14	0.004	<0.2	1.92	3	<10	370	0.5	<2	1.37	<0.5	12	33	70	3.01
ZZ21316		0.18	0.004	<0.2	1.98	4	<10	190	<0.5	<2	0.80	<0.5	13	41	26	3.18
ZZ21317		0.20	0.004	<0.2	1.87	7	<10	200	<0.5	<2	1.02	<0.5	11	35	46	2.97
ZZ21318		0.16	0.002	<0.2	1.80	3	<10	220	0.5	<2	0.90	<0.5	9	25	38	2.77
ZZ21319		0.20	0.003	<0.2	1.51	<2	<10	300	0.5	<2	0.98	<0.5	12	25	92	2.44
ZZ21320		0.20	0.002	<0.2	1.93	7	<10	260	<0.5	<2	0.65	<0.5	10	39	32	3.26
ZZ21321		0.22	0.001	<0.2	1.92	8	<10	210	<0.5	<2	0.44	<0.5	11	39	27	3.21
ZZ21322		0.26	0.002	<0.2	1.66	5	<10	230	<0.5	<2	0.45	<0.5	10	32	27	2.83
ZZ21323		0.16	0.003	<0.2	2.00	3	<10	230	<0.5	<2	0.71	<0.5	15	24	52	3.39
ZZ21324		0.20	<0.001	<0.2	1.60	2	<10	340	<0.5	<2	0.75	<0.5	8	32	48	2.94
ZZ21325		0.12	0.009	<0.2	1.42	7	<10	530	<0.5	<2	1.66	<0.5	10	37	40	2.42
ZZ21326		0.28	0.005	<0.2	1.77	16	<10	310	0.7	<2	0.31	<0.5	8	22	29	3.06
ZZ21327		0.16	<0.001	0.2	1.06	5	<10	310	<0.5	<2	0.33	<0.5	5	14	14	2.35
ZZ21328		0.20	0.001	<0.2	2.14	7	<10	280	<0.5	<2	0.23	<0.5	10	29	18	3.42
ZZ21329		0.22	0.003	<0.2	1.78	9	<10	290	0.5	<2	0.47	<0.5	15	63	32	3.25
ZZ21330		0.18	0.001	<0.2	1.75	6	<10	750	0.5	<2	0.83	<0.5	14	83	45	3.02
ZZ20311		0.20	0.062	<0.2	1.65	25	<10	150	<0.5	<2	0.27	<0.5	6	24	12	1.94
ZZ20312		0.20	0.016	<0.2	1.50	7	<10	120	<0.5	<2	0.20	<0.5	6	22	12	2.02
ZZ20313		0.34	0.023	<0.2	1.63	10	<10	120	<0.5	<2	0.21	<0.5	7	25	14	2.16
ZZ20314		0.32	0.012	<0.2	1.73	12	<10	160	0.5	<2	0.28	<0.5	9	28	15	2.24
ZZ20315		0.30	0.021	<0.2	1.94	16	<10	180	0.6	<2	0.25	<0.5	9	27	17	2.67
ZZ20316		0.38	0.096	<0.2	1.51	14	<10	140	0.5	<2	0.30	<0.5	6	24	14	2.02
ZZ20317		0.24	0.057	<0.2	1.82	15	<10	190	0.5	<2	0.36	<0.5	8	27	14	2.40
ZZ20318		0.46	0.012	<0.2	1.71	10	<10	140	<0.5	<2	0.31	<0.5	7	32	14	2.23
ZZ20319		0.40	0.007	<0.2	1.68	14	<10	120	<0.5	<2	0.29	<0.5	14	35	12	2.69
ZZ20320		0.32	0.005	<0.2	1.79	13	<10	130	<0.5	<2	0.25	<0.5	13	30	10	2.89

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1016- 510 W HASTINGS ST
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Finalized Date: 23- SEP- 2011
Account: F

Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152744

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ21301		10	<1	0.17	10	1.01	349	1	0.03	19	790	3	0.03	<2	4	37
ZZ21302		<10	<1	0.12	10	0.70	366	1	0.03	15	840	2	0.06	<2	5	46
ZZ21303		<10	<1	0.16	10	0.93	227	<1	0.03	15	450	3	0.06	<2	3	69
ZZ21304		<10	<1	0.24	10	0.61	384	<1	0.03	15	720	3	0.14	<2	3	126
ZZ21305		10	<1	0.50	10	1.17	592	<1	0.03	26	1190	3	0.04	<2	6	67
ZZ21306		10	<1	0.07	10	0.73	386	<1	0.03	21	710	2	0.06	<2	5	90
ZZ21307		<10	<1	0.16	10	0.57	288	<1	0.02	22	380	4	0.02	<2	6	29
ZZ21308		10	<1	0.17	10	0.75	284	1	0.02	23	220	5	0.02	<2	5	24
ZZ21309		10	<1	0.57	20	1.10	456	1	0.02	43	500	7	0.03	<2	5	24
ZZ21310		10	<1	0.73	20	1.83	557	<1	0.03	72	1080	5	0.04	<2	6	40
ZZ21311		10	<1	0.54	20	1.43	301	<1	0.02	34	320	11	0.03	<2	6	22
ZZ21312		10	<1	0.25	10	1.01	245	<1	0.02	43	360	5	0.03	<2	4	23
ZZ21313		10	<1	0.30	30	1.19	513	<1	0.03	42	610	4	0.03	<2	7	33
ZZ21314		10	<1	0.19	40	1.10	534	<1	0.04	55	880	7	0.04	<2	13	44
ZZ21315		10	<1	0.08	10	0.70	761	<1	0.04	22	420	4	0.03	<2	7	45
ZZ21316		10	<1	0.06	10	0.92	610	<1	0.04	18	310	4	0.03	<2	8	28
ZZ21317		10	<1	0.07	10	0.81	400	<1	0.03	19	560	3	0.04	<2	6	37
ZZ21318		<10	<1	0.05	20	0.57	412	1	0.03	15	330	7	0.04	<2	6	36
ZZ21319		<10	1	0.05	20	0.49	651	1	0.03	21	440	5	0.05	<2	6	41
ZZ21320		10	<1	0.14	10	0.97	319	<1	0.03	18	390	3	0.02	<2	6	28
ZZ21321		10	<1	0.08	10	0.62	297	1	0.02	23	480	7	0.02	<2	5	29
ZZ21322		10	<1	0.06	10	0.59	331	<1	0.03	17	480	4	0.02	<2	6	28
ZZ21323		10	<1	0.29	<10	1.22	349	<1	0.04	14	1870	<2	0.02	<2	4	34
ZZ21324		10	<1	0.24	10	0.85	335	<1	0.04	17	560	3	0.04	<2	5	37
ZZ21325		<10	<1	0.26	20	0.66	385	1	0.03	30	700	8	0.08	<2	4	60
ZZ21326		<10	<1	0.17	30	0.40	260	1	0.03	17	280	11	0.02	<2	7	24
ZZ21327		<10	<1	0.23	10	0.31	298	1	0.02	7	220	4	0.02	<2	4	23
ZZ21328		10	<1	0.29	10	0.83	361	<1	0.02	14	350	4	0.02	<2	7	21
ZZ21329		10	<1	0.25	20	0.86	422	2	0.02	43	680	10	0.02	<2	4	26
ZZ21330		10	<1	0.23	20	0.96	398	2	0.03	48	880	7	0.04	<2	5	41
ZZ20311		<10	<1	0.08	30	0.36	167	<1	0.02	13	520	12	0.05	<2	3	24
ZZ20312		<10	<1	0.06	30	0.30	256	<1	0.02	9	550	11	0.05	<2	3	19
ZZ20313		<10	<1	0.07	20	0.37	269	<1	0.02	12	490	14	0.04	<2	3	19
ZZ20314		10	<1	0.11	30	0.43	442	<1	0.02	15	480	12	0.03	<2	3	24
ZZ20315		10	<1	0.10	40	0.41	505	<1	0.02	13	580	12	0.04	<2	5	23
ZZ20316		<10	<1	0.11	40	0.37	300	<1	0.02	13	610	9	0.03	<2	3	24
ZZ20317		10	<1	0.07	40	0.45	284	2	0.02	16	610	12	0.04	2	3	28
ZZ20318		<10	<1	0.10	30	0.51	201	<1	0.01	17	520	10	0.02	<2	3	25
ZZ20319		10	<1	0.10	30	0.50	731	<1	0.01	17	490	10	0.02	<2	3	23
ZZ20320		10	1	0.07	20	0.47	683	<1	0.01	13	360	9	0.02	<2	3	21

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Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152744

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ21301		<20	0.14	<10	<10	70	<10	59
ZZ21302		<20	0.09	<10	<10	59	<10	50
ZZ21303		<20	0.11	<10	<10	61	<10	42
ZZ21304		<20	0.07	<10	<10	39	<10	41
ZZ21305		<20	0.15	<10	<10	88	<10	65
ZZ21306		<20	0.08	<10	<10	70	<10	41
ZZ21307		<20	0.11	<10	<10	68	<10	54
ZZ21308		<20	0.12	<10	<10	75	<10	53
ZZ21309		<20	0.14	<10	<10	69	<10	69
ZZ21310		<20	0.15	<10	<10	78	<10	60
ZZ21311		<20	0.15	<10	<10	65	<10	71
ZZ21312		<20	0.14	<10	<10	69	<10	52
ZZ21313		<20	0.13	<10	<10	78	<10	52
ZZ21314		<20	0.10	<10	<10	81	<10	67
ZZ21315		<20	0.08	<10	<10	70	<10	48
ZZ21316		<20	0.06	<10	<10	77	<10	45
ZZ21317		<20	0.06	<10	<10	66	<10	46
ZZ21318		<20	0.05	<10	<10	57	<10	57
ZZ21319		<20	0.06	<10	<10	58	<10	49
ZZ21320		<20	0.12	<10	<10	89	<10	58
ZZ21321		<20	0.10	<10	<10	73	<10	53
ZZ21322		<20	0.10	<10	<10	72	<10	43
ZZ21323		<20	0.18	<10	<10	91	<10	61
ZZ21324		<20	0.13	<10	<10	71	<10	60
ZZ21325		<20	0.07	<10	<10	46	<10	63
ZZ21326		<20	0.03	<10	<10	43	<10	66
ZZ21327		<20	0.07	<10	<10	44	<10	36
ZZ21328		<20	0.13	<10	<10	81	<10	67
ZZ21329		<20	0.13	<10	<10	57	<10	68
ZZ21330		<20	0.12	<10	<10	57	<10	61
ZZ20311		<20	0.06	<10	<10	40	<10	52
ZZ20312		<20	0.05	<10	<10	36	<10	43
ZZ20313		<20	0.07	<10	<10	47	<10	51
ZZ20314		<20	0.08	<10	<10	49	<10	56
ZZ20315		<20	0.08	<10	<10	52	<10	58
ZZ20316		<20	0.08	<10	<10	42	<10	50
ZZ20317		<20	0.07	<10	<10	45	<10	56
ZZ20318		<20	0.09	<10	<10	44	<10	49
ZZ20319		<20	0.10	<10	<10	59	<10	51
ZZ20320		<20	0.10	<10	<10	63	<10	50

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CERTIFICATE OF ANALYSIS WH11152744

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ20321		0.46	0.001	<0.2	1.58	9	<10	260	<0.5	<2	0.24	<0.5	7	24	11	2.64
ZZ20322		0.40	0.002	<0.2	1.28	7	<10	140	<0.5	<2	0.22	<0.5	5	19	9	2.14
ZZ20323		0.46	0.013	<0.2	1.35	7	<10	120	0.6	<2	0.18	<0.5	6	23	11	2.17
ZZ20324		0.54	0.006	<0.2	1.47	6	<10	140	<0.5	<2	0.29	<0.5	7	22	10	2.09
ZZ20325		0.40	0.006	<0.2	1.53	7	<10	190	0.6	<2	0.44	<0.5	10	23	16	2.30
ZZ20326		0.36	0.004	<0.2	1.28	6	<10	130	0.8	<2	0.40	<0.5	7	20	11	2.11
ZZ20327		0.36	0.007	<0.2	1.72	13	<10	160	0.6	<2	0.25	<0.5	8	24	10	2.39
ZZ20328		0.28	0.025	0.2	1.37	22	<10	170	0.8	<2	0.86	<0.5	9	22	14	2.38
ZZ20329		0.26	0.012	<0.2	1.58	15	<10	220	0.5	<2	0.89	<0.5	11	27	16	2.48
ZZ20330		0.44	0.010	<0.2	1.84	14	<10	210	0.5	<2	0.54	<0.5	10	31	19	2.86
ZZ20431		0.18	0.009	<0.2	0.96	11	<10	40	<0.5	<2	0.12	<0.5	7	16	4	1.58
ZZ20432		0.52	0.007	<0.2	1.46	7	<10	100	0.8	<2	0.29	<0.5	8	19	10	2.19
ZZ20433		0.22	0.008	<0.2	1.84	9	<10	150	0.5	<2	0.26	<0.5	8	25	11	2.36
ZZ20434		0.20	0.022	<0.2	1.74	8	<10	210	1.0	<2	0.28	<0.5	8	24	15	2.25
ZZ20435		0.26	0.003	<0.2	1.58	8	<10	160	0.8	<2	0.28	<0.5	8	24	11	2.32
ZZ20436		0.28	0.005	<0.2	1.01	4	<10	120	0.7	<2	0.24	<0.5	7	18	10	1.76
ZZ20437		0.18	0.005	<0.2	0.97	8	<10	190	0.9	<2	0.23	<0.5	6	22	12	1.81
ZZ20438		0.36	0.004	<0.2	1.27	11	<10	100	<0.5	<2	0.22	<0.5	12	24	8	2.28
ZZ20439		0.18	0.006	<0.2	1.59	14	<10	100	<0.5	<2	0.15	<0.5	7	32	12	2.65
ZZ20440		0.24	0.007	<0.2	1.51	11	<10	110	<0.5	<2	0.22	<0.5	20	30	10	2.31
ZZ20451		0.20	0.010	<0.2	1.71	11	<10	220	0.5	<2	0.67	<0.5	10	32	22	2.81
ZZ20452		0.42	0.005	<0.2	1.96	6	<10	290	1.0	<2	0.56	<0.5	10	29	20	2.87
ZZ20453		0.28	0.001	<0.2	1.27	7	<10	130	<0.5	<2	0.20	<0.5	5	18	12	1.71
ZZ20454		0.32	0.005	<0.2	1.53	6	<10	140	0.5	<2	0.28	<0.5	7	24	13	2.28
ZZ20455		0.24	0.008	<0.2	1.83	9	<10	180	0.7	<2	0.31	<0.5	6	27	17	2.31
ZZ20456		0.30	0.006	<0.2	1.36	7	<10	90	<0.5	<2	0.23	<0.5	5	21	9	2.20
ZZ20457		0.28	0.007	<0.2	1.69	11	<10	130	<0.5	<2	0.23	<0.5	9	28	13	2.67
ZZ20458		0.28	0.008	<0.2	1.75	11	<10	160	0.5	<2	0.32	<0.5	10	31	15	2.63
ZZ20459		0.30	0.014	<0.2	1.56	10	<10	120	<0.5	<2	0.27	<0.5	6	26	12	2.26
ZZ20460		0.28	0.016	<0.2	1.29	7	<10	130	<0.5	<2	0.29	<0.5	5	21	12	1.89
ZZ20461		0.30	0.024	<0.2	1.69	10	<10	170	0.5	<2	0.31	<0.5	7	26	13	2.40
ZZ20462		0.24	0.013	<0.2	1.54	8	<10	160	0.5	<2	0.28	<0.5	6	23	14	2.21
ZZ20463		0.20	0.025	<0.2	1.65	15	<10	160	0.5	4	0.25	<0.5	8	26	19	2.32
ZZ20464		0.28	0.032	<0.2	1.67	18	<10	130	0.6	2	0.26	<0.5	17	48	16	2.53
ZZ20465		0.30	0.017	<0.2	1.78	17	<10	130	<0.5	3	0.23	<0.5	11	27	12	2.43
ZZ20466		0.20	0.015	<0.2	1.57	15	<10	110	<0.5	6	0.17	<0.5	8	22	12	2.16
ZZ20467		0.12	0.023	<0.2	1.46	18	<10	150	<0.5	5	0.25	<0.5	6	21	12	2.04
ZZ20468		0.14	0.008	<0.2	1.49	9	<10	130	<0.5	4	0.25	<0.5	7	21	10	1.84
ZZ20469		0.12	0.010	<0.2	1.35	14	<10	120	<0.5	6	0.23	<0.5	7	20	11	1.96
ZZ20470		0.22	0.011	<0.2	1.39	15	<10	100	<0.5	7	0.21	<0.5	6	21	9	2.12

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23- SEP- 2011
Account: F

Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152744

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20321		10	<1	0.06	20	0.38	687	2	0.01	12	210	12	0.02	<2	3	25
ZZ20322		<10	1	0.05	10	0.31	211	1	0.01	10	150	13	0.01	<2	2	22
ZZ20323		<10	<1	0.07	10	0.36	162	1	0.01	12	120	13	0.01	<2	2	19
ZZ20324		<10	<1	0.06	30	0.39	234	<1	0.01	11	490	10	0.02	<2	3	24
ZZ20325		10	<1	0.06	40	0.44	623	2	0.02	15	490	12	0.01	<2	4	31
ZZ20326		<10	<1	0.07	100	0.37	335	2	0.01	12	400	13	0.01	<2	4	26
ZZ20327		10	<1	0.07	40	0.39	434	2	0.02	10	280	14	0.01	<2	3	18
ZZ20328		<10	1	0.07	40	0.42	733	3	0.02	13	680	18	0.04	<2	4	42
ZZ20329		<10	<1	0.05	20	0.51	671	2	0.03	15	670	9	0.04	<2	4	51
ZZ20330		10	<1	0.06	20	0.59	359	2	0.03	18	620	12	0.02	<2	4	35
ZZ20431		<10	<1	0.08	20	0.29	433	2	0.01	8	340	15	0.01	<2	2	10
ZZ20432		10	<1	0.10	80	0.37	880	2	0.02	10	540	18	0.02	2	3	20
ZZ20433		10	<1	0.08	50	0.43	347	2	0.02	14	440	15	0.01	<2	3	21
ZZ20434		10	<1	0.08	80	0.35	551	2	0.02	14	690	12	0.04	2	4	23
ZZ20435		10	<1	0.09	80	0.39	336	2	0.01	13	390	11	0.02	2	3	24
ZZ20436		<10	<1	0.09	70	0.26	498	2	0.02	12	570	11	0.02	2	2	20
ZZ20437		10	<1	0.07	40	0.19	397	2	0.02	11	420	12	0.03	2	3	16
ZZ20438		10	<1	0.11	30	0.38	957	2	0.02	11	550	12	0.02	3	2	20
ZZ20439		10	<1	0.07	10	0.43	379	2	0.02	17	330	19	0.02	<2	3	14
ZZ20440		10	<1	0.08	30	0.47	1520	2	0.02	16	490	34	0.02	<2	3	20
ZZ20451		10	<1	0.06	20	0.65	435	2	0.04	22	730	7	0.02	2	4	41
ZZ20452		10	<1	0.11	60	0.52	708	2	0.02	20	500	11	0.02	<2	7	39
ZZ20453		10	<1	0.06	30	0.28	201	2	0.02	9	280	7	0.01	3	3	17
ZZ20454		<10	<1	0.09	40	0.39	392	<1	<0.01	11	490	13	<0.01	<2	3	24
ZZ20455		10	<1	0.09	100	0.36	260	1	<0.01	13	580	14	0.02	<2	4	31
ZZ20456		<10	<1	0.11	30	0.38	263	<1	<0.01	10	340	9	<0.01	<2	2	21
ZZ20457		10	<1	0.06	20	0.43	491	<1	<0.01	14	410	12	<0.01	<2	3	21
ZZ20458		10	<1	0.07	30	0.45	460	<1	<0.01	16	600	12	<0.01	<2	4	27
ZZ20459		10	<1	0.07	20	0.43	167	<1	<0.01	13	500	10	<0.01	<2	3	22
ZZ20460		<10	<1	0.07	20	0.34	155	<1	<0.01	11	550	9	0.01	<2	2	24
ZZ20461		10	<1	0.08	30	0.46	276	<1	<0.01	13	590	12	<0.01	2	4	26
ZZ20462		<10	<1	0.08	30	0.41	215	<1	<0.01	12	520	10	0.01	<2	3	25
ZZ20463		<10	<1	0.09	40	0.41	279	2	0.01	17	700	17	0.02	<2	3	22
ZZ20464		<10	<1	0.18	50	0.63	1025	2	0.01	37	750	18	0.01	<2	4	24
ZZ20465		<10	<1	0.08	30	0.46	533	2	0.01	15	520	15	0.01	<2	3	20
ZZ20466		<10	<1	0.06	20	0.33	174	2	0.01	12	490	12	0.03	<2	2	19
ZZ20467		<10	<1	0.07	30	0.33	210	2	0.01	12	580	14	0.03	<2	3	22
ZZ20468		10	<1	0.07	30	0.35	212	2	0.02	12	560	12	0.02	<2	3	23
ZZ20469		<10	<1	0.07	30	0.31	193	2	0.01	11	580	11	0.02	<2	2	21
ZZ20470		<10	<1	0.08	30	0.34	199	2	0.01	10	620	12	0.02	<2	2	18

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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CERTIFICATE OF ANALYSIS WH11152744

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ20321		<20	0.08	<10	<10	60	<10	38
ZZ20322		<20	0.05	<10	<10	43	<10	33
ZZ20323		<20	0.05	<10	<10	42	<10	30
ZZ20324		<20	0.07	<10	<10	40	<10	45
ZZ20325		20	0.08	<10	<10	46	<10	52
ZZ20326		40	0.06	<10	<10	34	<10	44
ZZ20327		20	0.07	<10	<10	49	<10	44
ZZ20328		<20	0.06	<10	<10	45	<10	59
ZZ20329		<20	0.08	<10	<10	53	<10	61
ZZ20330		<20	0.10	<10	<10	60	<10	66
ZZ20431		<20	0.03	<10	<10	23	<10	32
ZZ20432		30	0.04	<10	<10	34	<10	50
ZZ20433		<20	0.06	<10	<10	46	<10	58
ZZ20434		<20	0.05	<10	<10	37	<10	52
ZZ20435		<20	0.06	<10	<10	41	<10	56
ZZ20436		<20	0.05	<10	<10	32	<10	41
ZZ20437		<20	0.05	<10	<10	35	<10	34
ZZ20438		<20	0.07	<10	<10	44	<10	49
ZZ20439		<20	0.09	<10	<10	63	<10	46
ZZ20440		<20	0.07	<10	<10	50	<10	62
ZZ20451		<20	0.10	<10	<10	67	<10	64
ZZ20452		20	0.08	<10	<10	55	<10	62
ZZ20453		<20	0.06	<10	<10	37	<10	36
ZZ20454		<20	0.08	<10	<10	44	<10	49
ZZ20455		<20	0.06	<10	<10	42	<10	52
ZZ20456		<20	0.08	<10	<10	43	<10	48
ZZ20457		<20	0.08	<10	<10	60	<10	52
ZZ20458		<20	0.07	<10	<10	54	<10	54
ZZ20459		<20	0.08	<10	<10	42	<10	50
ZZ20460		<20	0.06	<10	<10	34	<10	44
ZZ20461		<20	0.08	<10	<10	44	<10	59
ZZ20462		<20	0.07	<10	<10	39	<10	55
ZZ20463		<20	0.06	<10	<10	43	<10	58
ZZ20464		<20	0.08	<10	<10	46	<10	52
ZZ20465		<20	0.07	<10	<10	45	<10	57
ZZ20466		<20	0.05	<10	<10	39	<10	45
ZZ20467		<20	0.06	<10	<10	39	<10	47
ZZ20468		<20	0.06	<10	<10	28	<10	47
ZZ20469		<20	0.05	<10	<10	35	<10	46
ZZ20470		<20	0.06	<10	<10	44	<10	49

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH11152744

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ20471		0.14	0.007	<0.2	1.15	9	<10	90	<0.5	4	0.18	<0.5	5	18	8	1.59
ZZ20472		0.22	0.004	<0.2	0.81	8	<10	60	<0.5	5	0.08	<0.5	4	9	6	1.41
ZZ20473		0.20	0.009	0.3	1.27	15	<10	130	<0.5	5	0.20	<0.5	5	15	15	2.22
ZZ20474		0.20	0.014	<0.2	1.91	10	<10	230	0.9	6	0.79	<0.5	12	41	18	2.67
ZZ20475		0.22	0.013	<0.2	1.55	12	<10	190	0.8	4	0.90	<0.5	13	27	14	2.57
ZZ20476		0.28	0.016	<0.2	1.53	14	<10	160	0.7	6	0.55	<0.5	10	25	16	2.55
ZZ20477		0.18	0.037	<0.2	1.38	18	<10	140	0.5	4	0.25	<0.5	12	24	12	2.27
ZZ20478		0.24	0.018	<0.2	1.52	14	<10	140	<0.5	4	0.34	<0.5	8	26	13	2.26
ZZ20479		0.22	0.040	<0.2	1.68	22	<10	170	0.6	4	0.31	<0.5	11	28	16	2.66
ZZ20480		0.10	0.035	<0.2	1.61	17	<10	220	0.7	5	0.64	<0.5	10	22	14	2.30
ZZ20501		0.20	0.015	<0.2	1.33	13	<10	190	0.5	4	1.35	<0.5	11	33	23	2.66
ZZ20502		0.28	0.003	<0.2	0.98	7	<10	130	1.0	5	0.76	<0.5	5	22	13	1.33
ZZ20503		0.32	0.004	<0.2	1.65	10	<10	230	0.7	3	0.52	<0.5	9	32	21	2.50
ZZ20504		0.32	0.004	<0.2	1.54	5	<10	160	1.3	4	0.47	<0.5	9	35	15	2.64
ZZ20505		0.38	0.007	<0.2	1.78	14	<10	160	0.7	3	0.32	<0.5	10	28	11	2.75
ZZ20506		0.30	0.007	<0.2	1.43	9	<10	130	<0.5	2	0.31	<0.5	7	24	10	2.34
ZZ20507		0.36	0.001	<0.2	1.63	10	<10	140	<0.5	4	0.35	<0.5	8	29	11	2.63
ZZ20508		0.38	0.006	<0.2	2.11	14	<10	300	1.3	4	0.52	<0.5	12	34	26	3.19
ZZ20509		0.28	0.003	<0.2	1.72	13	<10	210	0.5	4	0.31	<0.5	8	30	11	2.78
ZZ20510		0.24	0.004	<0.2	1.72	12	<10	220	0.5	4	0.36	<0.5	7	34	12	2.59
ZZ20511		0.30	0.008	<0.2	2.03	14	<10	240	0.6	4	0.49	<0.5	9	36	17	2.92
ZZ20512		0.38	0.003	<0.2	2.78	10	<10	270	0.8	4	0.30	<0.5	10	42	22	3.26
ZZ20513		0.36	0.001	<0.2	2.38	12	<10	150	0.6	3	0.18	<0.5	8	29	14	2.88
ZZ20514		0.30	0.002	<0.2	1.11	7	<10	80	0.7	4	0.14	<0.5	6	13	8	1.81
ZZ20515		0.42	0.003	<0.2	1.91	9	<10	190	0.8	2	0.20	<0.5	8	31	15	2.54
ZZ20516		0.36	0.002	<0.2	1.52	10	<10	100	0.5	5	0.14	<0.5	7	22	12	2.33
ZZ20517		0.30	0.003	<0.2	0.60	7	<10	180	1.3	4	0.42	<0.5	5	11	6	1.27
ZZ20518		0.36	0.001	<0.2	0.60	4	<10	130	1.2	4	0.67	<0.5	4	14	9	1.22
ZZ20519		0.28	0.003	1.1	0.55	4	<10	30	0.6	4	0.32	<0.5	3	5	7	0.85
ZZ20520		0.22	<0.001	<0.2	0.85	8	<10	60	<0.5	5	0.12	<0.5	5	10	5	1.65
ZZ20521		0.30	0.007	<0.2	1.77	15	<10	140	0.6	4	0.27	<0.5	10	39	17	2.77
ZZ20522		0.28	0.001	<0.2	1.37	11	<10	160	<0.5	3	0.19	<0.5	8	26	10	2.38
ZZ20523		0.30	0.001	<0.2	1.98	10	<10	250	0.5	4	0.57	<0.5	13	47	21	3.21
ZZ20524		0.28	0.001	<0.2	1.63	10	<10	210	<0.5	3	0.40	<0.5	9	28	12	2.54
ZZ20525		0.34	0.002	<0.2	1.48	10	<10	230	<0.5	4	0.22	<0.5	8	23	10	2.13
ZZ20526		0.30	0.002	<0.2	1.58	12	<10	190	0.5	2	0.37	<0.5	9	30	14	2.59
ZZ20527		0.34	0.003	<0.2	1.97	17	<10	270	0.6	4	0.57	<0.5	12	35	17	3.07
ZZ20528		0.32	0.003	<0.2	1.88	15	<10	290	0.7	2	0.71	<0.5	14	37	28	3.02
ZZ20529		0.36	<0.001	<0.2	1.31	12	<10	90	<0.5	3	0.24	<0.5	8	11	12	2.22
ZZ20530		0.32	0.002	<0.2	1.24	8	<10	120	<0.5	4	0.33	<0.5	6	22	9	2.27

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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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20471		<10	<1	0.07	20	0.28	122	1	0.01	9	510	11	0.02	<2	2	17
ZZ20472		<10	<1	0.05	10	0.14	115	2	0.01	6	270	12	<0.01	<2	1	9
ZZ20473		10	<1	0.08	10	0.28	379	2	0.01	9	330	31	0.01	<2	2	15
ZZ20474		<10	<1	0.23	110	0.76	593	3	0.02	18	730	26	0.03	<2	5	40
ZZ20475		<10	<1	0.09	50	0.61	809	2	0.02	16	700	19	0.02	<2	4	50
ZZ20476		<10	<1	0.10	50	0.54	445	2	0.02	16	700	19	0.02	<2	4	35
ZZ20477		<10	<1	0.07	20	0.40	644	2	0.01	12	750	18	0.03	<2	3	24
ZZ20478		<10	<1	0.07	20	0.49	232	2	0.02	14	670	14	0.02	<2	3	26
ZZ20479		<10	<1	0.07	30	0.51	614	2	0.02	15	650	14	0.02	<2	3	25
ZZ20480		<10	<1	0.09	70	0.40	1275	2	0.02	15	640	14	0.03	<2	4	39
ZZ20501		<10	<1	0.14	30	0.52	355	1	0.02	21	800	12	0.04	<2	4	73
ZZ20502		<10	<1	0.09	40	0.30	133	1	0.01	10	470	16	0.02	<2	4	35
ZZ20503		<10	<1	0.05	30	0.48	223	2	0.02	19	550	10	<0.01	<2	5	34
ZZ20504		10	<1	0.26	40	0.55	273	3	0.01	18	570	14	0.01	<2	6	39
ZZ20505		<10	<1	0.12	20	0.55	305	2	0.01	13	270	13	<0.01	<2	4	27
ZZ20506		<10	<1	0.09	20	0.48	190	2	0.01	12	250	10	<0.01	<2	3	23
ZZ20507		<10	<1	0.09	10	0.55	273	2	0.01	16	260	8	<0.01	<2	3	23
ZZ20508		10	<1	0.11	70	0.55	779	3	0.02	28	480	30	0.01	<2	7	32
ZZ20509		<10	<1	0.08	20	0.51	261	2	0.01	16	270	11	<0.01	<2	4	24
ZZ20510		<10	<1	0.07	20	0.51	290	2	0.01	19	410	9	<0.01	<2	4	29
ZZ20511		<10	<1	0.10	30	0.58	404	2	0.02	21	430	12	<0.01	<2	5	32
ZZ20512		10	<1	0.05	20	0.55	242	2	0.01	26	170	13	<0.01	<2	5	30
ZZ20513		<10	1	0.08	10	0.38	191	2	0.01	17	180	12	<0.01	<2	3	20
ZZ20514		<10	<1	0.08	30	0.22	188	1	0.01	8	220	11	<0.01	<2	2	19
ZZ20515		<10	<1	0.06	30	0.45	242	2	0.01	14	150	9	<0.01	<2	4	22
ZZ20516		<10	<1	0.06	20	0.32	287	2	0.01	12	200	11	<0.01	<2	3	18
ZZ20517		<10	<1	0.08	40	0.12	335	2	0.01	7	350	17	<0.01	<2	3	38
ZZ20518		<10	<1	0.08	50	0.17	172	2	0.01	8	440	18	0.03	<2	3	27
ZZ20519		<10	<1	0.11	40	0.15	70	3	0.01	8	170	23	0.01	<2	1	18
ZZ20520		<10	<1	0.08	10	0.18	86	2	0.01	8	120	9	0.01	<2	1	16
ZZ20521		<10	<1	0.21	20	0.54	326	2	0.01	23	260	19	<0.01	<2	4	21
ZZ20522		<10	<1	0.10	10	0.38	277	2	0.02	14	190	10	<0.01	<2	3	17
ZZ20523		10	<1	0.23	20	0.75	570	2	0.03	26	400	9	<0.01	<2	5	37
ZZ20524		<10	<1	0.07	10	0.46	262	2	0.02	17	140	8	<0.01	<2	3	26
ZZ20525		<10	<1	0.05	10	0.29	256	2	0.02	14	160	10	<0.01	<2	2	22
ZZ20526		<10	<1	0.08	10	0.45	239	2	0.02	18	160	8	<0.01	<2	4	27
ZZ20527		<10	<1	0.06	20	0.57	318	2	0.02	23	220	9	<0.01	<2	5	38
ZZ20528		<10	<1	0.07	30	0.57	490	2	0.03	28	300	9	0.01	<2	6	51
ZZ20529		10	<1	0.33	20	0.40	194	3	0.01	8	430	8	<0.01	<2	2	17
ZZ20530		<10	<1	0.12	10	0.38	175	2	0.02	12	160	11	0.01	<2	2	24

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 23- SEP- 2011
Account: F

Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152744

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ20471		<20	0.05	<10	<10	25	<10	36
ZZ20472		<20	0.04	<10	<10	31	<10	27
ZZ20473		<20	0.06	<10	<10	48	<10	39
ZZ20474		30	0.09	<10	<10	46	<10	70
ZZ20475		20	0.07	<10	<10	47	<10	56
ZZ20476		20	0.07	<10	<10	48	<10	63
ZZ20477		<20	0.05	<10	<10	41	<10	49
ZZ20478		<20	0.08	<10	<10	46	<10	58
ZZ20479		<20	0.07	<10	<10	55	<10	60
ZZ20480		<20	0.06	<10	<10	43	<10	59
ZZ20501		<20	0.07	<10	<10	45	<10	45
ZZ20502		30	0.04	<10	<10	32	<10	32
ZZ20503		<20	0.09	<10	<10	51	<10	47
ZZ20504		20	0.07	<10	<10	48	<10	48
ZZ20505		<20	0.09	<10	<10	54	<10	45
ZZ20506		<20	0.09	<10	<10	54	<10	41
ZZ20507		<20	0.09	<10	<10	59	<10	44
ZZ20508		30	0.08	<10	<10	58	<10	60
ZZ20509		<20	0.09	<10	<10	59	<10	44
ZZ20510		<20	0.09	<10	<10	59	<10	39
ZZ20511		<20	0.10	<10	<10	56	<10	49
ZZ20512		20	0.09	<10	<10	71	<10	46
ZZ20513		<20	0.05	<10	<10	50	<10	36
ZZ20514		<20	0.03	<10	<10	24	<10	28
ZZ20515		20	0.08	<10	<10	50	<10	38
ZZ20516		<20	0.06	<10	<10	43	<10	37
ZZ20517		30	0.01	<10	<10	18	<10	29
ZZ20518		30	0.02	<10	<10	19	<10	24
ZZ20519		60	0.01	<10	<10	5	<10	18
ZZ20520		<20	0.04	<10	<10	29	<10	19
ZZ20521		<20	0.08	<10	<10	49	<10	44
ZZ20522		<20	0.08	<10	<10	53	<10	43
ZZ20523		<20	0.11	<10	<10	58	<10	48
ZZ20524		<20	0.09	<10	<10	57	<10	35
ZZ20525		<20	0.05	<10	<10	44	<10	28
ZZ20526		<20	0.07	<10	<10	48	<10	40
ZZ20527		<20	0.09	<10	<10	60	<10	48
ZZ20528		<20	0.09	<10	<10	57	<10	51
ZZ20529		<20	0.05	<10	<10	20	<10	46
ZZ20530		<20	0.08	<10	<10	50	<10	36

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH11152744

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ20581		0.30	0.005	<0.2	1.83	8	<10	220	0.8	5	0.50	<0.5	10	37	16	2.89
ZZ20582		0.30	0.013	<0.2	2.12	15	<10	260	0.6	4	0.57	<0.5	9	33	18	2.84
ZZ20583		0.20	0.001	<0.2	1.62	18	<10	120	<0.5	5	0.14	<0.5	7	26	11	3.63
ZZ20584		0.24	0.005	<0.2	1.87	16	<10	170	0.7	5	0.19	<0.5	9	25	13	3.07
ZZ20585		0.24	0.005	<0.2	1.27	10	<10	160	0.8	6	0.18	<0.5	6	20	14	2.00
ZZ20586		0.34	0.007	<0.2	1.22	10	<10	140	0.9	4	0.15	<0.5	7	24	13	2.05
ZZ20587		0.30	0.005	<0.2	1.33	10	<10	160	0.7	4	0.35	<0.5	8	27	16	2.14
ZZ20588		0.22	0.003	<0.2	0.97	3	<10	200	1.0	4	0.71	<0.5	5	19	10	1.45
ZZ20589		0.22	0.002	<0.2	1.51	8	<10	140	0.8	5	0.86	<0.5	9	33	25	2.44
ZZ20590		0.18	0.006	<0.2	1.84	11	<10	240	0.7	6	1.75	<0.5	10	59	31	2.67
ZZ20591		0.14	0.004	<0.2	1.85	8	<10	270	0.6	5	1.79	<0.5	12	62	25	2.74
ZZ20592		0.26	0.004	<0.2	1.29	8	<10	90	1.1	4	0.39	<0.5	6	14	12	2.42
ZZ20593		0.22	0.001	<0.2	1.02	7	<10	120	<0.5	2	0.31	<0.5	6	19	16	1.85
ZZ20594		0.30	0.002	<0.2	1.69	11	<10	200	<0.5	3	0.38	<0.5	10	29	16	2.69
ZZ20595		0.24	0.003	<0.2	1.90	17	<10	170	<0.5	3	0.35	<0.5	10	35	15	3.12
ZZ20596		0.20	<0.001	<0.2	0.78	6	<10	100	<0.5	5	0.10	<0.5	5	12	7	1.55
ZZ20597		0.26	0.005	<0.2	1.21	9	<10	230	0.6	4	0.67	<0.5	6	15	23	1.80
ZZ20598		0.22	0.005	<0.2	1.80	13	<10	320	0.6	4	0.95	<0.5	13	36	29	2.82
ZZ20599		0.26	0.011	<0.2	1.89	14	<10	260	0.7	3	0.77	<0.5	13	42	27	3.10
ZZ20600		0.18	0.004	<0.2	1.73	20	<10	230	0.7	2	1.04	<0.5	11	40	29	3.00
ZZ20601		0.24	0.002	<0.2	1.78	15	<10	210	0.6	4	1.14	<0.5	12	40	24	2.96
ZZ20602		0.24	0.003	<0.2	1.97	15	<10	260	0.6	4	1.13	<0.5	13	39	26	3.02
ZZ20603		0.30	0.003	<0.2	1.76	13	<10	210	<0.5	3	0.62	<0.5	10	28	14	2.75
ZZ20604		0.30	0.004	<0.2	1.78	8	<10	280	0.6	3	0.95	<0.5	12	34	25	2.85
ZZ20605		0.24	0.001	<0.2	1.79	13	<10	220	<0.5	4	0.54	<0.5	12	32	18	2.97
ZZ20606		0.16	0.004	<0.2	1.77	12	<10	260	0.6	4	1.11	<0.5	12	35	26	2.78
ZZ20607		0.24	0.009	<0.2	1.76	10	<10	290	0.7	3	0.96	<0.5	13	41	22	2.93
ZZ20608		0.22	0.004	<0.2	1.63	9	<10	250	0.7	5	0.98	<0.5	10	36	17	3.44
ZZ20609		0.16	0.004	<0.2	1.44	6	<10	250	0.8	8	1.10	<0.5	11	33	16	3.32
ZZ20610		0.18	0.002	<0.2	1.79	7	<10	380	1.1	5	1.07	<0.5	13	55	14	3.31
ZZ20071		0.28	0.016	<0.2	1.37	10	<10	180	0.8	5	0.38	<0.5	8	20	12	2.02
ZZ20072		0.34	0.005	<0.2	1.72	11	<10	160	0.7	4	0.35	<0.5	11	22	9	2.64
ZZ20073		0.34	0.006	<0.2	1.71	12	<10	140	0.5	2	0.30	<0.5	8	26	12	2.58
ZZ20074		0.24	0.003	<0.2	1.45	13	<10	100	<0.5	3	0.19	<0.5	9	22	9	2.33
ZZ20075		0.24	0.008	<0.2	1.60	13	<10	120	<0.5	5	0.21	<0.5	10	24	10	2.40
ZZ20076		0.24	0.009	<0.2	1.50	13	<10	120	<0.5	3	0.22	<0.5	11	21	10	2.37
ZZ20077		0.22	0.015	<0.2	1.33	10	<10	90	<0.5	5	0.21	<0.5	7	20	8	2.10
ZZ20078		0.18	0.004	<0.2	1.17	9	<10	60	<0.5	6	0.11	<0.5	9	20	7	2.17
ZZ20079		Not Recvd														
ZZ20080		0.20	0.036	<0.2	1.33	17	<10	160	0.6	4	0.32	<0.5	9	28	11	2.11

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH11152744

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20581		<10	<1	0.11	30	0.54	395	2	0.02	21	470	11	<0.01	<2	5	32
ZZ20582		<10	<1	0.08	40	0.49	417	2	0.02	18	360	9	0.01	<2	5	36
ZZ20583		10	<1	0.06	20	0.37	295	3	0.01	13	500	11	0.01	<2	3	15
ZZ20584		<10	<1	0.07	20	0.38	520	3	0.01	13	300	10	0.01	<2	3	22
ZZ20585		<10	<1	0.06	40	0.29	215	2	0.01	11	180	10	<0.01	<2	3	20
ZZ20586		<10	<1	0.10	40	0.35	301	2	0.01	15	180	11	<0.01	<2	4	22
ZZ20587		<10	<1	0.05	30	0.40	235	2	0.02	15	400	17	<0.01	<2	4	26
ZZ20588		<10	<1	0.07	30	0.26	146	1	0.02	10	470	15	0.02	<2	4	30
ZZ20589		<10	1	0.14	30	0.64	183	2	0.03	22	710	20	0.02	<2	4	49
ZZ20590		<10	1	0.33	30	0.93	209	1	0.03	40	680	9	0.06	<2	4	96
ZZ20591		10	<1	0.32	30	0.89	583	2	0.03	38	690	10	0.07	<2	5	94
ZZ20592		<10	<1	0.27	30	0.39	204	2	0.01	9	470	14	<0.01	<2	3	22
ZZ20593		<10	<1	0.20	10	0.35	204	3	0.02	18	340	17	0.01	<2	2	24
ZZ20594		<10	<1	0.07	10	0.54	239	2	0.02	21	330	10	<0.01	<2	4	28
ZZ20595		<10	<1	0.12	10	0.61	240	2	0.02	24	290	11	0.01	<2	4	28
ZZ20596		<10	<1	0.10	10	0.21	106	2	0.02	7	120	8	<0.01	<2	1	12
ZZ20597		<10	<1	0.15	100	0.27	130	2	0.02	12	220	16	0.01	<2	3	36
ZZ20598		<10	<1	0.10	20	0.58	347	2	0.03	28	370	10	0.02	<2	5	55
ZZ20599		10	<1	0.19	30	0.68	408	1	0.03	28	530	11	0.01	<2	5	52
ZZ20600		<10	<1	0.18	40	0.69	203	2	0.03	27	560	12	0.04	<2	5	58
ZZ20601		<10	<1	0.14	30	0.74	349	1	0.03	28	770	10	0.02	<2	5	63
ZZ20602		<10	<1	0.14	30	0.72	402	2	0.03	27	530	10	0.03	<2	5	66
ZZ20603		<10	1	0.09	20	0.56	333	2	0.02	18	450	8	0.01	<2	4	38
ZZ20604		10	<1	0.09	30	0.55	351	2	0.03	23	460	9	0.02	<2	5	56
ZZ20605		<10	<1	0.12	10	0.51	427	2	0.02	19	250	11	0.01	<2	4	34
ZZ20606		<10	1	0.09	20	0.57	431	2	0.03	24	530	11	0.03	<2	5	60
ZZ20607		<10	<1	0.15	60	0.80	618	2	0.03	22	560	9	0.02	<2	6	59
ZZ20608		<10	<1	0.27	60	0.76	260	3	0.03	15	690	12	0.05	<2	5	48
ZZ20609		<10	1	0.35	80	0.77	326	4	0.03	13	790	51	0.09	<2	7	57
ZZ20610		10	<1	0.59	90	1.20	621	3	0.02	16	870	16	0.03	<2	7	49
ZZ20071		<10	<1	0.08	70	0.34	546	2	0.02	12	530	16	0.02	<2	3	27
ZZ20072		<10	<1	0.10	40	0.49	597	3	0.02	13	480	15	0.01	<2	3	25
ZZ20073		10	<1	0.07	40	0.45	315	2	0.02	13	470	11	<0.01	<2	3	22
ZZ20074		<10	<1	0.09	40	0.35	492	2	0.02	12	460	12	0.01	<2	2	19
ZZ20075		<10	<1	0.08	40	0.40	418	1	0.02	14	440	10	0.01	<2	3	20
ZZ20076		10	<1	0.10	40	0.41	649	2	0.02	13	460	15	0.01	<2	3	21
ZZ20077		<10	<1	0.10	30	0.36	276	2	0.02	11	460	9	0.01	<2	2	20
ZZ20078		<10	<1	0.08	20	0.25	428	2	0.02	11	410	11	0.01	<2	2	15
ZZ20079																
ZZ20080		<10	<1	0.14	40	0.38	408	2	0.02	17	770	13	0.03	<2	3	24

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CERTIFICATE OF ANALYSIS WH11152744

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ20581		20	0.09	<10	<10	53	<10	45
ZZ20582		20	0.10	<10	<10	54	<10	49
ZZ20583		<20	0.09	<10	<10	86	<10	41
ZZ20584		<20	0.05	<10	<10	58	<10	43
ZZ20585		20	0.04	<10	<10	34	<10	34
ZZ20586		20	0.06	<10	<10	34	<10	34
ZZ20587		<20	0.08	<10	<10	45	<10	40
ZZ20588		20	0.03	<10	<10	28	<10	35
ZZ20589		20	0.07	<10	<10	44	<10	52
ZZ20590		<20	0.08	<10	<10	42	<10	53
ZZ20591		<20	0.09	<10	<10	47	<10	54
ZZ20592		30	0.05	<10	<10	21	<10	35
ZZ20593		<20	0.07	<10	<10	39	<10	38
ZZ20594		<20	0.09	<10	<10	56	<10	41
ZZ20595		<20	0.10	<10	<10	60	<10	47
ZZ20596		<20	0.07	<10	<10	35	<10	23
ZZ20597		20	0.05	<10	<10	27	<10	31
ZZ20598		<20	0.09	<10	<10	55	<10	51
ZZ20599		<20	0.09	<10	<10	45	<10	61
ZZ20600		<20	0.09	<10	<10	53	<10	55
ZZ20601		<20	0.08	<10	<10	49	<10	55
ZZ20602		<20	0.09	<10	<10	52	<10	54
ZZ20603		<20	0.09	<10	<10	47	<10	51
ZZ20604		<20	0.08	<10	<10	51	<10	49
ZZ20605		<20	0.10	<10	<10	63	<10	52
ZZ20606		<20	0.08	<10	<10	51	<10	50
ZZ20607		20	0.09	<10	<10	56	<10	49
ZZ20608		20	0.10	<10	<10	53	<10	55
ZZ20609		30	0.09	<10	<10	50	<10	64
ZZ20610		30	0.12	<10	<10	54	<10	63
ZZ20071		20	0.04	<10	<10	32	<10	40
ZZ20072		20	0.07	<10	<10	46	<10	48
ZZ20073		<20	0.08	<10	<10	51	<10	47
ZZ20074		<20	0.07	<10	<10	46	<10	42
ZZ20075		<20	0.07	<10	<10	48	<10	45
ZZ20076		<20	0.06	<10	<10	48	<10	50
ZZ20077		<20	0.06	<10	<10	38	<10	47
ZZ20078		<20	0.05	<10	<10	38	<10	42
ZZ20079								
ZZ20080		<20	0.06	<10	<10	34	<10	53

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 23- SEP- 2011
Account: F

Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152744

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ20081		0.14	0.026	<0.2	1.32	11	<10	140	0.5	5	0.31	<0.5	8	25	10	2.04
ZZ20082		0.16	0.015	0.2	1.62	17	<10	130	<0.5	3	0.25	0.5	10	30	25	2.35
ZZ20083		0.18	0.008	<0.2	1.38	11	<10	100	<0.5	5	0.17	<0.5	15	26	11	2.28
ZZ20084		0.20	0.011	<0.2	1.54	18	<10	80	<0.5	5	0.12	<0.5	7	23	12	2.55
ZZ20085		0.12	0.002	<0.2	0.91	7	<10	70	<0.5	5	0.09	<0.5	6	14	9	1.66
ZZ20086		0.14	0.005	<0.2	1.06	8	<10	80	<0.5	4	0.15	<0.5	5	19	9	1.55
ZZ20087		0.12	0.017	<0.2	1.34	11	<10	90	<0.5	4	0.16	<0.5	7	31	10	1.99
ZZ20088		0.22	0.005	<0.2	2.19	15	<10	170	0.9	4	0.40	<0.5	22	124	16	3.28
ZZ20089		0.10	0.009	<0.2	1.28	12	<10	90	<0.5	5	0.20	<0.5	7	23	10	1.94
ZZ20090		0.10	0.009	<0.2	1.71	11	<10	290	0.9	5	1.25	0.5	11	29	23	2.38
ZZ20091		0.18	0.006	<0.2	1.27	13	<10	90	<0.5	5	0.27	<0.5	8	18	8	2.21
ZZ20092		0.28	0.023	<0.2	1.74	26	<10	160	1.2	7	0.60	<0.5	11	47	18	2.90
ZZ20093		0.18	0.007	<0.2	1.42	22	<10	100	<0.5	6	0.14	<0.5	6	18	12	2.56
ZZ20094		0.22	0.013	<0.2	1.54	10	<10	200	0.5	5	0.41	<0.5	9	44	16	2.09
ZZ20095		0.16	0.016	<0.2	1.68	19	<10	220	0.7	7	0.59	<0.5	10	45	21	2.46
ZZ20096		0.24	<0.001	<0.2	0.83	10	<10	80	<0.5	4	0.35	<0.5	6	15	11	2.05
ZZ20097		0.22	0.011	<0.2	1.13	7	<10	140	0.6	6	1.02	0.5	7	21	16	1.61
ZZ20098		0.24	0.004	<0.2	1.53	14	<10	140	<0.5	4	0.46	0.7	14	28	13	2.56
ZZ20099		0.28	0.006	<0.2	1.71	13	<10	210	<0.5	5	0.49	<0.5	10	28	16	2.56
ZZ20100		0.34	0.023	<0.2	1.52	17	<10	150	0.5	5	0.30	0.5	15	27	12	2.91

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North Vancouver BC V7H 0A7
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Finalized Date: 23- SEP- 2011
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Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152744

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20081		<10	<1	0.14	50	0.45	263	2	0.02	15	710	9	0.04	<2	3	27
ZZ20082		<10	<1	0.11	30	0.49	393	2	0.03	34	580	48	0.03	<2	3	22
ZZ20083		<10	<1	0.07	30	0.36	673	1	0.02	15	550	30	0.02	<2	2	17
ZZ20084		10	<1	0.07	20	0.31	212	2	0.02	10	180	17	0.01	<2	2	13
ZZ20085		<10	<1	0.05	10	0.15	379	2	0.02	6	250	9	0.01	<2	2	11
ZZ20086		<10	<1	0.06	20	0.24	106	1	0.02	8	460	10	0.03	<2	2	17
ZZ20087		<10	<1	0.09	30	0.42	171	1	0.02	15	550	13	0.04	<2	2	17
ZZ20088		10	<1	0.53	50	1.64	1035	2	0.02	93	1310	26	0.02	<2	7	28
ZZ20089		<10	<1	0.09	30	0.39	194	2	0.02	13	590	19	0.03	<2	2	19
ZZ20090		<10	1	0.12	120	0.47	727	2	0.03	18	850	12	0.07	<2	5	72
ZZ20091		<10	<1	0.11	30	0.35	389	2	0.02	10	670	14	0.02	<2	2	21
ZZ20092		<10	<1	0.40	90	0.90	746	2	0.02	16	930	36	0.01	<2	5	30
ZZ20093		10	<1	0.10	10	0.32	264	3	0.02	9	260	28	0.01	<2	2	13
ZZ20094		<10	<1	0.11	40	0.59	787	1	0.02	14	520	34	0.02	<2	4	27
ZZ20095		<10	<1	0.14	50	0.59	751	2	0.02	15	590	35	0.03	<2	4	35
ZZ20096		<10	<1	0.15	10	0.29	395	8	0.02	8	230	11	0.01	<2	2	21
ZZ20097		<10	<1	0.07	40	0.36	323	2	0.02	13	590	17	0.05	<2	3	52
ZZ20098		<10	<1	0.05	10	0.50	765	2	0.03	16	710	11	0.02	<2	3	33
ZZ20099		<10	1	0.05	20	0.52	332	2	0.03	19	590	9	0.02	<2	4	36
ZZ20100		<10	<1	0.06	20	0.48	1230	2	0.02	16	660	16	0.02	<2	3	26

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Finalized Date: 23- SEP- 2011
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Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152744

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ20081		<20	0.07	<10	<10	33	<10	53
ZZ20082		<20	0.07	<10	<10	46	<10	70
ZZ20083		<20	0.06	<10	<10	45	<10	48
ZZ20084		<20	0.08	<10	<10	62	<10	37
ZZ20085		<20	0.06	<10	<10	38	<10	25
ZZ20086		<20	0.05	<10	<10	25	<10	30
ZZ20087		<20	0.06	<10	<10	39	<10	45
ZZ20088		<20	0.15	<10	<10	75	<10	58
ZZ20089		<20	0.05	<10	<10	34	<10	43
ZZ20090		<20	0.06	<10	<10	38	<10	50
ZZ20091		<20	0.07	<10	<10	47	<10	51
ZZ20092		30	0.09	<10	<10	40	<10	57
ZZ20093		<20	0.08	<10	<10	54	<10	42
ZZ20094		<20	0.08	<10	<10	34	<10	54
ZZ20095		<20	0.07	<10	<10	47	<10	72
ZZ20096		<20	0.06	<10	<10	34	<10	31
ZZ20097		20	0.05	<10	<10	30	<10	42
ZZ20098		<20	0.07	<10	<10	62	<10	58
ZZ20099		<20	0.08	<10	<10	55	<10	56
ZZ20100		<20	0.07	<10	<10	59	<10	55

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Finalized Date: 26- SEP- 2011
Account: F

CERTIFICATE WH11152745

Project: DAN MAN - ARCUS

P.O. No.:

This report is for 178 Soil samples submitted to our lab in Whitehorse, YT, Canada on 7- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152745

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ20162		0.22	0.005	0.2	1.82	9	<10	250	1.0	<2	0.45	<0.5	11	29	17	2.62
ZZ20163		0.28	0.004	<0.2	1.48	11	<10	160	<0.5	<2	0.26	<0.5	7	28	10	2.32
ZZ20164		0.30	<0.001	<0.2	1.61	27	<10	110	<0.5	<2	0.18	<0.5	9	23	12	3.09
ZZ20165		0.26	<0.001	<0.2	1.65	6	<10	100	0.6	<2	0.46	<0.5	11	68	25	3.05
ZZ20166		0.26	<0.001	<0.2	1.34	10	<10	140	<0.5	<2	0.26	<0.5	6	22	10	2.17
ZZ20167		0.36	0.004	<0.2	1.35	8	<10	170	0.5	<2	0.35	<0.5	6	22	11	2.03
ZZ20168		0.22	<0.001	<0.2	1.21	11	<10	100	<0.5	<2	0.21	<0.5	6	25	11	2.62
ZZ20169		0.26	<0.001	<0.2	1.89	6	<10	70	1.8	<2	0.42	<0.5	14	115	29	3.77
ZZ20170		0.30	0.005	<0.2	1.60	7	<10	180	0.5	<2	0.41	<0.5	9	26	16	2.32
ZZ20171		0.32	0.004	<0.2	1.52	6	<10	170	0.5	<2	0.40	<0.5	8	24	14	2.10
ZZ20172		0.18	0.002	<0.2	1.42	7	<10	180	0.7	<2	0.58	<0.5	12	22	14	2.43
ZZ20173		0.22	0.004	<0.2	1.33	16	<10	130	0.5	<2	0.38	<0.5	15	24	12	2.39
ZZ20174		0.22	0.003	<0.2	1.47	5	<10	130	0.7	<2	0.41	<0.5	9	23	10	2.22
ZZ20175		0.28	0.002	<0.2	1.48	9	<10	100	1.0	<2	0.53	<0.5	10	32	8	2.52
ZZ20176		0.14	0.006	0.2	1.62	12	<10	140	0.5	<2	0.24	<0.5	7	24	11	2.34
ZZ20177		0.36	0.004	<0.2	0.86	6	<10	90	1.1	<2	0.36	<0.5	5	9	6	1.57
ZZ20178		0.18	0.022	<0.2	1.33	5	<10	120	0.5	<2	0.21	<0.5	8	21	10	1.70
ZZ20179		0.20	0.004	<0.2	1.49	5	<10	150	1.2	<2	0.48	<0.5	9	20	13	2.20
ZZ20180		0.24	0.005	<0.2	1.57	7	<10	170	1.3	<2	0.39	<0.5	9	25	11	2.30
ZZ20251		0.34	0.003	<0.2	1.66	6	<10	110	0.7	<2	0.46	<0.5	8	29	14	2.28
ZZ20252		0.30	0.014	<0.2	1.62	8	<10	160	0.5	<2	0.29	<0.5	7	25	11	2.24
ZZ20253		0.24	0.010	<0.2	1.51	8	<10	110	<0.5	<2	0.22	<0.5	7	24	10	1.92
ZZ20254		0.30	0.010	<0.2	1.83	7	<10	220	0.9	<2	0.34	<0.5	10	34	17	2.44
ZZ20255		0.20	0.007	<0.2	1.68	13	<10	160	0.5	<2	0.28	<0.5	14	29	12	2.38
ZZ20256		0.18	0.009	0.2	1.67	9	<10	200	0.5	<2	0.36	<0.5	12	29	13	2.31
ZZ20257		0.20	0.001	<0.2	1.64	10	<10	170	<0.5	<2	0.35	<0.5	7	23	12	2.00
ZZ20258		0.34	0.004	<0.2	1.62	7	<10	150	<0.5	<2	0.42	<0.5	7	34	10	2.29
ZZ20259		0.32	<0.001	0.2	1.53	8	<10	230	<0.5	<2	0.21	<0.5	10	23	12	2.59
ZZ20260		0.34	0.002	0.2	1.63	7	<10	180	0.5	<2	0.23	<0.5	7	23	12	2.60
ZZ20281		0.18	0.036	<0.2	2.31	29	<10	230	0.7	<2	0.37	<0.5	9	38	18	2.88
ZZ20282		0.30	0.006	0.2	1.97	10	<10	220	0.5	<2	0.84	<0.5	10	36	14	2.48
ZZ20283		0.32	0.001	<0.2	2.14	6	<10	170	0.5	<2	0.33	<0.5	9	47	16	2.71
ZZ20284		0.34	0.001	<0.2	2.56	9	<10	180	0.6	<2	0.28	<0.5	11	44	19	2.95
ZZ20285		0.34	0.001	<0.2	2.47	11	<10	100	<0.5	<2	0.17	<0.5	8	45	15	3.40
ZZ20286		0.20	0.001	<0.2	2.21	6	<10	210	0.6	<2	0.40	<0.5	8	36	21	2.62
ZZ20287		0.32	0.002	0.2	2.03	15	<10	180	<0.5	<2	0.25	<0.5	7	42	14	3.01
ZZ20288		0.34	0.005	<0.2	1.87	13	<10	140	<0.5	<2	0.12	<0.5	6	29	12	2.43
ZZ20289		0.24	0.016	<0.2	2.10	22	<10	250	0.5	<2	0.35	<0.5	6	35	17	2.87
ZZ20290		0.28	0.014	0.2	2.42	21	<10	270	0.7	<2	0.45	<0.5	8	42	24	3.00
ZZ20221		0.26	0.002	<0.2	1.54	10	<10	150	0.5	<2	0.30	<0.5	9	25	13	2.30

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CERTIFICATE OF ANALYSIS WH11152745

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20162		10	1	0.11	50	0.48	504	1	0.02	13	400	10	0.01	2	5	29
ZZ20163		10	<1	0.07	10	0.41	229	<1	0.01	12	220	8	0.01	<2	3	22
ZZ20164		10	<1	0.12	10	0.43	425	5	0.01	10	350	11	0.01	<2	3	17
ZZ20165		10	<1	0.06	20	0.99	365	2	0.02	21	590	10	0.01	<2	7	33
ZZ20166		<10	<1	0.07	10	0.36	241	2	0.01	11	330	10	0.01	<2	3	21
ZZ20167		10	1	0.06	30	0.33	252	1	0.01	10	190	8	0.01	<2	3	28
ZZ20168		10	<1	0.07	10	0.36	282	2	0.01	12	420	10	0.02	2	3	18
ZZ20169		10	<1	0.22	10	1.22	305	1	0.01	50	850	25	0.02	<2	7	26
ZZ20170		<10	<1	0.06	30	0.44	270	<1	0.02	14	550	9	0.02	<2	4	32
ZZ20171		<10	<1	0.06	40	0.40	364	<1	0.02	13	480	11	0.02	<2	4	30
ZZ20172		<10	<1	0.06	60	0.37	800	<1	0.02	11	590	12	0.04	<2	4	44
ZZ20173		<10	1	0.07	40	0.36	1735	<1	0.02	11	690	17	0.04	2	3	27
ZZ20174		<10	<1	0.12	60	0.48	721	<1	0.02	11	560	14	0.03	<2	4	27
ZZ20175		<10	<1	0.23	50	0.78	484	<1	0.01	14	460	12	0.02	<2	5	25
ZZ20176		<10	<1	0.08	50	0.39	171	<1	0.01	11	490	12	0.02	<2	3	21
ZZ20177		<10	<1	0.14	90	0.21	410	<1	0.01	5	440	15	0.01	<2	2	24
ZZ20178		<10	<1	0.07	50	0.27	822	<1	0.01	11	480	12	0.03	<2	3	18
ZZ20179		<10	<1	0.13	120	0.34	1230	<1	0.02	13	520	15	0.03	<2	3	31
ZZ20180		<10	<1	0.13	100	0.41	720	<1	0.01	14	620	10	0.02	<2	4	26
ZZ20251		<10	<1	0.12	60	0.55	318	<1	0.02	15	550	19	0.02	<2	4	28
ZZ20252		10	<1	0.10	40	0.45	257	<1	0.02	12	520	10	0.02	<2	3	22
ZZ20253		<10	<1	0.08	30	0.37	207	<1	0.02	11	620	12	0.02	2	2	21
ZZ20254		<10	<1	0.11	80	0.52	461	<1	0.02	20	620	18	0.03	2	5	27
ZZ20255		<10	<1	0.08	30	0.49	1060	<1	0.02	15	620	21	0.03	2	3	25
ZZ20256		<10	1	0.10	50	0.50	1370	<1	0.02	17	540	15	0.03	2	4	29
ZZ20257		<10	<1	0.10	20	0.34	338	<1	0.02	11	350	5	0.01	<2	3	27
ZZ20258		<10	<1	0.10	20	0.51	214	<1	0.02	17	380	7	0.01	2	3	28
ZZ20259		10	<1	0.07	20	0.38	763	2	0.01	11	190	11	<0.01	<2	3	22
ZZ20260		10	<1	0.06	30	0.37	282	2	0.01	11	150	14	0.01	<2	3	23
ZZ20281		10	<1	0.08	20	0.46	277	<1	0.02	17	470	10	0.03	6	7	31
ZZ20282		10	<1	0.07	30	0.51	373	<1	0.02	17	570	11	0.04	<2	6	38
ZZ20283		10	<1	0.06	20	0.71	193	<1	0.02	20	290	7	0.01	3	4	23
ZZ20284		10	<1	0.05	10	0.70	266	<1	0.01	21	200	6	<0.01	2	5	24
ZZ20285		10	<1	0.06	10	0.64	294	<1	0.01	20	210	9	<0.01	<2	5	17
ZZ20286		10	<1	0.06	40	0.48	232	<1	0.02	18	280	14	0.01	<2	6	29
ZZ20287		10	1	0.06	10	0.65	233	<1	0.02	20	330	15	0.01	<2	5	21
ZZ20288		10	<1	0.06	10	0.40	193	1	0.02	14	220	8	0.01	<2	5	13
ZZ20289		10	<1	0.08	10	0.55	237	1	0.02	16	480	14	0.03	2	5	29
ZZ20290		10	<1	0.08	20	0.64	302	<1	0.02	22	530	27	0.03	<2	6	31
ZZ20221		<10	<1	0.09	30	0.46	724	<1	0.02	13	530	11	0.03	2	3	23

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26- SEP- 2011
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Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152745

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ20162		30	0.08	<10	<10	53	<10	47
ZZ20163		<20	0.09	<10	<10	58	<10	36
ZZ20164		<20	0.10	<10	<10	71	<10	45
ZZ20165		<20	0.14	<10	<10	82	<10	42
ZZ20166		<20	0.07	<10	<10	54	<10	37
ZZ20167		20	0.08	<10	<10	52	<10	30
ZZ20168		<20	0.10	<10	<10	73	<10	43
ZZ20169		30	0.07	<10	<10	75	<10	49
ZZ20170		<20	0.08	<10	<10	50	<10	49
ZZ20171		20	0.07	<10	<10	43	<10	47
ZZ20172		20	0.06	<10	<10	42	<10	46
ZZ20173		<20	0.06	<10	<10	42	<10	48
ZZ20174		20	0.06	<10	<10	39	<10	51
ZZ20175		30	0.07	<10	<10	42	<10	46
ZZ20176		<20	0.06	<10	<10	45	<10	50
ZZ20177		30	0.02	<10	<10	16	<10	39
ZZ20178		<20	0.04	<10	<10	33	<10	43
ZZ20179		20	0.04	<10	<10	33	<10	59
ZZ20180		30	0.05	<10	<10	36	<10	57
ZZ20251		20	0.08	<10	<10	43	<10	64
ZZ20252		<20	0.07	<10	<10	47	<10	52
ZZ20253		<20	0.05	<10	<10	38	<10	51
ZZ20254		20	0.07	<10	<10	45	<10	63
ZZ20255		<20	0.07	<10	<10	50	<10	58
ZZ20256		<20	0.08	<10	<10	48	<10	61
ZZ20257		<20	0.08	<10	<10	43	<10	33
ZZ20258		<20	0.11	<10	<10	48	<10	41
ZZ20259		<20	0.08	<10	<10	63	<10	37
ZZ20260		<20	0.08	<10	<10	65	<10	35
ZZ20281		<20	0.07	<10	<10	62	<10	60
ZZ20282		<20	0.09	<10	<10	57	<10	48
ZZ20283		<20	0.11	<10	<10	65	<10	41
ZZ20284		<20	0.11	<10	<10	73	<10	47
ZZ20285		<20	0.13	<10	<10	93	<10	45
ZZ20286		<20	0.09	<10	<10	59	<10	45
ZZ20287		<20	0.13	<10	<10	81	<10	57
ZZ20288		<20	0.09	<10	<10	60	<10	41
ZZ20289		<20	0.09	<10	<10	72	<10	59
ZZ20290		<20	0.09	<10	<10	74	<10	62
ZZ20221		<20	0.07	<10	<10	50	<10	57

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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CERTIFICATE OF ANALYSIS WH11152745

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ20222		0.30	0.005	<0.2	1.50	11	<10	130	<0.5	<2	0.30	<0.5	10	26	11	2.53
ZZ20223		0.20	0.005	<0.2	1.52	8	<10	160	<0.5	<2	0.40	<0.5	10	37	13	2.24
ZZ20224		0.30	0.005	<0.2	1.41	8	<10	140	0.6	<2	0.21	<0.5	12	37	14	2.33
ZZ20225		0.22	0.011	<0.2	1.24	18	<10	100	<0.5	<2	0.21	<0.5	7	23	9	1.78
ZZ20226		0.12	0.019	<0.2	1.00	20	<10	130	<0.5	<2	0.31	<0.5	6	20	10	1.73
ZZ20228		0.28	0.007	0.2	1.93	11	<10	440	1.1	<2	0.65	<0.5	6	35	24	2.64
ZZ20229		0.20	0.004	0.2	1.43	6	<10	160	<0.5	<2	0.32	<0.5	5	18	9	1.99
ZZ20230		0.38	0.004	<0.2	1.76	8	<10	190	<0.5	<2	0.39	<0.5	7	30	15	2.43
ZZ20631		0.16	0.002	0.2	1.10	5	<10	250	0.7	<2	0.43	<0.5	7	14	19	2.22
ZZ20632		0.26	0.001	<0.2	1.51	3	<10	170	0.6	<2	0.45	<0.5	8	38	26	2.26
ZZ20633		0.26	0.003	<0.2	1.14	7	<10	130	<0.5	<2	0.38	<0.5	7	19	7	2.00
ZZ20634		0.22	0.001	<0.2	1.08	7	<10	200	0.5	<2	0.98	<0.5	6	21	15	1.82
ZZ20635		0.24	0.005	<0.2	1.51	8	<10	200	<0.5	<2	0.72	<0.5	9	28	35	2.57
ZZ20636		0.20	0.006	<0.2	1.54	8	<10	180	<0.5	<2	0.48	<0.5	9	28	18	2.33
ZZ20637		0.18	0.019	<0.2	1.16	22	<10	130	<0.5	<2	0.38	<0.5	8	24	10	1.96
ZZ20638		0.18	0.017	<0.2	1.42	22	<10	150	<0.5	<2	0.51	<0.5	8	27	12	2.11
ZZ20639		0.20	0.046	<0.2	1.22	23	<10	140	0.5	<2	0.40	<0.5	9	26	11	2.08
ZZ20640		0.16	0.029	<0.2	1.26	27	<10	140	<0.5	<2	0.37	<0.5	9	24	10	2.06
ZZ20641		0.14	0.023	<0.2	1.40	27	<10	140	0.5	<2	0.39	<0.5	11	27	10	2.26
ZZ20642		0.32	0.012	<0.2	1.68	14	<10	230	0.6	<2	0.62	<0.5	9	30	24	2.40
ZZ20643		0.14	0.007	<0.2	1.41	21	<10	290	0.6	<2	1.44	<0.5	11	38	27	2.44
ZZ20644		0.12	0.010	<0.2	1.32	10	<10	250	<0.5	<2	1.61	<0.5	7	39	21	2.05
ZZ20645		0.26	0.008	<0.2	1.53	13	<10	230	0.5	<2	0.96	<0.5	10	32	32	2.62
ZZ20646		0.18	0.010	<0.2	1.03	21	<10	180	0.9	<2	1.16	<0.5	11	27	16	2.92
ZZ20647		0.26	0.009	<0.2	0.83	9	<10	130	0.7	<2	0.69	<0.5	4	19	10	1.88
ZZ20648		0.28	0.004	<0.2	1.39	9	<10	140	0.7	<2	0.28	<0.5	5	26	13	2.24
ZZ20649		0.18	0.014	<0.2	1.16	7	<10	140	<0.5	<2	0.33	<0.5	7	19	10	1.99
ZZ20650		0.24	0.016	0.3	2.01	10	<10	250	1.6	<2	0.58	<0.5	8	30	28	2.71
ZZ20341		0.16	0.019	<0.2	1.28	13	<10	100	0.5	<2	0.18	<0.5	5	18	13	2.04
ZZ20342		0.14	0.027	<0.2	1.68	17	<10	210	0.6	<2	0.30	<0.5	7	24	15	2.11
ZZ20343		0.14	0.013	<0.2	1.31	16	<10	100	<0.5	<2	0.17	<0.5	5	18	9	1.77
ZZ20344		0.24	0.033	<0.2	1.94	20	<10	150	0.5	<2	0.25	<0.5	12	30	12	2.96
ZZ20345		0.14	0.014	<0.2	1.40	20	<10	110	0.5	<2	0.22	<0.5	10	22	11	2.36
ZZ20346		0.24	0.130	<0.2	1.83	48	<10	170	0.6	<2	0.29	<0.5	8	27	15	2.47
ZZ20347		0.20	0.069	0.2	1.62	31	<10	130	0.6	<2	0.18	<0.5	7	25	15	2.50
ZZ20348		0.18	0.019	0.2	1.85	11	<10	220	0.6	<2	0.39	<0.5	7	29	19	2.64
ZZ20349		0.16	0.016	<0.2	1.70	16	<10	170	0.6	<2	0.30	<0.5	8	25	13	2.74
ZZ20350		0.26	0.023	<0.2	1.59	15	<10	160	0.6	<2	0.35	<0.5	7	23	14	2.47
ZZ20261		0.30	0.009	<0.2	0.94	6	<10	80	<0.5	<2	0.26	<0.5	4	17	9	1.66
ZZ20262		0.28	0.002	<0.2	1.63	5	<10	110	0.7	<2	0.15	<0.5	8	21	11	2.34

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH11152745

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20222		10	1	0.07	30	0.48	724	<1	0.02	12	600	12	0.03	<2	3	23
ZZ20223		10	<1	0.08	20	0.61	802	<1	0.03	22	620	14	0.03	<2	3	30
ZZ20224		<10	<1	0.06	30	0.44	1660	<1	0.02	19	590	17	0.03	<2	3	19
ZZ20225		<10	<1	0.07	20	0.42	363	<1	0.02	11	430	10	0.02	2	3	17
ZZ20226		<10	<1	0.08	20	0.35	224	<1	0.02	9	360	10	0.02	3	3	21
ZZ20228		10	<1	0.12	100	0.42	365	1	0.02	20	530	12	0.02	<2	6	42
ZZ20229		10	<1	0.22	20	0.40	228	<1	0.02	9	510	8	0.01	<2	3	22
ZZ20230		10	<1	0.11	20	0.50	283	<1	0.02	15	360	9	0.01	2	4	28
ZZ20631		<10	1	0.09	110	0.30	732	4	0.02	8	550	18	0.05	<2	3	43
ZZ20632		10	<1	0.08	50	0.73	499	1	0.03	14	640	15	0.03	<2	5	39
ZZ20633		<10	<1	0.06	10	0.34	535	1	0.02	8	260	16	0.01	<2	3	26
ZZ20634		<10	<1	0.05	20	0.38	348	1	0.03	11	630	9	0.06	<2	3	56
ZZ20635		<10	<1	0.08	10	0.63	395	<1	0.05	24	710	7	0.01	<2	5	41
ZZ20636		10	1	0.06	10	0.53	253	<1	0.03	17	710	8	0.02	2	4	35
ZZ20637		<10	<1	0.11	20	0.50	532	<1	0.02	15	540	10	0.02	2	3	25
ZZ20638		10	<1	0.09	30	0.55	381	<1	0.02	14	550	13	0.03	3	3	34
ZZ20639		<10	<1	0.11	30	0.52	613	<1	0.02	16	590	11	0.02	2	3	27
ZZ20640		<10	<1	0.11	20	0.52	583	<1	0.02	14	500	12	0.02	3	3	24
ZZ20641		<10	<1	0.11	20	0.55	584	<1	0.02	16	500	12	0.02	2	4	26
ZZ20642		10	1	0.09	20	0.46	261	<1	0.03	19	450	12	0.02	<2	4	41
ZZ20643		10	1	0.23	30	0.56	279	<1	0.02	24	680	8	0.06	<2	4	85
ZZ20644		10	<1	0.25	20	0.60	454	<1	0.02	24	730	9	0.07	<2	3	86
ZZ20645		10	<1	0.10	20	0.58	395	<1	0.03	26	690	11	0.02	<2	5	57
ZZ20646		<10	1	0.21	30	0.47	641	1	0.02	19	620	13	0.05	<2	3	65
ZZ20647		<10	<1	0.08	30	0.26	151	<1	0.02	10	510	13	0.03	<2	3	38
ZZ20648		<10	<1	0.12	20	0.37	200	1	0.02	13	260	13	0.01	<2	4	23
ZZ20649		10	<1	0.13	20	0.36	237	1	0.02	11	530	9	0.02	<2	3	26
ZZ20650		10	<1	0.13	80	0.39	370	2	0.02	19	520	16	0.03	2	6	34
ZZ20341		<10	<1	0.08	30	0.36	198	<1	0.02	7	450	11	0.02	2	3	15
ZZ20342		10	<1	0.08	50	0.40	469	<1	0.02	13	400	14	0.02	2	4	27
ZZ20343		10	1	0.09	20	0.29	248	<1	0.01	8	280	13	0.01	2	2	17
ZZ20344		10	<1	0.09	30	0.48	764	<1	0.02	15	310	14	0.01	<2	4	21
ZZ20345		<10	<1	0.09	40	0.35	806	<1	0.01	12	400	14	0.01	<2	3	18
ZZ20346		10	<1	0.08	40	0.39	472	<1	0.02	14	420	16	0.02	<2	3	24
ZZ20347		<10	<1	0.07	30	0.36	295	<1	0.01	12	350	21	0.01	2	3	17
ZZ20348		10	<1	0.10	40	0.45	309	<1	0.02	17	510	16	0.02	<2	4	29
ZZ20349		10	<1	0.12	40	0.40	461	<1	0.02	12	490	14	0.01	<2	3	21
ZZ20350		10	1	0.12	40	0.38	358	<1	0.02	12	510	11	0.01	<2	4	23
ZZ20261		<10	<1	0.05	10	0.21	234	1	0.01	8	240	10	0.01	<2	2	20
ZZ20262		<10	<1	0.05	10	0.30	340	3	0.01	11	280	13	<0.01	<2	3	14

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ20222		<20	0.07	<10	<10	54	<10	59
ZZ20223		<20	0.08	<10	<10	51	<10	61
ZZ20224		<20	0.06	<10	<10	44	<10	44
ZZ20225		<20	0.07	<10	<10	43	<10	42
ZZ20226		<20	0.06	<10	<10	41	<10	30
ZZ20228		20	0.07	<10	<10	50	<10	45
ZZ20229		<20	0.08	<10	<10	34	<10	39
ZZ20230		<20	0.10	<10	<10	52	<10	45
ZZ20631		30	0.05	<10	<10	29	<10	46
ZZ20632		30	0.08	<10	<10	53	<10	53
ZZ20633		30	0.05	<10	<10	38	<10	38
ZZ20634		<20	0.06	<10	<10	44	<10	45
ZZ20635		<20	0.12	<10	<10	62	<10	57
ZZ20636		<20	0.09	<10	<10	62	<10	57
ZZ20637		<20	0.07	<10	<10	40	<10	42
ZZ20638		<20	0.08	<10	<10	46	<10	43
ZZ20639		<20	0.07	<10	<10	43	<10	43
ZZ20640		<20	0.07	<10	<10	43	<10	41
ZZ20641		<20	0.08	<10	<10	49	<10	42
ZZ20642		<20	0.09	<10	<10	47	<10	45
ZZ20643		<20	0.07	<10	<10	44	<10	41
ZZ20644		<20	0.07	<10	<10	34	<10	42
ZZ20645		<20	0.10	<10	<10	57	<10	53
ZZ20646		<20	0.05	<10	<10	40	<10	43
ZZ20647		20	0.04	<10	<10	30	<10	29
ZZ20648		<20	0.09	<10	<10	49	<10	39
ZZ20649		<20	0.08	<10	<10	48	<10	37
ZZ20650		30	0.06	<10	<10	50	<10	46
ZZ20341		<20	0.04	<10	<10	45	<10	47
ZZ20342		<20	0.06	<10	<10	43	<10	54
ZZ20343		<20	0.07	<10	<10	48	<10	42
ZZ20344		20	0.10	<10	<10	60	<10	70
ZZ20345		<20	0.07	<10	<10	49	<10	53
ZZ20346		<20	0.06	<10	<10	50	<10	58
ZZ20347		<20	0.08	<10	<10	47	<10	53
ZZ20348		<20	0.09	<10	<10	50	<10	61
ZZ20349		<20	0.10	<10	<10	49	<10	58
ZZ20350		<20	0.09	<10	<10	44	<10	52
ZZ20261		<20	0.05	<10	<10	39	<10	29
ZZ20262		20	0.07	<10	<10	48	<10	40

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 26- SEP- 2011
Account: F

Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152745

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ20263		0.32	0.004	<0.2	1.76	6	<10	180	0.5	<2	0.53	<0.5	8	31	22	2.77
ZZ20264		0.26	0.004	<0.2	1.52	5	<10	190	0.5	<2	0.42	<0.5	8	24	20	2.13
ZZ20265		0.42	0.001	<0.2	0.72	4	<10	110	0.7	<2	0.22	<0.5	4	8	6	1.17
ZZ20266		0.36	0.004	0.2	1.73	4	<10	180	0.7	<2	0.42	<0.5	9	26	12	2.38
ZZ20267		0.26	0.004	<0.2	1.34	7	<10	120	0.9	<2	0.41	<0.5	8	22	14	2.05
ZZ20268		0.24	0.009	0.2	1.73	7	<10	220	1.3	<2	0.35	<0.5	12	20	15	2.86
ZZ20269		0.18	0.003	<0.2	0.93	2	<10	60	<0.5	<2	0.09	<0.5	4	13	7	1.60
ZZ20270		0.30	0.006	<0.2	1.35	4	<10	90	0.6	<2	0.22	<0.5	7	20	7	2.16
ZZ20191		0.20	0.002	<0.2	2.08	8	<10	80	<0.5	<2	0.14	<0.5	8	39	15	3.14
ZZ20192		0.32	0.011	<0.2	2.26	10	<10	180	1.0	<2	0.30	<0.5	12	67	25	3.22
ZZ20193		0.24	0.002	<0.2	2.07	7	<10	190	0.6	<2	0.36	<0.5	11	41	18	2.86
ZZ20194		0.24	0.010	<0.2	3.07	11	<10	280	1.3	<2	0.70	<0.5	14	72	30	4.06
ZZ20195		0.52	0.005	<0.2	1.88	8	<10	190	0.6	<2	0.50	<0.5	10	44	26	2.93
ZZ20196		0.34	0.001	<0.2	1.71	2	<10	140	<0.5	<2	0.50	<0.5	7	39	11	2.34
ZZ20197		0.46	0.008	<0.2	1.92	8	<10	150	0.5	<2	0.42	<0.5	10	41	16	2.87
ZZ20198		0.28	0.036	<0.2	1.67	39	<10	170	<0.5	<2	0.50	<0.5	7	35	14	2.17
ZZ20199		0.46	0.031	<0.2	1.61	90	<10	190	0.5	<2	0.49	<0.5	14	33	12	2.51
ZZ20200		0.32	0.021	<0.2	1.85	73	<10	190	0.6	<2	0.45	<0.5	12	44	14	2.89
ZZ20211		0.50	0.007	<0.2	1.99	9	<10	190	0.7	<2	0.41	<0.5	11	42	20	3.02
ZZ20212		0.40	0.005	<0.2	1.99	13	<10	160	1.1	<2	0.39	<0.5	13	70	22	3.31
ZZ20213		0.44	0.006	<0.2	2.27	9	<10	240	0.7	<2	0.50	<0.5	13	50	24	3.47
ZZ20214		0.46	0.006	<0.2	2.19	11	<10	170	0.5	<2	0.42	<0.5	9	44	18	3.02
ZZ20215		0.54	0.009	<0.2	2.15	10	<10	210	0.5	<2	0.51	<0.5	10	41	23	3.04
ZZ20216		0.56	0.005	<0.2	2.11	8	<10	220	0.5	<2	0.52	<0.5	9	43	24	2.99
ZZ20217		0.38	0.008	<0.2	2.06	5	<10	240	0.5	<2	0.54	<0.5	8	41	25	2.84
ZZ20218		0.36	0.011	<0.2	2.08	9	<10	250	0.7	<2	0.56	<0.5	10	47	29	3.24
ZZ20219		0.38	0.041	<0.2	2.27	18	<10	190	0.7	<2	0.33	<0.5	10	42	24	3.18
ZZ20220		0.30	0.024	<0.2	2.60	24	<10	240	1.1	<2	0.42	<0.5	13	49	28	3.18
ZZ20231		0.22	0.008	<0.2	1.28	19	<10	90	<0.5	<2	0.19	<0.5	6	26	12	2.13
ZZ20232		0.32	0.029	<0.2	1.46	13	<10	140	<0.5	<2	0.44	<0.5	9	34	11	2.44
ZZ20233		0.22	0.003	<0.2	1.25	5	<10	100	<0.5	<2	0.38	<0.5	7	25	8	1.77
ZZ20234		0.38	0.004	<0.2	1.38	6	<10	90	<0.5	<2	0.27	<0.5	9	26	8	2.12
ZZ20235		0.20	0.002	<0.2	1.26	5	<10	90	<0.5	<2	0.31	<0.5	8	25	8	1.82
ZZ20236		0.26	0.003	<0.2	1.45	6	<10	140	<0.5	<2	0.38	<0.5	10	26	9	2.03
ZZ20237		0.30	0.003	<0.2	1.64	6	<10	140	<0.5	<2	0.39	<0.5	8	29	11	2.23
ZZ20238		0.28	0.005	<0.2	1.58	8	<10	150	<0.5	2	0.50	<0.5	8	31	12	2.20
ZZ20239		0.38	0.007	<0.2	1.72	8	<10	170	0.5	<2	0.49	<0.5	12	36	13	2.52
ZZ20240		0.40	0.004	<0.2	1.59	5	<10	130	<0.5	<2	0.26	<0.5	11	31	11	2.26
ZZ20241		0.28	0.007	<0.2	1.81	9	<10	140	<0.5	2	0.30	<0.5	8	38	12	2.30
ZZ20242		0.34	0.007	<0.2	1.84	10	<10	170	<0.5	<2	0.30	<0.5	10	41	13	2.58

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11152745

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20263		10	1	0.06	20	0.56	233	<1	0.03	17	610	8	0.01	<2	5	35
ZZ20264		<10	<1	0.05	30	0.39	219	<1	0.03	14	520	9	0.01	<2	4	34
ZZ20265		<10	<1	0.06	20	0.12	565	<1	0.01	4	270	11	0.01	<2	1	18
ZZ20266		<10	<1	0.09	50	0.49	439	<1	0.02	14	530	13	0.01	<2	4	32
ZZ20267		<10	<1	0.09	100	0.36	591	<1	0.02	13	440	13	0.01	<2	4	25
ZZ20268		<10	<1	0.12	100	0.38	2440	1	0.01	16	590	20	0.02	<2	4	28
ZZ20269		<10	<1	0.07	10	0.18	257	<1	0.02	7	270	10	0.01	<2	1	12
ZZ20270		<10	<1	0.11	50	0.38	514	<1	0.01	10	470	12	0.01	<2	3	18
ZZ20191		10	<1	0.05	10	0.44	257	<1	0.01	19	300	9	0.01	<2	4	13
ZZ20192		10	1	0.23	30	0.78	446	1	0.02	33	410	20	0.01	<2	7	23
ZZ20193		10	<1	0.06	20	0.55	560	1	0.02	18	660	11	0.02	<2	5	24
ZZ20194		10	<1	0.12	50	0.89	617	1	0.02	35	640	21	0.04	<2	10	39
ZZ20195		10	<1	0.08	20	0.63	245	<1	0.03	25	530	13	0.01	<2	7	30
ZZ20196		10	<1	0.14	20	0.70	183	<1	0.02	18	670	15	0.02	<2	4	27
ZZ20197		10	<1	0.10	20	0.71	201	<1	0.02	19	530	26	0.01	<2	5	25
ZZ20198		10	<1	0.07	10	0.55	273	<1	0.02	16	720	20	0.03	<2	4	29
ZZ20199		<10	<1	0.07	20	0.55	948	<1	0.02	16	670	14	0.03	12	4	29
ZZ20200		10	<1	0.08	20	0.60	576	<1	0.02	20	560	15	0.03	4	5	31
ZZ20211		10	<1	0.06	20	0.58	290	<1	0.02	22	490	10	0.01	<2	7	25
ZZ20212		10	1	0.20	30	0.96	438	1	0.02	28	620	8	<0.01	<2	8	24
ZZ20213		10	<1	0.11	20	0.75	310	<1	0.02	25	500	9	<0.01	<2	9	28
ZZ20214		10	<1	0.06	10	0.62	267	<1	0.02	21	520	9	0.01	<2	6	27
ZZ20215		10	<1	0.06	20	0.62	251	<1	0.02	22	590	7	0.01	<2	6	33
ZZ20216		10	<1	0.06	20	0.60	272	<1	0.02	22	570	8	0.01	<2	7	36
ZZ20217		10	1	0.06	20	0.57	291	<1	0.03	21	660	7	0.02	<2	6	38
ZZ20218		10	<1	0.06	20	0.60	348	<1	0.03	24	550	10	0.01	<2	8	38
ZZ20219		10	<1	0.06	20	0.56	301	<1	0.02	20	440	13	0.01	3	6	26
ZZ20220		10	1	0.08	30	0.58	633	<1	0.01	25	660	16	0.02	<2	7	35
ZZ20231		10	1	0.06	10	0.40	216	1	0.01	12	360	13	0.03	2	3	18
ZZ20232		10	<1	0.11	20	0.62	411	<1	0.01	14	750	8	0.03	<2	4	27
ZZ20233		<10	<1	0.05	10	0.39	251	<1	0.01	11	560	8	0.03	<2	3	23
ZZ20234		10	<1	0.04	10	0.40	446	<1	0.01	11	470	9	0.02	<2	3	20
ZZ20235		10	<1	0.04	10	0.35	303	<1	0.01	10	460	6	0.03	<2	3	21
ZZ20236		<10	<1	0.04	10	0.41	630	1	0.01	13	510	6	0.03	<2	3	25
ZZ20237		10	<1	0.05	10	0.44	256	<1	0.01	14	460	6	0.02	<2	4	26
ZZ20238		10	<1	0.05	10	0.43	304	<1	0.02	15	510	7	0.03	<2	4	28
ZZ20239		10	<1	0.06	20	0.53	609	<1	0.02	17	600	7	0.03	<2	5	28
ZZ20240		10	<1	0.04	10	0.45	645	<1	0.01	13	550	6	0.02	<2	3	21
ZZ20241		10	1	0.05	10	0.55	324	<1	0.01	17	590	7	0.02	<2	4	23
ZZ20242		10	<1	0.05	10	0.61	381	<1	0.01	17	600	6	0.02	<2	5	24

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH11152745

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ20263		<20	0.11	<10	<10	61	<10	59
ZZ20264		<20	0.08	<10	<10	47	<10	47
ZZ20265		20	0.01	<10	<10	16	<10	21
ZZ20266		20	0.07	<10	<10	47	<10	63
ZZ20267		30	0.04	<10	<10	37	<10	40
ZZ20268		30	0.03	<10	<10	37	<10	63
ZZ20269		<20	0.05	<10	<10	34	<10	33
ZZ20270		20	0.06	<10	<10	34	<10	56
ZZ20191		<20	0.12	<10	<10	75	<10	54
ZZ20192		<20	0.14	<10	<10	67	<10	69
ZZ20193		<20	0.09	<10	<10	66	<10	55
ZZ20194		<20	0.13	<10	<10	88	<10	93
ZZ20195		<20	0.13	<10	<10	67	<10	66
ZZ20196		<20	0.12	<10	<10	54	<10	67
ZZ20197		<20	0.14	<10	<10	66	<10	78
ZZ20198		<20	0.09	<10	<10	46	<10	67
ZZ20199		<20	0.09	<10	<10	55	<10	63
ZZ20200		<20	0.09	<10	<10	63	<10	75
ZZ20211		<20	0.12	<10	<10	74	<10	61
ZZ20212		<20	0.15	<10	<10	76	<10	60
ZZ20213		<20	0.14	<10	<10	72	<10	61
ZZ20214		<20	0.12	<10	<10	72	<10	60
ZZ20215		<20	0.11	<10	<10	71	<10	55
ZZ20216		<20	0.12	<10	<10	72	<10	55
ZZ20217		<20	0.11	<10	<10	66	<10	54
ZZ20218		<20	0.14	<10	<10	74	<10	59
ZZ20219		<20	0.11	<10	<10	72	<10	52
ZZ20220		<20	0.09	<10	<10	72	<10	61
ZZ20231		<20	0.08	<10	<10	52	<10	44
ZZ20232		<20	0.09	<10	<10	56	<10	60
ZZ20233		<20	0.07	<10	<10	41	<10	45
ZZ20234		<20	0.08	<10	<10	56	<10	51
ZZ20235		<20	0.07	<10	<10	49	<10	43
ZZ20236		<20	0.08	<10	<10	54	<10	53
ZZ20237		<20	0.08	<10	<10	57	<10	55
ZZ20238		<20	0.08	<10	<10	56	<10	50
ZZ20239		<20	0.09	<10	<10	60	<10	56
ZZ20240		<20	0.07	<10	<10	54	<10	51
ZZ20241		<20	0.09	<10	<10	56	<10	51
ZZ20242		<20	0.08	<10	<10	59	<10	52

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Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ20243		0.32	0.005	<0.2	1.93	9	<10	150	<0.5	<2	0.33	<0.5	9	35	15	2.47
ZZ20244		0.46	0.005	<0.2	1.84	9	<10	180	<0.5	<2	0.37	<0.5	10	34	25	2.66
ZZ20245		0.40	0.005	<0.2	1.81	7	<10	200	<0.5	<2	0.42	<0.5	9	33	21	2.55
ZZ20246		0.44	0.005	<0.2	1.83	8	<10	200	0.5	<2	0.48	<0.5	10	37	27	2.76
ZZ20247		0.48	0.007	<0.2	1.83	10	<10	190	0.7	<2	0.50	<0.5	11	44	28	2.90
ZZ20248		0.22	0.001	<0.2	0.88	5	<10	40	<0.5	<2	0.09	<0.5	3	15	10	1.72
ZZ20249		0.28	0.010	<0.2	1.91	10	<10	100	0.5	<2	0.33	<0.5	9	41	14	2.63
ZZ20250		0.44	0.004	<0.2	1.71	12	<10	130	0.6	<2	0.34	<0.5	7	41	19	2.52
ZZ20131		0.22	0.044	<0.2	1.79	27	<10	130	0.6	<2	0.24	<0.5	12	28	15	2.79
ZZ20132		0.22	0.086	0.3	2.25	33	<10	380	0.9	2	0.56	<0.5	10	30	27	3.03
ZZ20133		0.42	0.027	<0.2	2.03	15	<10	180	0.6	<2	0.24	<0.5	9	31	18	2.50
ZZ20134		0.16	0.017	0.2	1.79	14	<10	200	0.6	2	0.33	<0.5	6	29	19	2.22
ZZ20135		0.24	0.043	<0.2	2.01	17	<10	210	0.6	<2	0.41	<0.5	9	31	20	2.77
ZZ20136		0.20	0.040	<0.2	2.03	16	<10	250	0.7	2	0.54	<0.5	10	31	22	2.65
ZZ20137		0.18	0.044	<0.2	2.09	19	<10	250	0.7	<2	0.51	<0.5	10	31	22	2.70
ZZ20138		0.18	0.046	<0.2	2.17	21	<10	270	0.8	3	0.55	<0.5	9	32	25	2.75
ZZ20139		0.34	0.037	<0.2	1.87	15	<10	170	0.5	<2	0.32	<0.5	8	29	15	2.63
ZZ20140		0.20	0.025	<0.2	2.00	14	<10	180	0.5	<2	0.34	<0.5	8	30	16	2.66
CC144921		0.16	0.019	0.2	2.31	13	<10	240	0.8	2	0.51	<0.5	9	39	22	2.69
CC144922		0.32	0.023	<0.2	1.83	31	<10	180	0.7	<2	0.41	<0.5	9	41	18	2.84
CC144923		0.24	0.003	<0.2	2.13	11	<10	180	0.5	<2	0.33	<0.5	9	42	16	2.90
CC144924		0.32	0.006	<0.2	2.07	10	<10	160	<0.5	<2	0.32	<0.5	10	40	15	3.09
CC144925		0.22	0.006	<0.2	1.80	9	<10	150	<0.5	<2	0.41	<0.5	9	40	13	2.85
CC144926		0.18	0.011	<0.2	2.23	12	<10	250	0.6	<2	0.50	<0.5	12	47	24	3.09
CC144927		0.16	0.002	<0.2	1.72	11	<10	120	<0.5	<2	0.20	<0.5	6	35	13	2.60
CC144928		0.22	0.013	<0.2	1.98	35	<10	220	0.7	2	0.52	<0.5	11	52	18	3.20
CC144929		0.24	0.012	<0.2	2.37	16	<10	250	0.5	<2	0.49	<0.5	10	46	19	3.23
CC144930		0.24	0.009	<0.2	2.11	34	<10	180	0.5	<2	0.45	<0.5	13	71	19	3.23
CC144951		0.08	0.011	<0.2	1.64	11	<10	120	<0.5	2	0.24	<0.5	5	23	11	1.98
CC144952		0.30	0.028	<0.2	1.66	22	<10	130	0.5	2	0.26	<0.5	7	24	13	2.35
CC144953		0.20	0.056	<0.2	1.63	30	<10	120	<0.5	<2	0.22	<0.5	6	23	13	2.07
CC144954		0.30	0.021	<0.2	1.97	14	<10	190	0.6	2	0.23	<0.5	8	29	17	2.54
CC144955		0.22	0.019	<0.2	1.61	10	<10	120	<0.5	<2	0.29	<0.5	7	24	13	2.22
CC144956		0.18	0.018	<0.2	2.01	12	<10	190	0.6	3	0.31	<0.5	9	29	18	2.71
CC144957		0.34	0.014	<0.2	1.73	11	<10	150	0.5	<2	0.28	<0.5	8	26	14	2.53
CC144958		0.26	0.014	<0.2	1.97	12	<10	170	0.6	2	0.33	<0.5	7	35	15	2.59
CC144959		0.28	0.014	<0.2	1.84	8	<10	180	0.6	<2	0.37	<0.5	7	33	18	2.56
CC144960		0.24	0.012	<0.2	1.82	11	<10	140	0.5	2	0.36	<0.5	7	33	17	2.52
CC144961		0.22	0.008	<0.2	1.74	10	<10	110	<0.5	2	0.31	<0.5	9	31	11	2.51
CC144962		0.24	0.014	<0.2	1.84	10	<10	140	0.5	2	0.29	<0.5	7	32	13	2.48

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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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VANCOUVER BC V6B 1L8

Finalized Date: 26- SEP- 2011
Account: F

Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152745

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20243		10	<1	0.05	10	0.56	237	<1	0.01	19	590	6	0.01	<2	5	24
ZZ20244		10	1	0.05	10	0.56	250	1	0.02	26	620	12	0.01	<2	5	27
ZZ20245		10	1	0.05	20	0.53	327	<1	0.02	21	680	7	0.02	<2	5	31
ZZ20246		10	1	0.06	20	0.58	272	<1	0.02	22	560	7	0.01	<2	6	33
ZZ20247		10	1	0.07	20	0.67	382	<1	0.02	25	580	9	0.01	<2	7	34
ZZ20248		<10	<1	0.03	<10	0.14	123	1	0.01	7	260	5	0.02	<2	1	11
ZZ20249		10	1	0.12	20	0.80	254	<1	0.01	21	300	6	0.01	<2	4	30
ZZ20250		10	1	0.09	30	0.65	280	<1	0.01	21	390	8	0.01	<2	5	27
ZZ20131		10	<1	0.08	30	0.43	508	1	0.02	16	290	14	0.01	<2	3	21
ZZ20132		10	1	0.10	110	0.48	885	1	0.02	18	560	47	0.02	<2	6	47
ZZ20133		10	<1	0.07	20	0.49	235	<1	0.01	18	410	15	0.01	<2	4	22
ZZ20134		10	1	0.07	30	0.37	247	1	0.01	17	610	13	0.03	2	3	31
ZZ20135		10	<1	0.10	40	0.49	400	<1	0.01	17	590	15	0.02	2	5	31
ZZ20136		10	1	0.10	50	0.48	483	<1	0.01	17	560	15	0.03	<2	6	38
ZZ20137		10	1	0.10	50	0.48	507	<1	0.02	17	610	15	0.03	<2	6	37
ZZ20138		10	<1	0.10	60	0.46	424	<1	0.02	18	700	15	0.04	<2	6	40
ZZ20139		10	<1	0.07	30	0.49	351	<1	0.01	15	400	13	0.01	<2	4	27
ZZ20140		10	1	0.08	30	0.48	402	<1	0.01	15	450	13	0.02	<2	4	29
CC144921		10	1	0.04	30	0.39	449	1	0.02	21	640	11	0.04	<2	7	33
CC144922		10	1	0.08	20	0.60	361	<1	0.01	18	600	13	0.01	3	7	27
CC144923		10	1	0.07	10	0.62	339	<1	0.02	18	440	15	0.01	<2	5	26
CC144924		10	<1	0.06	10	0.69	335	1	0.01	19	380	8	0.01	<2	5	23
CC144925		10	1	0.09	10	0.78	347	<1	0.01	19	440	6	0.01	<2	5	25
CC144926		10	1	0.11	20	0.70	544	1	0.01	23	530	14	0.02	<2	7	29
CC144927		10	<1	0.09	10	0.49	219	1	0.01	19	250	12	0.01	<2	4	18
CC144928		10	1	0.18	20	0.81	548	1	0.01	25	590	9	0.01	<2	9	29
CC144929		10	1	0.09	10	0.73	386	1	0.01	22	370	13	0.01	3	6	29
CC144930		10	<1	0.21	10	1.25	413	1	0.01	31	710	5	0.01	<2	7	25
CC144951		10	1	0.07	30	0.34	171	<1	0.01	12	480	13	0.02	<2	3	22
CC144952		10	1	0.07	40	0.38	324	<1	0.01	12	560	15	0.01	<2	4	22
CC144953		10	<1	0.07	30	0.35	252	<1	0.01	11	460	15	0.02	<2	3	20
CC144954		10	1	0.07	30	0.45	277	<1	0.01	14	500	17	0.01	2	4	22
CC144955		10	1	0.08	30	0.41	301	<1	0.01	12	510	15	0.01	<2	3	23
CC144956		10	1	0.11	40	0.47	454	<1	0.01	15	510	13	0.02	<2	5	26
CC144957		10	1	0.12	40	0.46	356	<1	0.01	13	530	10	0.01	<2	4	23
CC144958		10	1	0.14	50	0.55	302	<1	0.01	19	550	13	0.01	2	5	27
CC144959		10	1	0.13	50	0.56	310	<1	0.01	18	550	9	0.01	<2	5	29
CC144960		10	<1	0.10	30	0.54	266	<1	0.01	19	580	9	0.01	<2	4	27
CC144961		10	<1	0.10	30	0.50	347	<1	0.01	16	490	9	<0.01	2	3	24
CC144962		10	1	0.09	30	0.51	261	<1	0.01	16	450	9	0.01	<2	4	23

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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VANCOUVER BC V6B 1L8

Finalized Date: 26- SEP- 2011
Account: F

Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152745

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ20243		<20	0.10	<10	<10	60	<10	53
ZZ20244		<20	0.10	<10	<10	62	<10	59
ZZ20245		<20	0.09	<10	<10	59	<10	52
ZZ20246		<20	0.11	<10	<10	64	<10	55
ZZ20247		<20	0.13	<10	<10	67	<10	60
ZZ20248		<20	0.06	<10	<10	43	<10	25
ZZ20249		<20	0.12	<10	<10	59	<10	43
ZZ20250		<20	0.12	<10	<10	57	<10	45
ZZ20131		<20	0.09	<10	<10	55	<10	54
ZZ20132		20	0.08	<10	<10	58	<10	67
ZZ20133		<20	0.07	<10	<10	52	<10	59
ZZ20134		<20	0.06	<10	<10	43	<10	51
ZZ20135		<20	0.08	<10	<10	52	<10	64
ZZ20136		<20	0.07	<10	<10	49	<10	63
ZZ20137		<20	0.07	<10	<10	50	<10	65
ZZ20138		<20	0.07	<10	<10	49	<10	64
ZZ20139		<20	0.09	<10	<10	54	<10	55
ZZ20140		<20	0.08	<10	<10	57	<10	60
CC144921		<20	0.07	<10	<10	57	<10	48
CC144922		<20	0.10	<10	<10	64	<10	64
CC144923		<20	0.11	<10	<10	71	<10	52
CC144924		<20	0.11	<10	<10	75	<10	52
CC144925		<20	0.12	<10	<10	67	<10	48
CC144926		<20	0.11	<10	<10	71	<10	56
CC144927		<20	0.10	<10	<10	68	<10	56
CC144928		<20	0.11	<10	<10	76	<10	61
CC144929		<20	0.11	<10	<10	74	<10	58
CC144930		<20	0.12	<10	<10	69	<10	54
CC144951		<20	0.06	<10	<10	42	<10	51
CC144952		<20	0.07	<10	<10	45	<10	53
CC144953		<20	0.06	<10	<10	47	<10	47
CC144954		<20	0.08	<10	<10	51	<10	59
CC144955		<20	0.08	<10	<10	47	<10	57
CC144956		<20	0.09	<10	<10	52	<10	65
CC144957		<20	0.10	<10	<10	47	<10	59
CC144958		<20	0.09	<10	<10	49	<10	58
CC144959		20	0.11	<10	<10	48	<10	58
CC144960		<20	0.10	<10	<10	50	<10	55
CC144961		<20	0.11	<10	<10	50	<10	54
CC144962		<20	0.10	<10	<10	51	<10	51

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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VANCOUVER BC V6B 1L8

Finalized Date: 26- SEP- 2011
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Project: DAN MAN - ARCUS

CERTIFICATE OF ANALYSIS WH11152745

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144963		0.24	0.011	<0.2	1.84	10	<10	110	<0.5	3	0.31	<0.5	10	28	9	2.79
CC144964		0.32	0.006	<0.2	1.75	8	<10	140	<0.5	<2	0.32	<0.5	8	30	12	2.45
CC144965		0.30	0.005	<0.2	1.94	9	<10	150	0.5	2	0.32	<0.5	10	28	10	2.90
CC144966		0.26	0.005	<0.2	1.80	7	<10	160	0.5	<2	0.32	<0.5	7	26	11	2.61
CC144967		0.18	0.005	<0.2	1.70	9	<10	190	0.7	<2	0.47	<0.5	7	25	13	2.51
CC144968		0.22	0.023	<0.2	1.39	13	<10	140	0.5	<2	0.52	<0.5	8	23	11	2.26
CC144969		0.18	0.020	<0.2	1.51	14	<10	150	0.5	<2	0.35	<0.5	10	25	15	2.46
CC144970		0.28	0.023	<0.2	1.68	18	<10	140	0.5	<2	0.34	<0.5	12	27	13	2.70
CC144971		0.10	0.009	<0.2	1.32	6	<10	100	<0.5	<2	0.33	<0.5	5	23	9	1.78
CC144972		0.18	0.036	<0.2	1.61	16	<10	180	0.7	2	0.40	<0.5	9	30	15	2.29
CC144973		0.26	0.009	<0.2	1.41	11	<10	170	0.5	<2	0.52	<0.5	9	27	20	2.43
CC144974		0.34	0.012	<0.2	1.57	13	<10	210	0.6	<2	0.70	<0.5	10	28	23	2.51
CC144975		0.10	0.021	<0.2	1.42	13	<10	210	0.6	<2	0.97	<0.5	10	25	17	2.32
CC144976		0.06	0.026	<0.2	1.17	4	<10	190	0.5	<2	1.89	<0.5	7	32	16	1.63
CC144977		0.12	0.014	<0.2	1.04	9	<10	60	<0.5	2	0.19	<0.5	3	17	8	1.59
CC144978		0.10	0.005	<0.2	1.13	6	<10	80	<0.5	2	0.21	<0.5	3	19	8	1.52
CC144979		0.20	0.006	<0.2	1.45	15	<10	80	<0.5	<2	0.25	<0.5	11	22	8	2.39
CC144980		0.10	0.008	<0.2	1.18	6	<10	70	<0.5	2	0.17	<0.5	3	18	8	1.43

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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11152745

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144963		10	1	0.07	30	0.49	370	<1	0.01	13	450	8	<0.01	<2	3	23
CC144964		10	1	0.08	30	0.49	291	<1	0.01	14	530	9	0.01	<2	4	26
CC144965		10	<1	0.10	40	0.50	503	1	0.01	13	490	10	<0.01	2	4	25
CC144966		10	1	0.08	40	0.48	353	<1	0.01	14	400	8	<0.01	<2	4	26
CC144967		10	1	0.13	80	0.43	375	<1	0.01	12	480	9	0.01	<2	4	33
CC144968		<10	1	0.08	40	0.42	537	<1	0.02	12	660	10	0.03	<2	4	33
CC144969		10	1	0.06	30	0.44	401	<1	0.02	14	670	11	0.03	<2	4	27
CC144970		10	1	0.08	30	0.52	974	<1	0.02	13	640	13	0.01	<2	4	26
CC144971		10	<1	0.06	10	0.44	172	<1	0.02	12	590	9	0.02	<2	3	24
CC144972		10	1	0.11	50	0.54	957	1	0.02	20	700	28	0.02	<2	5	34
CC144973		<10	<1	0.07	20	0.49	319	<1	0.02	18	590	11	0.02	<2	4	36
CC144974		<10	1	0.07	30	0.52	405	<1	0.02	19	630	12	0.02	<2	5	47
CC144975		<10	1	0.07	30	0.47	563	<1	0.02	16	680	11	0.04	<2	5	53
CC144976		<10	1	0.12	70	0.40	771	1	0.02	13	690	14	0.10	<2	3	80
CC144977		<10	<1	0.09	40	0.26	124	<1	0.01	7	570	14	0.03	<2	1	17
CC144978		<10	1	0.06	20	0.26	102	<1	0.01	9	540	8	0.04	<2	2	19
CC144979		10	<1	0.10	30	0.42	661	<1	0.01	12	540	12	0.01	<2	3	20
CC144980		10	1	0.06	20	0.25	109	<1	0.01	7	450	9	0.03	<2	2	17

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CERTIFICATE OF ANALYSIS WH11152745

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144963		<20	0.09	<10	<10	58	<10	49
CC144964		<20	0.09	<10	<10	51	<10	51
CC144965		<20	0.09	<10	<10	60	<10	55
CC144966		<20	0.09	<10	<10	51	<10	51
CC144967		20	0.08	<10	<10	47	<10	50
CC144968		<20	0.07	<10	<10	46	<10	55
CC144969		<20	0.07	<10	<10	50	<10	54
CC144970		<20	0.09	<10	<10	58	<10	63
CC144971		<20	0.08	<10	<10	39	<10	52
CC144972		<20	0.07	<10	<10	48	<10	69
CC144973		<20	0.09	<10	<10	55	<10	62
CC144974		<20	0.09	<10	<10	57	<10	63
CC144975		<20	0.07	<10	<10	50	<10	70
CC144976		<20	0.06	<10	<10	29	<10	52
CC144977		<20	0.05	<10	<10	27	<10	34
CC144978		<20	0.05	<10	<10	25	<10	37
CC144979		<20	0.08	<10	<10	66	<10	59
CC144980		<20	0.06	<10	<10	25	<10	34

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CERTIFICATE WH11158270

Project: Arcus - Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 13- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SPL- 22Y	Split Sample - Boyd Rotary Splitter
CRU- QC	Crushing QC Test
CRU- 31	Fine crushing - 70% < 2mm
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 26- AUG- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158270

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
J998172		4.86	<0.005	<0.2	0.40	5	<10	40	0.5	<2	1.51	<0.5	1	3	2	0.47
J998173		5.31	<0.005	0.2	2.41	13	<10	440	4.0	<2	4.61	<0.5	23	88	17	4.49
J998174		7.94	<0.005	<0.2	0.35	6	<10	30	0.6	<2	1.03	<0.5	1	4	<1	0.59
J998175		5.70	<0.005	<0.2	0.59	5	<10	50	0.5	<2	1.01	<0.5	3	5	<1	1.22
J998176		1.00	<0.005	<0.2	2.86	7	<10	940	2.4	<2	3.03	0.5	20	5	5	4.10
J998177		2.50	<0.005	<0.2	0.38	6	<10	10	0.5	<2	0.87	<0.5	1	5	8	0.82
J998178		3.58	<0.005	<0.2	0.37	4	<10	10	0.6	<2	0.42	<0.5	1	4	2	0.83
J998179		3.32	0.021	0.3	0.26	13	<10	<10	0.5	<2	0.71	<0.5	1	4	4	0.75
J998180		8.29	<0.005	<0.2	0.43	7	<10	10	0.7	<2	0.64	<0.5	1	4	3	0.90
J998181		1.51	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	18.0	<0.5	2	<1	1	0.42
J998182		0.50	<0.005	<0.2	4.26	24	<10	150	4.9	<2	2.45	<0.5	28	22	21	6.35
J998183		4.23	<0.005	<0.2	0.38	17	<10	10	0.6	<2	0.38	<0.5	2	4	2	0.92
J998184		4.11	<0.005	<0.2	0.46	43	<10	10	0.8	<2	1.62	<0.5	5	4	2	1.05
J998185		6.60	<0.005	<0.2	0.35	2	<10	10	0.5	<2	0.60	<0.5	1	4	3	0.83
J998186		3.85	<0.005	<0.2	0.52	4	<10	10	0.6	<2	0.84	<0.5	2	5	2	0.92
J998187		0.10	0.815	14.3	0.99	24	<10	30	<0.5	<2	0.29	55.7	11	43	5000	9.12
J998188		2.15	0.017	0.2	0.35	12	<10	20	0.5	<2	0.79	<0.5	1	4	14	0.52
J998189		3.74	<0.005	0.2	0.33	4	<10	20	<0.5	<2	1.24	<0.5	1	4	3	0.40
J998190		4.77	<0.005	<0.2	0.44	5	<10	20	0.5	<2	0.53	<0.5	1	5	2	0.88
J998191		4.55	0.019	0.4	0.38	35	<10	10	0.6	<2	0.51	<0.5	1	4	6	0.83
J998192		7.22	<0.005	<0.2	0.41	3	<10	10	<0.5	<2	0.45	<0.5	1	5	3	0.80
J998193		3.80	<0.005	0.2	0.34	3	<10	10	0.5	<2	0.44	<0.5	1	4	1	0.68
J998194		6.54	<0.005	<0.2	0.40	<2	<10	10	<0.5	<2	0.56	<0.5	1	6	1	0.62
J998195		6.22	<0.005	<0.2	0.40	<2	<10	10	0.5	<2	0.52	<0.5	1	5	1	0.63
J998196		1.25	0.005	0.2	0.03	<2	<10	<10	<0.5	<2	18.2	<0.5	2	<1	1	0.44
J998197		6.79	<0.005	<0.2	0.42	2	<10	20	0.6	<2	0.93	<0.5	1	5	3	0.55
J998198		6.75	<0.005	0.2	0.46	4	<10	10	0.6	<2	1.19	<0.5	2	6	1	0.70
J998199		3.68	0.005	<0.2	0.53	4	<10	10	0.7	<2	1.04	<0.5	3	5	1	1.02
J998200		7.09	<0.005	<0.2	0.39	3	<10	10	0.5	<2	0.63	<0.5	1	6	1	0.59
J998201		6.95	<0.005	0.2	0.41	<2	<10	20	<0.5	<2	0.75	<0.5	1	5	3	0.58
J998202		0.26	0.357	52.3	1.15	95	<10	50	<0.5	2	0.49	21.3	17	32	4270	4.53
J998203		1.94	<0.005	<0.2	0.33	3	<10	40	<0.5	<2	1.34	<0.5	<1	5	12	0.28
J998204		5.00	<0.005	0.2	0.30	4	<10	20	<0.5	<2	0.76	<0.5	1	5	2	0.43
J998205		5.02	<0.005	0.2	0.41	7	<10	20	0.6	<2	0.92	<0.5	1	7	2	0.54
J998206		1.62	<0.005	<0.2	0.40	6	<10	20	0.6	<2	0.60	<0.5	1	5	1	0.73
J998207		7.10	<0.005	0.2	0.38	18	<10	30	0.5	<2	1.07	<0.5	<1	5	1	0.35

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26- AUG- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158270

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
J998172		<10	1	0.23	30	0.06	208	<1	0.06	<1	120	4	<0.01	<2	<1	38
J998173		10	<1	1.61	30	2.20	1025	1	0.03	45	1330	8	0.16	<2	14	128
J998174		<10	<1	0.21	30	0.04	222	<1	0.05	<1	100	12	<0.01	<2	<1	24
J998175		<10	1	0.32	40	0.25	348	<1	0.06	<1	240	8	0.05	<2	2	32
J998176		10	<1	2.00	20	2.19	882	<1	0.02	3	1100	4	0.19	<2	9	114
J998177		<10	<1	0.19	30	0.05	242	2	0.03	6	110	16	<0.01	<2	1	22
J998178		<10	<1	0.19	30	0.05	180	1	0.03	2	100	9	<0.01	2	1	14
J998179		<10	<1	0.14	30	0.03	219	2	0.02	1	80	10	<0.01	<2	1	14
J998180		<10	<1	0.18	30	0.07	225	1	0.04	1	110	8	<0.01	2	1	23
J998181		<10	<1	0.01	<10	11.60	208	<1	<0.01	<1	160	2	<0.01	2	<1	54
J998182		10	<1	2.93	30	2.99	1025	1	<0.01	7	1250	9	0.04	8	24	49
J998183		<10	<1	0.17	30	0.07	276	1	0.02	1	100	10	<0.01	3	1	13
J998184		<10	<1	0.17	20	0.08	345	2	0.01	2	250	19	0.02	4	3	23
J998185		<10	<1	0.20	30	0.06	247	1	0.04	1	110	10	<0.01	2	1	24
J998186		<10	<1	0.29	30	0.14	283	3	0.04	1	140	10	<0.01	<2	1	23
J998187		<10	2	0.10	<10	0.95	344	14	<0.01	21	100	239	>10.0	<2	2	8
J998188		<10	<1	0.20	40	0.03	359	2	0.03	1	80	8	0.01	<2	1	20
J998189		<10	<1	0.22	40	0.03	276	2	0.03	1	60	6	<0.01	<2	<1	29
J998190		<10	<1	0.28	40	0.07	234	1	0.05	1	130	7	0.01	<2	1	20
J998191		<10	<1	0.19	30	0.04	245	2	0.01	1	90	82	<0.01	3	<1	14
J998192		<10	<1	0.24	40	0.10	271	3	0.04	1	120	12	<0.01	<2	1	16
J998193		<10	<1	0.21	30	0.04	203	2	0.03	1	90	6	<0.01	<2	<1	15
J998194		<10	<1	0.22	30	0.08	240	2	0.04	1	100	9	<0.01	<2	<1	21
J998195		<10	<1	0.23	30	0.05	187	1	0.04	1	90	11	<0.01	<2	<1	25
J998196		<10	<1	0.01	<10	11.75	210	<1	<0.01	1	170	2	<0.01	3	<1	50
J998197		<10	<1	0.28	30	0.09	226	1	0.04	1	100	13	<0.01	<2	<1	36
J998198		<10	<1	0.24	30	0.08	228	1	0.04	1	110	10	<0.01	2	1	47
J998199		<10	<1	0.29	40	0.11	369	4	0.04	1	150	9	<0.01	<2	1	29
J998200		<10	<1	0.19	40	0.04	181	1	0.04	<1	110	7	<0.01	<2	1	24
J998201		<10	<1	0.21	40	0.06	206	1	0.05	1	110	9	0.02	<2	1	35
J998202		10	1	0.52	10	0.65	485	171	0.03	23	880	2070	2.55	66	7	38
J998203		<10	<1	0.18	20	0.02	139	1	0.04	<1	20	6	<0.01	<2	<1	60
J998204		<10	<1	0.16	30	0.02	151	1	0.03	1	90	8	<0.01	<2	<1	26
J998205		<10	<1	0.18	30	0.03	167	1	0.05	1	70	7	<0.01	<2	1	25
J998206		<10	<1	0.18	30	0.02	218	1	0.07	1	110	7	<0.01	<2	1	25
J998207		<10	<1	0.20	20	0.01	142	1	0.05	1	20	5	<0.01	<2	1	33

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26- AUG- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158270

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
J998172		30	<0.01	<10	<10	2	<10	5	
J998173		<20	0.15	<10	<10	107	<10	76	
J998174		40	<0.01	<10	<10	2	<10	9	
J998175		30	0.03	<10	<10	13	<10	21	
J998176		<20	0.20	<10	10	110	<10	67	
J998177		40	0.01	<10	<10	3	<10	21	
J998178		30	0.01	<10	<10	3	<10	16	
J998179		30	<0.01	<10	<10	2	<10	15	
J998180		40	0.01	<10	<10	6	<10	12	
J998181		<20	<0.01	<10	<10	1	<10	14	
J998182		<20	0.27	<10	<10	209	<10	86	
J998183		30	0.01	<10	<10	6	<10	18	
J998184		30	<0.01	<10	<10	12	<10	23	
J998185		30	0.01	<10	<10	3	<10	15	
J998186		30	0.02	<10	10	7	<10	17	
J998187		<20	0.02	<10	<10	17	<10	>10000	1.375
J998188		40	<0.01	<10	<10	2	<10	41	
J998189		30	<0.01	<10	<10	1	<10	6	
J998190		30	0.01	<10	<10	2	<10	17	
J998191		30	<0.01	<10	<10	1	<10	13	
J998192		40	0.01	<10	<10	2	<10	18	
J998193		40	0.01	<10	<10	1	<10	11	
J998194		40	0.01	<10	<10	2	<10	12	
J998195		40	<0.01	<10	<10	1	<10	16	
J998196		<20	<0.01	<10	<10	1	<10	17	
J998197		30	<0.01	<10	<10	1	<10	13	
J998198		40	0.01	<10	<10	4	<10	7	
J998199		40	0.01	<10	<10	6	<10	17	
J998200		40	<0.01	<10	<10	1	<10	6	
J998201		40	<0.01	<10	<10	1	<10	12	
J998202		<20	0.09	<10	<10	86	<10	2550	
J998203		40	<0.01	<10	<10	<1	<10	8	
J998204		30	<0.01	<10	<10	1	<10	4	
J998205		40	<0.01	<10	<10	1	<10	5	
J998206		30	<0.01	<10	<10	2	<10	8	
J998207		40	<0.01	<10	<10	<1	<10	<2	

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Finalized Date: 26- AUG- 2011
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CERTIFICATE WH11158271

Project: Arcus Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 13- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH11158271

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
J998136		1.35	0.064	<0.2	0.36	52	10	40	0.6	<2	0.05	<0.5	1	5	5	0.50
J998137		3.19	0.273	<0.2	0.51	1050	10	160	1.7	<2	0.20	<0.5	8	16	6	2.56
J998138		3.01	0.059	<0.2	0.49	175	10	60	1.0	<2	0.10	<0.5	3	7	5	0.98
J998139		5.89	0.068	<0.2	0.67	70	<10	20	0.6	<2	0.03	<0.5	<1	13	3	0.47
J998140		3.23	0.045	<0.2	0.48	115	<10	20	0.6	<2	0.02	<0.5	1	3	2	0.54
J998141		4.17	0.065	<0.2	0.50	109	<10	70	0.9	3	0.03	<0.5	2	6	5	0.85
J998142		4.81	0.201	<0.2	0.60	321	<10	170	2.8	4	0.09	<0.5	8	10	7	2.14
J998143		1.39	<0.005	<0.2	0.04	3	<10	20	<0.5	4	19.0	<0.5	1	<1	1	0.42
J998144		3.56	0.005	<0.2	0.55	26	<10	60	0.7	<2	0.08	<0.5	1	5	12	0.75
J998145		3.18	0.008	<0.2	0.43	8	<10	50	0.5	<2	0.08	<0.5	1	5	1	0.39
J998146		4.02	0.047	<0.2	0.48	20	<10	70	0.9	<2	0.08	<0.5	3	5	1	0.90
J998147		5.70	0.010	<0.2	0.44	22	<10	90	0.6	<2	0.08	<0.5	2	7	1	1.05
J998148		5.88	0.006	<0.2	0.52	26	<10	90	0.7	<2	0.09	<0.5	2	5	2	0.98
J998149		1.97	<0.005	<0.2	1.68	97	<10	150	2.0	<2	0.27	<0.5	9	15	2	2.82
J998150		3.65	<0.005	<0.2	0.54	16	<10	60	0.6	<2	0.09	<0.5	1	5	1	0.93
J998151		4.10	<0.005	0.2	0.46	12	<10	50	0.6	<2	0.09	<0.5	1	6	2	0.80
J998152		0.13	1.510	14.6	0.98	25	<10	40	<0.5	6	0.30	55.5	9	43	4970	9.01
J998153		3.39	<0.005	<0.2	0.58	24	<10	60	0.8	<2	0.12	<0.5	1	5	42	0.90
J998154		6.53	<0.005	<0.2	0.51	10	<10	60	0.6	<2	0.10	<0.5	1	5	2	0.97
J998155		4.70	<0.005	<0.2	0.46	14	<10	50	0.7	<2	0.10	<0.5	1	5	1	0.98
J998156		0.53	<0.005	<0.2	0.45	33	<10	80	0.7	<2	0.12	<0.5	2	5	1	1.16
J998157		4.31	<0.005	<0.2	0.56	17	<10	80	0.8	<2	0.11	<0.5	1	5	4	1.13
J998158		Destroyed														
J998159		3.89	<0.005	<0.2	0.52	13	<10	60	0.6	<2	0.24	<0.5	2	5	<1	1.13
J998160		6.84	0.014	<0.2	0.47	28	<10	60	0.6	<2	0.36	<0.5	1	5	1	0.89
J998161		2.02	<0.005	0.3	0.03	<2	<10	10	<0.5	<2	19.7	<0.5	<1	<1	6	0.43
J998162		2.18	<0.005	<0.2	0.35	8	<10	30	0.5	<2	0.56	<0.5	1	6	<1	0.77
J998163		1.49	<0.005	<0.2	0.49	4	<10	90	0.5	<2	1.33	<0.5	1	4	3	0.37
J998164		4.38	<0.005	<0.2	0.42	8	<10	30	0.5	<2	1.13	<0.5	2	6	1	0.95
J998165		3.43	<0.005	<0.2	2.00	11	<10	110	1.5	<2	2.51	<0.5	11	7	6	3.36
J998166		4.59	<0.005	<0.2	2.76	10	<10	130	2.0	<2	3.82	<0.5	21	10	6	4.48
J998167		3.56	<0.005	<0.2	1.23	13	<10	70	1.1	<2	2.32	<0.5	8	5	4	2.66
J998168		7.75	<0.005	<0.2	0.64	7	<10	50	0.6	<2	1.10	<0.5	3	6	2	1.18
J998169		0.10	1.930	14.9	1.04	24	<10	40	<0.5	6	0.31	56.8	10	44	5150	9.28
J998170		0.84	<0.005	<0.2	3.79	6	<10	330	2.5	2	3.10	<0.5	26	8	9	5.01
J998171		2.54	<0.005	<0.2	0.61	8	<10	50	0.5	<2	0.89	<0.5	2	5	3	0.97

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

Finalized Date: 26- AUG- 2011
Account: F

Project: Arcus Dan Man

CERTIFICATE OF ANALYSIS WH11158271

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
J998136		<10	<1	0.21	20	0.02	161	1	<0.01	2	70	11	<0.01	4	<1	6
J998137		<10	<1	0.30	30	0.05	630	1	<0.01	17	760	25	<0.01	18	3	15
J998138		<10	<1	0.23	20	0.04	199	1	<0.01	4	160	13	<0.01	6	1	28
J998139		<10	<1	0.19	20	0.02	97	1	<0.01	1	60	10	<0.01	4	<1	11
J998140		<10	<1	0.18	20	0.02	110	1	<0.01	2	70	13	<0.01	9	<1	20
J998141		<10	<1	0.17	20	0.02	210	<1	<0.01	3	140	10	<0.01	13	1	27
J998142		<10	<1	0.21	20	0.07	645	<1	<0.01	9	350	15	<0.01	17	3	55
J998143		<10	<1	0.02	<10	11.60	201	<1	<0.01	<1	180	2	<0.01	<2	<1	50
J998144		<10	<1	0.22	40	0.05	177	1	0.03	9	160	13	<0.01	<2	<1	10
J998145		<10	<1	0.21	40	0.05	91	<1	0.03	<1	80	7	<0.01	<2	<1	8
J998146		<10	<1	0.21	40	0.05	188	<1	0.04	1	200	7	<0.01	<2	1	13
J998147		<10	<1	0.22	40	0.05	226	<1	0.05	<1	170	11	<0.01	<2	<1	10
J998148		<10	<1	0.23	40	0.07	242	<1	0.05	<1	170	6	0.01	2	1	9
J998149		<10	<1	0.84	30	0.69	484	<1	0.03	2	670	11	<0.01	10	7	17
J998150		<10	<1	0.24	30	0.10	155	<1	0.06	<1	160	9	<0.01	<2	1	7
J998151		<10	<1	0.19	30	0.09	141	<1	0.05	<1	150	7	<0.01	<2	1	5
J998152		<10	1	0.11	<10	1.04	343	14	0.02	20	110	240	>10.0	<2	2	6
J998153		<10	<1	0.17	30	0.10	185	<1	0.04	<1	150	14	0.02	<2	1	7
J998154		<10	<1	0.25	30	0.10	159	<1	0.05	<1	160	9	<0.01	<2	1	7
J998155		<10	<1	0.19	30	0.10	151	<1	0.05	<1	150	8	<0.01	<2	1	8
J998156		<10	<1	0.15	40	0.09	334	<1	0.05	<1	230	14	0.01	3	1	10
J998157		<10	<1	0.23	30	0.13	297	<1	0.05	<1	150	6	<0.01	<2	1	8
J998158																
J998159		<10	<1	0.21	30	0.10	208	<1	0.07	<1	160	7	0.01	<2	1	9
J998160		<10	<1	0.21	30	0.06	210	<1	0.05	<1	130	10	0.01	<2	1	9
J998161		<10	<1	0.02	<10	12.05	202	<1	0.01	4	170	<2	0.06	<2	<1	44
J998162		<10	<1	0.22	30	0.07	215	2	0.04	<1	110	7	0.01	<2	1	10
J998163		<10	<1	0.34	40	0.07	164	<1	0.05	<1	50	5	<0.01	<2	<1	26
J998164		<10	<1	0.26	40	0.10	226	1	0.05	<1	180	6	0.03	<2	1	30
J998165		<10	<1	1.41	40	1.28	667	1	0.04	1	760	6	0.04	<2	9	54
J998166		<10	<1	2.17	20	2.32	1010	<1	0.03	4	1010	6	0.18	<2	12	105
J998167		<10	<1	0.79	40	0.66	518	1	0.04	1	500	8	0.04	<2	8	51
J998168		<10	<1	0.38	40	0.20	276	1	0.07	<1	210	8	0.02	<2	2	22
J998169		<10	1	0.11	<10	1.10	359	14	0.02	21	110	244	>10.0	<2	2	7
J998170		10	<1	2.95	20	2.90	1140	<1	0.02	4	1330	7	0.13	<2	10	96
J998171		<10	<1	0.36	40	0.14	248	<1	0.07	<1	160	7	0.01	<2	1	24

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Finalized Date: 26- AUG- 2011
Account: F

Project: Arcus Dan Man

CERTIFICATE OF ANALYSIS WH11158271

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
J998136		40	<0.01	<10	<10	2	<10	4	
J998137		30	<0.01	<10	10	18	<10	40	
J998138		30	<0.01	<10	<10	10	<10	13	
J998139		40	<0.01	<10	<10	2	<10	3	
J998140		40	<0.01	<10	<10	3	<10	5	
J998141		30	<0.01	<10	10	7	<10	12	
J998142		30	<0.01	<10	10	17	<10	30	
J998143		<20	<0.01	<10	<10	2	<10	16	
J998144		40	<0.01	<10	<10	2	<10	15	
J998145		30	<0.01	<10	<10	1	<10	2	
J998146		40	<0.01	<10	<10	3	<10	12	
J998147		40	<0.01	<10	<10	3	<10	11	
J998148		40	<0.01	<10	<10	5	<10	11	
J998149		30	0.08	<10	<10	53	<10	38	
J998150		40	0.01	<10	<10	4	<10	12	
J998151		40	0.01	<10	<10	4	<10	9	
J998152		<20	0.02	<10	<10	17	10	>10000	1.355
J998153		40	<0.01	<10	<10	3	<10	120	
J998154		40	0.01	<10	<10	4	<10	17	
J998155		40	0.01	<10	<10	4	<10	17	
J998156		40	<0.01	<10	<10	6	<10	11	
J998157		40	0.01	<10	<10	6	<10	14	
J998158									
J998159		40	0.01	<10	<10	7	<10	13	
J998160		40	<0.01	<10	<10	3	<10	15	
J998161		<20	<0.01	<10	<10	1	<10	18	
J998162		40	0.01	<10	<10	2	<10	14	
J998163		40	<0.01	<10	<10	1	<10	3	
J998164		30	0.02	<10	<10	6	<10	11	
J998165		20	0.15	<10	<10	80	<10	52	
J998166		<20	0.21	<10	<10	129	<10	73	
J998167		30	0.08	<10	<10	65	<10	35	
J998168		40	0.03	<10	<10	14	<10	14	
J998169		<20	0.02	<10	<10	17	10	>10000	1.350
J998170		<20	0.29	<10	<10	147	<10	93	
J998171		40	0.02	<10	<10	8	<10	18	

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Finalized Date: 26- SEP- 2011
Account: F

CERTIFICATE WH11158631

Project: Arcus - Dan Man

P.O. No.:

This report is for 164 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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North Vancouver BC V7H 0A7
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Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ20051		0.12	0.001	0.2	0.62	6	<10	70	<0.5	<2	0.07	<0.5	2	11	44	1.31
ZZ20052		0.20	<0.001	<0.2	2.20	11	<10	270	0.7	<2	0.54	<0.5	10	48	24	2.99
ZZ20053		0.20	0.007	<0.2	2.30	11	<10	230	0.5	<2	0.40	<0.5	9	45	18	2.94
ZZ20054		0.16	0.005	<0.2	2.37	10	<10	270	0.6	<2	0.53	<0.5	10	43	18	3.00
ZZ20055		0.10	0.001	<0.2	1.78	11	<10	170	<0.5	<2	0.24	<0.5	7	28	14	2.39
ZZ20056		0.14	<0.001	<0.2	2.01	8	<10	120	0.5	<2	0.13	<0.5	8	33	15	3.09
ZZ20057		0.10	0.007	<0.2	1.60	8	<10	170	0.6	<2	0.47	<0.5	8	28	12	2.28
ZZ20058		0.20	0.019	0.2	1.79	21	<10	220	1.0	<2	0.85	<0.5	10	71	24	2.75
ZZ20059		0.22	0.009	<0.2	1.44	7	<10	260	0.8	<2	1.00	<0.5	7	31	22	2.22
ZZ20060		0.24	<0.001	<0.2	1.28	7	<10	230	<0.5	<2	0.38	<0.5	6	21	9	2.16
ZZ20061		0.26	0.003	<0.2	1.62	9	<10	200	<0.5	<2	0.51	<0.5	7	33	14	2.50
ZZ20062		0.26	<0.001	<0.2	1.89	9	<10	190	0.5	<2	0.38	<0.5	8	28	13	2.69
ZZ20063		0.26	<0.001	<0.2	1.03	5	<10	140	<0.5	<2	0.18	<0.5	4	16	8	1.88
ZZ20064		0.32	<0.001	<0.2	1.34	5	<10	170	0.5	<2	0.17	<0.5	6	23	10	2.25
ZZ20065		0.28	<0.001	<0.2	1.32	5	<10	80	0.6	<2	0.20	<0.5	5	22	10	2.49
ZZ20066		0.20	0.006	<0.2	0.62	9	<10	70	1.0	<2	0.15	<0.5	8	34	18	2.06
ZZ20067		0.24	0.004	<0.2	0.94	5	<10	150	0.9	<2	1.56	<0.5	6	24	22	1.70
ZZ20068		0.26	0.011	<0.2	1.68	8	<10	130	0.7	<2	0.37	<0.5	10	31	14	2.78
ZZ20069		0.26	0.003	<0.2	1.71	7	<10	190	0.6	<2	0.34	<0.5	9	25	13	2.59
ZZ20070		0.38	0.017	<0.2	1.62	15	<10	230	0.8	<2	0.36	<0.5	7	24	16	2.30
ZZ20141		0.38	0.015	<0.2	1.76	16	<10	170	<0.5	<2	0.28	<0.5	9	25	10	2.57
ZZ20142		0.26	0.035	<0.2	1.65	20	<10	160	0.5	<2	0.27	<0.5	7	23	10	2.34
ZZ20301		0.22	0.020	0.3	1.89	21	<10	220	0.6	<2	0.56	<0.5	8	29	17	2.86
ZZ20302		0.14	0.018	0.4	1.67	15	<10	290	0.6	2	0.83	<0.5	8	24	16	2.65
ZZ20303		0.24	0.020	<0.2	1.91	17	<10	160	0.7	<2	0.46	<0.5	12	22	20	2.75
ZZ20304		0.22	0.010	0.2	2.14	23	<10	130	<0.5	<2	0.21	<0.5	6	27	21	3.33
ZZ20305		0.26	0.027	<0.2	1.57	34	<10	110	0.7	2	0.21	<0.5	9	21	19	2.72
ZZ20306		0.26	0.018	<0.2	1.54	21	<10	120	0.7	<2	0.24	<0.5	7	19	11	2.83
ZZ20307		0.18	0.009	<0.2	1.64	11	<10	80	<0.5	<2	0.14	<0.5	6	25	10	2.53
ZZ20308		0.36	0.004	<0.2	1.52	12	<10	90	0.5	<2	0.17	<0.5	8	22	9	2.48
ZZ20309		0.28	0.005	<0.2	1.37	9	<10	90	<0.5	<2	0.17	<0.5	5	21	9	2.01
ZZ20310		0.14	0.005	<0.2	1.28	7	<10	80	<0.5	<2	0.17	<0.5	4	20	8	1.82
ZZ20331		0.44	0.015	<0.2	1.49	10	<10	190	0.7	<2	0.46	<0.5	9	31	17	2.71
ZZ20332		0.28	0.022	<0.2	1.31	10	<10	120	<0.5	<2	0.25	<0.5	5	24	10	2.09
ZZ20333		0.30	0.013	<0.2	1.46	7	<10	210	<0.5	<2	0.89	<0.5	11	31	29	2.84
ZZ20334		0.22	0.014	<0.2	1.53	13	<10	160	<0.5	<2	0.32	<0.5	11	27	12	2.53
ZZ20335		0.24	0.003	<0.2	1.27	6	<10	110	<0.5	<2	0.37	<0.5	6	26	12	2.07
ZZ20336		0.22	<0.001	<0.2	1.51	2	<10	130	<0.5	<2	0.27	<0.5	6	38	12	2.11
ZZ20337		0.34	0.003	<0.2	1.86	7	<10	160	<0.5	<2	0.23	<0.5	5	27	12	2.41
ZZ20338		0.50	0.005	<0.2	1.82	6	<10	140	0.5	<2	0.28	<0.5	8	28	10	2.76

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11158631

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20051		10	<1	0.03	10	0.05	58	<1	0.02	4	150	7	0.03	<2	1	7
ZZ20052		10	<1	0.07	20	0.73	418	<1	0.02	24	550	8	0.02	<2	8	31
ZZ20053		10	<1	0.06	10	0.68	406	<1	0.02	22	410	8	0.02	<2	5	29
ZZ20054		10	<1	0.08	10	0.69	472	1	0.03	20	610	10	0.04	<2	5	33
ZZ20055		10	<1	0.06	10	0.39	379	1	0.02	16	380	9	0.02	<2	3	23
ZZ20056		10	<1	0.12	10	0.40	547	1	0.02	16	290	9	0.01	<2	3	12
ZZ20057		<10	<1	0.11	60	0.56	549	<1	0.02	15	530	14	0.03	<2	4	30
ZZ20058		<10	<1	0.17	90	0.88	635	<1	0.02	44	750	34	0.03	<2	5	36
ZZ20059		<10	<1	0.14	160	0.46	505	1	0.03	15	740	9	0.04	<2	4	54
ZZ20060		<10	<1	0.17	10	0.39	327	<1	0.02	10	240	8	0.01	<2	2	26
ZZ20061		<10	<1	0.09	30	0.57	286	<1	0.02	18	310	8	0.01	<2	4	31
ZZ20062		<10	<1	0.16	30	0.47	375	<1	0.02	13	310	18	0.01	<2	4	26
ZZ20063		<10	<1	0.08	20	0.30	267	2	0.02	9	130	15	0.01	<2	2	14
ZZ20064		<10	<1	0.06	10	0.31	313	2	0.01	13	130	14	0.01	<2	2	19
ZZ20065		<10	<1	0.19	10	0.32	279	2	0.01	11	170	14	0.01	<2	2	16
ZZ20066		<10	<1	0.08	20	0.16	272	3	0.01	20	150	21	0.01	<2	3	15
ZZ20067		<10	<1	0.07	40	0.38	364	1	0.03	17	500	13	0.06	2	3	72
ZZ20068		<10	<1	0.11	30	0.63	388	<1	0.03	16	670	14	0.02	<2	4	26
ZZ20069		<10	<1	0.07	40	0.45	572	<1	0.02	13	510	13	0.02	<2	4	26
ZZ20070		<10	<1	0.07	50	0.42	300	<1	0.02	13	420	29	0.02	<2	5	28
ZZ20141		<10	<1	0.07	20	0.43	475	<1	0.02	11	340	12	0.01	2	3	21
ZZ20142		<10	<1	0.09	20	0.38	336	<1	0.01	12	360	11	0.01	<2	3	20
ZZ20301		10	<1	0.13	30	0.63	399	2	0.02	14	440	41	0.02	<2	3	31
ZZ20302		<10	<1	0.16	60	0.51	611	1	0.03	12	420	44	0.03	<2	4	47
ZZ20303		<10	<1	0.08	30	0.64	969	<1	0.02	11	610	16	0.04	<2	4	26
ZZ20304		10	<1	0.06	10	0.36	280	1	0.02	12	250	65	0.02	<2	3	15
ZZ20305		<10	<1	0.11	50	0.44	667	<1	0.02	10	460	37	0.01	<2	3	18
ZZ20306		<10	<1	0.12	50	0.40	489	<1	0.02	11	380	36	0.01	<2	3	18
ZZ20307		10	<1	0.08	40	0.40	265	<1	0.01	9	450	20	0.03	<2	2	12
ZZ20308		10	<1	0.10	40	0.41	617	<1	0.01	9	500	20	0.02	<2	2	14
ZZ20309		10	<1	0.09	30	0.35	251	<1	0.01	8	450	15	0.03	<2	2	15
ZZ20310		<10	<1	0.08	30	0.32	149	<1	0.01	6	430	14	0.03	<2	2	15
ZZ20331		10	<1	0.07	40	0.48	607	<1	0.02	17	620	16	0.03	<2	4	31
ZZ20332		10	<1	0.06	20	0.39	194	<1	0.01	11	610	13	0.03	<2	2	20
ZZ20333		10	<1	0.09	10	0.67	773	<1	0.04	23	900	8	0.03	<2	4	46
ZZ20334		10	<1	0.06	20	0.50	674	<1	0.02	13	630	13	0.03	<2	3	23
ZZ20335		10	<1	0.06	10	0.43	212	<1	0.02	13	650	9	0.04	<2	3	25
ZZ20336		10	<1	0.11	40	0.60	232	<1	0.01	17	440	10	0.01	<2	3	19
ZZ20337		10	<1	0.08	60	0.47	203	<1	0.01	13	330	8	0.01	<2	3	19
ZZ20338		10	<1	0.09	40	0.49	471	<1	0.01	12	510	11	0.01	<2	3	20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 26- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ20051		<20	0.08	<10	<10	44	<10	30
ZZ20052		<20	0.10	<10	<10	67	<10	56
ZZ20053		<20	0.10	<10	<10	67	<10	55
ZZ20054		<20	0.09	<10	<10	67	<10	53
ZZ20055		<20	0.08	<10	<10	57	<10	45
ZZ20056		<20	0.09	<10	<10	76	<10	59
ZZ20057		<20	0.07	<10	<10	41	<10	62
ZZ20058		20	0.09	<10	<10	50	<10	56
ZZ20059		20	0.06	<10	<10	36	<10	40
ZZ20060		<20	0.09	<10	<10	45	<10	39
ZZ20061		<20	0.10	<10	<10	52	<10	45
ZZ20062		<20	0.10	<10	<10	53	<10	47
ZZ20063		<20	0.06	<10	<10	40	<10	28
ZZ20064		20	0.05	<10	<10	43	<10	32
ZZ20065		20	0.05	<10	<10	43	<10	41
ZZ20066		30	0.02	<10	<10	26	<10	35
ZZ20067		20	0.04	<10	<10	29	<10	32
ZZ20068		<20	0.10	<10	<10	55	<10	61
ZZ20069		<20	0.07	<10	<10	46	<10	50
ZZ20070		20	0.07	<10	<10	43	<10	52
ZZ20141		<20	0.09	<10	<10	54	<10	51
ZZ20142		<20	0.08	<10	<10	48	<10	48
ZZ20301		<20	0.09	<10	<10	52	<10	60
ZZ20302		20	0.08	<10	<10	47	<10	50
ZZ20303		<20	0.04	<10	<10	51	<10	58
ZZ20304		<20	0.08	<10	<10	76	<10	51
ZZ20305		20	0.07	<10	<10	42	<10	59
ZZ20306		20	0.07	<10	<10	39	<10	56
ZZ20307		<20	0.07	<10	<10	50	<10	52
ZZ20308		<20	0.07	<10	<10	47	<10	53
ZZ20309		<20	0.07	<10	<10	40	<10	49
ZZ20310		<20	0.06	<10	<10	34	<10	54
ZZ20331		20	0.08	<10	<10	51	<10	63
ZZ20332		<20	0.06	<10	<10	44	<10	48
ZZ20333		<20	0.11	<10	<10	67	<10	76
ZZ20334		<20	0.07	<10	<10	56	<10	63
ZZ20335		<20	0.08	<10	<10	46	<10	54
ZZ20336		<20	0.09	<10	<10	45	<10	45
ZZ20337		<20	0.08	<10	<10	49	<10	57
ZZ20338		<20	0.09	<10	<10	54	<10	58

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North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ20339		0.48	0.001	<0.2	1.76	7	<10	150	0.5	<2	0.27	<0.5	7	29	10	2.65
ZZ20340		0.40	0.004	<0.2	1.72	7	<10	130	<0.5	<2	0.22	<0.5	8	29	11	2.68
ZZ20421		0.26	0.014	<0.2	1.32	11	<10	190	1.2	<2	0.53	<0.5	7	24	14	2.57
ZZ20422		0.22	0.009	<0.2	1.03	9	<10	130	0.6	<2	0.21	<0.5	16	21	7	2.42
ZZ20423		0.28	0.008	<0.2	1.77	8	<10	230	1.3	<2	0.41	<0.5	9	39	15	2.89
ZZ20424		0.20	0.004	<0.2	1.51	7	<10	130	<0.5	<2	0.24	<0.5	7	29	10	2.17
ZZ20425		0.16	0.010	<0.2	1.64	10	<10	200	0.7	<2	0.35	<0.5	12	34	18	2.66
ZZ20426		0.20	0.003	<0.2	1.69	5	<10	90	<0.5	<2	0.20	<0.5	7	37	8	2.54
ZZ20427		0.16	<0.001	<0.2	1.34	5	<10	80	<0.5	<2	0.19	<0.5	6	25	7	2.30
ZZ20428		0.20	0.003	<0.2	1.66	5	<10	150	0.7	<2	0.33	<0.5	13	37	11	2.64
ZZ20429		0.16	0.004	<0.2	1.53	9	<10	120	0.5	<2	0.24	<0.5	9	44	12	2.37
ZZ20430		0.16	0.007	<0.2	1.65	10	<10	120	0.5	<2	0.20	<0.5	8	33	12	2.39
ZZ20441		0.12	0.001	<0.2	0.79	3	<10	60	<0.5	<2	0.08	<0.5	3	13	6	1.44
ZZ20442		0.18	0.004	<0.2	1.63	9	<10	130	0.5	<2	0.23	<0.5	19	39	10	2.95
ZZ20443		0.20	<0.001	<0.2	1.30	10	<10	90	<0.5	<2	0.22	<0.5	7	24	8	2.48
ZZ20444		0.14	0.001	<0.2	1.56	8	<10	120	0.5	<2	0.23	<0.5	15	32	10	2.77
ZZ20445		0.24	0.006	0.2	1.50	6	<10	100	<0.5	<2	0.21	<0.5	8	36	10	2.13
ZZ20446		0.16	0.004	<0.2	1.43	9	<10	90	<0.5	<2	0.17	<0.5	7	25	8	2.11
ZZ20447		0.32	0.013	<0.2	1.28	16	<10	80	0.6	<2	0.31	<0.5	7	39	12	2.27
ZZ20448		0.20	0.020	0.2	1.72	19	<10	180	0.7	<2	0.49	<0.5	7	33	22	2.61
ZZ20449		0.26	0.024	<0.2	1.32	35	<10	80	<0.5	<2	0.19	<0.5	6	28	8	2.46
ZZ20450		0.18	0.003	0.3	2.59	7	<10	320	0.8	<2	0.78	<0.5	13	34	25	3.37
ZZ21451		0.20	0.058	<0.2	1.87	37	<10	210	0.8	<2	0.33	<0.5	9	29	12	2.77
ZZ21452		0.30	0.444	<0.2	1.75	96	<10	190	0.7	<2	0.29	<0.5	7	27	11	2.80
ZZ21453		0.24	0.147	<0.2	1.59	82	<10	160	0.5	2	0.29	<0.5	6	22	11	2.69
ZZ21454		0.12	0.181	<0.2	1.64	93	<10	160	0.6	2	0.26	<0.5	9	23	11	2.82
ZZ21455		0.16	0.113	<0.2	1.50	86	<10	160	0.5	<2	0.21	<0.5	8	22	9	2.59
ZZ21456		0.22	0.054	<0.2	1.76	55	<10	220	0.9	<2	0.69	<0.5	13	31	19	3.47
ZZ21457		0.14	0.026	<0.2	1.65	62	<10	200	0.7	<2	1.04	<0.5	10	33	14	2.62
ZZ21458		0.14	0.001	<0.2	1.32	10	<10	120	0.8	<2	0.97	<0.5	8	26	11	2.44
ZZ21460		0.16	0.046	<0.2	1.60	28	<10	170	1.4	<2	0.68	<0.5	9	31	14	2.89
ZZ21472		0.06	0.071	0.3	2.42	18	<10	230	1.3	<2	0.60	<0.5	9	35	22	2.83
ZZ21473		0.22	0.099	<0.2	1.92	15	<10	160	1.1	<2	0.29	<0.5	9	28	13	2.78
ZZ21474		0.14	0.041	<0.2	2.33	15	<10	130	0.7	<2	0.19	<0.5	9	28	10	2.90
ZZ21475		0.18	0.062	<0.2	1.42	18	<10	150	1.1	<2	0.87	<0.5	8	26	20	2.47
ZZ21476		0.12	0.035	<0.2	1.55	13	<10	160	0.9	<2	0.84	<0.5	8	33	18	2.52
ZZ21477		0.14	0.012	<0.2	1.59	16	<10	180	1.1	<2	0.92	<0.5	11	40	13	2.56
ZZ21478		0.10	0.004	<0.2	1.67	7	<10	140	0.8	<2	1.04	<0.5	10	46	13	2.52
ZZ21479		0.08	NSS	0.2	1.24	34	<10	220	0.9	<2	1.49	<0.5	8	29	22	2.14
ZZ21480		0.14	0.068	<0.2	1.87	75	<10	180	0.6	<2	0.39	<0.5	10	62	11	3.02

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 26- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20339		10	<1	0.08	30	0.48	272	<1	0.01	14	390	8	<0.01	<2	3	20
ZZ20340		10	<1	0.06	20	0.43	327	<1	0.01	12	430	11	0.01	<2	3	18
ZZ20421		10	<1	0.11	60	0.32	763	1	0.01	14	500	23	0.02	<2	4	23
ZZ20422		<10	<1	0.16	40	0.24	2930	1	0.01	8	960	13	0.04	<2	3	19
ZZ20423		10	<1	0.20	90	0.63	800	<1	0.01	23	830	22	0.01	<2	6	26
ZZ20424		10	<1	0.07	20	0.44	257	<1	0.01	15	520	23	0.02	<2	3	19
ZZ20425		10	<1	0.12	40	0.50	1625	<1	0.01	20	540	24	0.02	<2	4	24
ZZ20426		10	<1	0.09	30	0.65	300	<1	0.01	21	280	11	0.01	<2	3	16
ZZ20427		10	<1	0.09	20	0.42	499	<1	0.01	12	360	19	0.02	<2	2	14
ZZ20428		10	<1	0.13	50	0.61	1095	<1	0.01	21	520	17	0.03	<2	4	21
ZZ20429		10	<1	0.08	20	0.58	543	<1	0.01	23	610	24	0.03	<2	3	19
ZZ20430		10	<1	0.09	30	0.49	223	<1	0.01	15	500	23	0.03	<2	3	17
ZZ20441		10	<1	0.05	10	0.15	264	<1	0.01	4	270	8	0.02	<2	1	8
ZZ20442		10	<1	0.13	40	0.67	1365	<1	0.01	23	590	22	0.03	<2	4	17
ZZ20443		10	<1	0.10	20	0.44	485	<1	0.01	10	510	19	0.02	<2	2	17
ZZ20444		10	<1	0.11	30	0.52	938	<1	0.01	16	560	19	0.03	<2	3	18
ZZ20445		10	<1	0.09	30	0.51	354	<1	0.01	18	520	21	0.02	<2	3	16
ZZ20446		10	<1	0.07	30	0.39	314	<1	0.01	9	490	23	0.03	<2	2	15
ZZ20447		10	<1	0.17	40	0.57	291	<1	0.01	20	780	44	0.01	<2	3	18
ZZ20448		10	<1	0.12	70	0.56	535	<1	0.02	11	670	57	0.03	<2	4	27
ZZ20449		10	<1	0.08	10	0.50	201	<1	0.01	12	360	11	0.02	2	3	14
ZZ20450		10	<1	0.17	50	0.51	1250	1	0.03	18	530	19	0.02	<2	5	48
ZZ21451		10	<1	0.09	40	0.47	489	<1	0.01	12	370	12	0.01	2	5	26
ZZ21452		10	<1	0.10	40	0.48	337	<1	0.01	12	320	13	0.01	3	4	23
ZZ21453		10	<1	0.15	30	0.44	254	<1	<0.01	11	360	15	<0.01	3	3	25
ZZ21454		10	<1	0.12	30	0.37	378	<1	0.01	11	330	17	0.01	3	3	23
ZZ21455		<10	<1	0.14	20	0.38	477	<1	<0.01	11	310	12	<0.01	2	2	18
ZZ21456		10	<1	0.20	60	0.76	779	<1	0.01	17	680	16	0.02	2	8	36
ZZ21457		10	<1	0.15	50	0.54	712	<1	0.02	20	590	15	0.03	2	5	43
ZZ21458		<10	1	0.18	70	0.46	639	<1	0.02	12	580	12	0.02	<2	4	34
ZZ21460		<10	<1	0.15	80	0.44	562	<1	0.02	18	590	15	0.01	<2	6	30
ZZ21472		10	<1	0.13	90	0.51	535	<1	0.02	19	710	23	0.02	<2	7	42
ZZ21473		10	<1	0.15	60	0.47	656	<1	0.02	15	550	36	<0.01	<2	5	23
ZZ21474		10	<1	0.08	30	0.43	247	<1	0.02	13	220	17	<0.01	<2	3	19
ZZ21475		<10	<1	0.13	70	0.40	555	<1	0.02	15	670	16	<0.01	<2	5	34
ZZ21476		<10	1	0.11	70	0.43	343	<1	0.02	16	530	12	0.01	<2	4	32
ZZ21477		<10	1	0.12	70	0.46	960	<1	0.02	15	730	13	0.02	<2	5	34
ZZ21478		<10	<1	0.24	60	0.62	701	<1	0.02	20	610	13	0.03	<2	5	36
ZZ21479		<10	1	0.09	50	0.40	728	<1	0.03	16	810	10	0.08	<2	4	57
ZZ21480		10	1	0.20	20	0.67	1005	<1	0.02	34	460	13	<0.01	<2	4	29

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 26- SEP- 2011
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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ20339		<20	0.09	<10	<10	54	<10	53
ZZ20340		<20	0.09	<10	<10	60	<10	51
ZZ20421		20	0.04	<10	<10	36	<10	51
ZZ20422		<20	0.04	<10	<10	33	<10	44
ZZ20423		30	0.08	<10	<10	46	<10	70
ZZ20424		<20	0.07	<10	<10	46	<10	60
ZZ20425		<20	0.08	<10	<10	55	<10	66
ZZ20426		<20	0.09	<10	<10	50	<10	50
ZZ20427		<20	0.08	<10	<10	51	<10	51
ZZ20428		<20	0.08	<10	<10	51	<10	61
ZZ20429		<20	0.07	<10	<10	55	<10	52
ZZ20430		<20	0.06	<10	<10	49	<10	56
ZZ20441		<20	0.05	<10	<10	39	<10	24
ZZ20442		<20	0.08	<10	<10	67	<10	58
ZZ20443		<20	0.08	<10	<10	70	<10	51
ZZ20444		<20	0.07	<10	<10	56	<10	64
ZZ20445		<20	0.07	<10	<10	42	<10	53
ZZ20446		<20	0.06	<10	<10	45	<10	50
ZZ20447		20	0.09	<10	<10	38	<10	49
ZZ20448		<20	0.07	<10	<10	43	<10	69
ZZ20449		<20	0.09	<10	<10	58	<10	40
ZZ20450		<20	0.10	<10	<10	63	<10	76
ZZ21451		20	0.08	<10	<10	53	<10	55
ZZ21452		20	0.08	<10	<10	50	<10	54
ZZ21453		<20	0.08	<10	<10	48	<10	51
ZZ21454		<20	0.07	<10	<10	52	<10	46
ZZ21455		<20	0.07	<10	<10	41	<10	51
ZZ21456		20	0.08	<10	<10	59	<10	68
ZZ21457		<20	0.08	<10	<10	46	<10	71
ZZ21458		<20	0.07	<10	<10	37	<10	65
ZZ21460		20	0.06	<10	<10	45	<10	76
ZZ21472		<20	0.06	<10	<10	50	<10	81
ZZ21473		20	0.07	<10	<10	48	<10	72
ZZ21474		<20	0.07	<10	<10	58	<10	62
ZZ21475		20	0.06	<10	<10	40	<10	63
ZZ21476		<20	0.06	<10	<10	45	<10	61
ZZ21477		<20	0.06	<10	<10	45	<10	71
ZZ21478		20	0.08	<10	<10	43	<10	80
ZZ21479		<20	0.05	<10	<10	40	<10	61
ZZ21480		<20	0.09	<10	<10	56	<10	62

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 26- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ21291		0.22	0.004	<0.2	1.61	9	<10	200	0.5	<2	0.58	<0.5	11	32	35	2.87
ZZ21292		0.20	0.002	<0.2	1.62	6	<10	160	<0.5	<2	0.55	<0.5	10	28	15	2.54
ZZ21293		0.22	0.002	<0.2	1.72	9	<10	190	<0.5	<2	1.20	<0.5	11	34	35	2.92
ZZ21294		0.18	0.007	0.2	1.21	7	<10	190	0.8	<2	0.70	<0.5	8	24	23	2.09
ZZ21295		0.12	0.019	0.2	0.89	3	<10	340	2.2	<2	2.09	<0.5	5	20	39	1.46
ZZ21296		0.18	0.006	<0.2	1.87	7	<10	210	0.9	<2	0.17	<0.5	8	31	15	2.71
ZZ21297		0.18	<0.001	<0.2	1.30	9	<10	120	<0.5	<2	0.18	<0.5	6	28	12	3.01
ZZ21298		0.20	0.001	<0.2	1.90	8	<10	230	<0.5	<2	0.52	<0.5	12	37	41	3.10
ZZ21299		0.14	0.001	0.2	1.77	7	<10	250	<0.5	<2	0.68	<0.5	10	41	31	3.04
ZZ21300		0.24	<0.001	<0.2	2.06	6	<10	290	<0.5	<2	0.44	<0.5	13	42	66	3.40
CC144743		0.20	0.061	0.5	2.18	41	<10	400	0.8	<2	0.33	<0.5	7	24	21	3.17
CC144744		0.16	<0.001	<0.2	1.39	8	<10	280	<0.5	<2	0.14	<0.5	7	16	8	2.37
CC144745		0.10	<0.001	<0.2	0.85	5	<10	220	<0.5	<2	0.21	<0.5	5	13	9	1.91
CC144746		0.12	0.020	<0.2	1.93	28	<10	90	<0.5	<2	0.29	<0.5	6	23	15	2.69
CC144747		0.08	0.010	<0.2	1.39	11	<10	90	<0.5	<2	0.17	<0.5	5	19	8	1.91
CC144748		0.16	0.020	<0.2	1.54	15	<10	130	0.5	<2	0.26	<0.5	7	23	12	2.39
CC144749		0.16	0.007	<0.2	1.57	16	<10	90	<0.5	<2	0.18	<0.5	15	21	9	2.43
CC144750		0.12	0.014	<0.2	1.79	16	<10	120	0.6	<2	0.22	<0.5	7	25	14	2.25
CC144781		Not Recvd														
CC144782		Not Recvd														
CC144783		Not Recvd														
CC144784		Not Recvd														
CC144785		Not Recvd														
CC144861		Not Recvd														
CC144862		Not Recvd														
CC144863		Not Recvd														
CC144864		Not Recvd														
CC144865		Not Recvd														
CC144981		0.10	0.009	<0.2	1.34	10	<10	80	<0.5	<2	0.18	<0.5	5	20	10	1.87
CC144982		0.08	0.010	<0.2	1.47	14	<10	90	<0.5	<2	0.19	<0.5	5	22	11	2.19
CC144983		0.18	0.012	<0.2	1.40	11	<10	90	<0.5	<2	0.22	<0.5	11	29	13	2.40
CC144984		0.12	0.039	<0.2	1.41	18	<10	110	0.5	<2	0.22	<0.5	11	26	11	2.32
CC144985		0.22	0.018	<0.2	1.68	11	<10	170	0.5	<2	0.26	<0.5	7	25	13	2.48
CC144986		0.26	0.018	<0.2	1.50	10	<10	150	0.5	<2	0.34	<0.5	6	22	12	2.25
CC144987		0.08	0.015	<0.2	1.51	10	<10	130	<0.5	<2	0.31	<0.5	5	22	10	2.05
CC144988		0.22	0.010	<0.2	1.68	9	<10	150	0.7	<2	0.21	<0.5	10	35	13	2.70
CC144989		0.30	0.018	<0.2	1.64	13	<10	130	<0.5	<2	0.29	<0.5	9	25	10	2.61
CC144990		0.20	0.019	<0.2	1.22	15	<10	120	0.5	<2	0.25	<0.5	6	23	11	2.20
CC144991		0.20	0.018	<0.2	1.68	13	<10	150	0.5	<2	0.31	<0.5	6	29	13	2.34
CC144992		0.26	0.006	<0.2	1.57	9	<10	120	0.5	<2	0.28	<0.5	10	23	10	2.43

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North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ21291		<10	<1	0.07	10	0.59	282	<1	0.04	23	830	6	<0.01	<2	5	36
ZZ21292		<10	1	0.05	10	0.49	388	<1	0.03	15	730	7	0.01	<2	4	40
ZZ21293		<10	<1	0.08	10	0.74	463	<1	0.05	25	820	6	<0.01	<2	5	54
ZZ21294		<10	1	0.05	40	0.37	591	<1	0.02	14	550	15	0.02	<2	4	45
ZZ21295		<10	<1	0.04	230	0.22	315	1	0.02	14	650	10	0.07	<2	3	108
ZZ21296		<10	<1	0.05	30	0.43	224	1	0.01	16	170	16	<0.01	<2	4	19
ZZ21297		10	<1	0.08	10	0.36	289	1	0.01	10	520	11	<0.01	<2	3	16
ZZ21298		10	1	0.20	10	0.92	350	<1	0.02	21	540	6	<0.01	<2	5	32
ZZ21299		10	<1	0.22	10	0.89	312	<1	0.03	20	650	5	<0.01	<2	5	40
ZZ21300		10	1	0.12	10	0.85	285	1	0.02	22	480	5	0.01	<2	5	41
CC144743		10	1	0.10	70	0.49	365	1	0.02	12	320	82	<0.01	5	4	29
CC144744		10	<1	0.07	10	0.26	1540	1	0.02	8	270	15	<0.01	<2	2	14
CC144745		10	<1	0.04	10	0.12	1035	<1	0.02	7	310	9	<0.01	<2	1	16
CC144746		10	<1	0.09	20	0.55	330	<1	0.02	10	470	16	<0.01	<2	4	19
CC144747		<10	<1	0.07	20	0.27	338	<1	0.02	8	540	13	0.01	<2	2	17
CC144748		10	<1	0.11	50	0.36	793	<1	0.01	11	520	22	<0.01	<2	3	21
CC144749		10	<1	0.08	40	0.35	1720	<1	0.01	10	360	21	<0.01	<2	3	17
CC144750		10	<1	0.07	30	0.33	361	<1	0.01	12	550	16	0.01	<2	3	20
CC144781																
CC144782																
CC144783																
CC144784																
CC144785																
CC144861																
CC144862																
CC144863																
CC144864																
CC144865																
CC144981		<10	<1	0.06	20	0.27	247	<1	0.01	8	530	12	0.01	<2	2	17
CC144982		<10	<1	0.07	30	0.32	189	<1	0.01	8	560	14	0.02	<2	2	18
CC144983		10	<1	0.12	30	0.46	642	<1	0.01	18	560	24	0.02	<2	2	17
CC144984		10	<1	0.11	40	0.43	677	<1	0.01	16	540	18	0.02	<2	2	19
CC144985		10	<1	0.08	30	0.45	268	<1	0.01	14	580	13	0.02	2	3	21
CC144986		<10	<1	0.09	40	0.41	329	<1	0.01	12	550	12	0.01	<2	3	22
CC144987		<10	<1	0.09	40	0.40	195	<1	0.01	12	590	10	0.02	2	3	22
CC144988		10	<1	0.08	20	0.40	568	<1	0.01	18	540	12	0.01	<2	3	18
CC144989		10	<1	0.07	20	0.44	428	<1	0.01	13	470	11	0.01	<2	3	21
CC144990		<10	<1	0.09	30	0.32	231	<1	0.01	12	570	8	0.01	2	3	18
CC144991		10	<1	0.08	30	0.46	218	<1	0.01	16	540	10	0.01	<2	3	23
CC144992		10	<1	0.13	40	0.46	584	<1	0.01	12	520	10	0.01	<2	3	21

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North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ21291		<20	0.12	<10	<10	75	<10	64
ZZ21292		<20	0.08	<10	<10	66	<10	59
ZZ21293		<20	0.12	<10	<10	71	<10	68
ZZ21294		30	0.06	<10	<10	42	<10	54
ZZ21295		30	0.03	<10	<10	24	<10	22
ZZ21296		40	0.07	<10	<10	52	<10	43
ZZ21297		<20	0.09	<10	<10	80	<10	46
ZZ21298		<20	0.13	<10	<10	75	<10	57
ZZ21299		<20	0.12	<10	<10	73	<10	65
ZZ21300		<20	0.13	<10	<10	76	<10	56
CC144743		20	0.07	<10	<10	54	<10	63
CC144744		<20	0.06	<10	<10	46	<10	72
CC144745		<20	0.06	<10	<10	47	<10	65
CC144746		<20	0.07	<10	<10	57	<10	60
CC144747		<20	0.06	<10	<10	39	<10	47
CC144748		<20	0.07	<10	<10	44	<10	65
CC144749		<20	0.07	<10	<10	48	<10	57
CC144750		<20	0.06	<10	<10	47	<10	59
CC144781								
CC144782								
CC144783								
CC144784								
CC144785								
CC144861								
CC144862								
CC144863								
CC144864								
CC144865								
CC144981		<20	0.05	<10	<10	30	<10	42
CC144982		<20	0.05	<10	<10	41	<10	52
CC144983		<20	0.08	<10	<10	55	<10	56
CC144984		<20	0.06	<10	<10	44	<10	56
CC144985		<20	0.07	<10	<10	45	<10	59
CC144986		<20	0.07	<10	<10	40	<10	51
CC144987		<20	0.07	<10	<10	35	<10	50
CC144988		<20	0.06	<10	<10	53	<10	45
CC144989		<20	0.08	<10	<10	55	<10	53
CC144990		<20	0.06	<10	<10	40	<10	40
CC144991		<20	0.08	<10	<10	45	<10	52
CC144992		<20	0.08	<10	<10	48	<10	47

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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144993		0.26	0.005	<0.2	1.31	7	<10	140	0.5	<2	0.35	<0.5	6	27	12	2.12
CC144994		0.20	0.007	<0.2	1.65	9	<10	150	0.6	<2	0.30	<0.5	7	28	13	2.44
CC144995		0.24	0.007	<0.2	1.97	8	<10	160	0.5	<2	0.27	<0.5	7	27	12	2.62
CC144996		0.24	0.011	0.2	1.64	14	<10	210	0.9	<2	0.44	<0.5	8	24	17	2.56
CC144997		0.18	0.005	<0.2	1.49	10	<10	200	<0.5	<2	0.87	<0.5	10	29	28	2.72
CC144998		0.24	0.015	<0.2	1.56	12	<10	140	<0.5	<2	0.34	<0.5	8	28	15	2.52
CC144999		0.22	0.020	0.2	1.41	13	<10	150	0.5	<2	0.35	<0.5	9	28	12	2.48
CC145000		0.24	<0.001	<0.2	2.12	9	<10	140	<0.5	<2	0.28	<0.5	9	35	14	3.10
ZZ20531		0.20	0.003	<0.2	1.80	14	<10	290	0.7	<2	1.68	<0.5	11	44	29	2.96
ZZ20532		0.36	<0.001	<0.2	1.62	9	<10	150	0.5	<2	0.48	<0.5	7	24	14	2.67
ZZ20533		0.36	0.003	<0.2	1.80	10	<10	260	0.6	<2	1.01	<0.5	9	35	26	2.91
ZZ20534		0.32	0.002	<0.2	1.97	14	<10	340	0.7	<2	1.21	<0.5	11	42	32	3.01
ZZ20535		0.16	0.001	<0.2	1.72	14	<10	260	0.6	<2	1.17	<0.5	9	35	27	2.82
ZZ20536		0.30	0.004	<0.2	1.77	20	<10	240	0.5	<2	0.60	<0.5	10	32	17	2.84
ZZ20537		0.28	<0.001	<0.2	1.86	10	<10	340	0.8	<2	0.77	<0.5	10	42	22	3.22
ZZ20538		0.36	<0.001	<0.2	1.99	14	<10	270	0.8	<2	1.08	<0.5	13	41	36	3.54
ZZ20539		0.26	0.005	<0.2	1.26	9	<10	210	<0.5	<2	0.89	<0.5	9	28	23	2.71
ZZ20540		0.24	<0.001	<0.2	1.93	4	<10	420	1.1	<2	0.53	<0.5	9	36	12	3.34
ZZ20555		0.22	<0.001	<0.2	1.70	4	<10	130	0.5	2	0.30	<0.5	9	54	8	3.13
ZZ20556		0.22	<0.001	<0.2	1.34	7	<10	170	0.8	<2	0.59	<0.5	8	22	17	2.61
ZZ20557		0.28	0.005	<0.2	1.23	7	<10	200	0.8	<2	0.56	<0.5	6	20	13	2.35
ZZ20558		0.12	0.017	<0.2	1.61	26	<10	170	0.5	<2	0.51	<0.5	12	30	12	2.69
ZZ20559		0.16	0.025	<0.2	1.65	28	<10	230	0.6	<2	0.50	<0.5	14	31	13	2.74
ZZ20560		0.16	0.001	<0.2	1.58	12	<10	210	0.5	<2	0.92	<0.5	9	29	20	2.53
ZZ20561		0.30	<0.001	<0.2	1.89	13	<10	220	0.6	<2	0.70	<0.5	12	39	19	3.04
ZZ20562		0.36	0.001	<0.2	1.80	10	<10	240	0.5	<2	0.62	<0.5	9	31	20	2.81
ZZ20563		0.18	0.004	<0.2	1.71	10	<10	280	0.7	<2	0.87	<0.5	8	33	30	2.45
ZZ20564		0.30	<0.001	<0.2	1.74	13	<10	200	<0.5	<2	0.40	<0.5	9	33	15	2.67
ZZ20565		0.42	0.006	<0.2	1.63	15	<10	250	0.6	<2	0.83	<0.5	9	35	29	2.56
ZZ20566		0.40	0.004	<0.2	1.52	12	<10	150	<0.5	<2	0.65	<0.5	8	32	14	2.50
ZZ20567		0.26	0.004	<0.2	1.53	12	<10	240	0.6	<2	0.86	<0.5	8	28	22	2.36
ZZ20568		0.38	0.007	<0.2	1.31	10	<10	150	0.8	<2	0.51	<0.5	6	22	16	2.30
ZZ20569		0.24	0.009	<0.2	1.12	9	<10	170	1.3	<2	0.60	<0.5	4	17	19	1.82
ZZ20570		0.40	0.003	<0.2	1.17	7	<10	180	1.1	<2	0.59	<0.5	7	25	24	2.17
CC144786		0.28	0.013	<0.2	1.94	44	<10	180	<0.5	<2	0.55	<0.5	10	39	14	2.98
CC144787		0.20	0.005	<0.2	1.69	16	<10	170	<0.5	<2	0.42	<0.5	8	34	13	2.48
CC144788		0.24	0.017	<0.2	2.04	25	<10	220	0.5	<2	0.39	<0.5	12	42	16	3.23
CC144789		0.22	0.018	<0.2	2.06	20	<10	110	0.6	<2	0.13	<0.5	7	29	10	3.33
CC144790		0.20	0.004	<0.2	1.42	17	<10	70	<0.5	<2	0.11	<0.5	5	23	9	2.72
CC144866		0.16	0.006	<0.2	1.00	8	<10	60	<0.5	<2	0.12	<0.5	4	21	11	1.64

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CERTIFICATE OF ANALYSIS WH11158631

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144993		<10	<1	0.13	40	0.49	228	<1	0.01	14	510	9	<0.01	<2	4	24
CC144994		<10	<1	0.09	40	0.46	282	<1	0.01	15	500	10	<0.01	<2	4	23
CC144995		10	<1	0.10	70	0.44	367	<1	0.01	13	490	12	0.01	<2	4	23
CC144996		<10	<1	0.08	70	0.43	403	1	0.02	14	420	13	0.01	<2	4	30
CC144997		<10	<1	0.08	20	0.66	544	<1	0.04	25	710	7	0.03	2	4	45
CC144998		<10	<1	0.07	20	0.48	365	<1	0.02	16	700	12	0.03	2	3	23
CC144999		<10	<1	0.06	20	0.46	1145	1	0.02	14	670	15	0.03	<2	3	25
CC145000		10	<1	0.06	10	0.70	338	<1	0.01	18	380	9	0.01	2	4	21
ZZ20531		<10	<1	0.11	30	0.72	423	<1	0.03	31	620	10	0.04	<2	5	87
ZZ20532		10	<1	0.26	30	0.56	243	<1	0.01	12	300	9	0.01	<2	3	27
ZZ20533		<10	<1	0.08	20	0.56	302	<1	0.03	23	410	9	0.02	2	5	56
ZZ20534		10	<1	0.07	30	0.64	440	<1	0.03	28	520	9	0.03	2	5	63
ZZ20535		<10	<1	0.08	20	0.60	400	<1	0.03	24	500	17	0.02	2	5	59
ZZ20536		10	<1	0.08	20	0.60	373	<1	0.02	19	340	10	0.01	2	4	35
ZZ20537		10	<1	0.12	40	0.76	538	1	0.03	22	450	9	0.01	<2	6	44
ZZ20538		10	<1	0.08	40	0.76	588	<1	0.03	30	480	12	0.02	<2	6	57
ZZ20539		<10	<1	0.15	20	0.66	394	<1	0.04	20	920	9	0.03	<2	4	44
ZZ20540		10	<1	0.29	110	0.88	488	1	0.02	12	480	16	0.01	<2	5	32
ZZ20555		10	<1	0.35	20	1.08	334	2	0.01	16	570	12	0.01	<2	4	19
ZZ20556		<10	<1	0.13	70	0.43	415	3	0.02	12	570	17	0.02	2	4	30
ZZ20557		<10	<1	0.09	70	0.39	493	2	0.02	11	510	22	0.04	2	4	39
ZZ20558		<10	<1	0.11	20	0.59	727	1	0.02	17	520	14	0.03	2	4	32
ZZ20559		<10	<1	0.14	30	0.61	1315	<1	0.02	18	630	13	0.02	3	4	32
ZZ20560		<10	<1	0.11	20	0.54	428	<1	0.03	18	490	8	0.03	<2	4	55
ZZ20561		10	<1	0.11	20	0.69	656	1	0.03	21	430	11	0.01	<2	5	44
ZZ20562		<10	<1	0.15	20	0.51	347	<1	0.03	19	190	8	0.01	2	5	40
ZZ20563		10	<1	0.11	40	0.51	377	1	0.01	25	550	11	0.02	<2	4	56
ZZ20564		10	<1	0.13	10	0.48	271	1	0.01	19	270	8	0.01	<2	4	31
ZZ20565		<10	<1	0.13	30	0.51	318	<1	0.01	27	470	9	0.02	<2	4	49
ZZ20566		<10	<1	0.12	20	0.48	329	<1	0.01	17	330	9	0.01	<2	4	36
ZZ20567		<10	<1	0.12	30	0.48	348	<1	0.01	18	450	10	0.02	<2	4	50
ZZ20568		<10	<1	0.13	60	0.39	198	1	<0.01	13	370	13	0.01	<2	4	32
ZZ20569		<10	<1	0.10	80	0.29	227	1	<0.01	13	420	14	0.01	<2	3	36
ZZ20570		<10	<1	0.08	30	0.41	409	1	0.01	20	420	22	0.01	2	4	37
CC144786		10	<1	0.08	10	0.64	413	1	<0.01	20	360	7	0.01	<2	5	24
CC144787		10	<1	0.07	10	0.62	290	1	<0.01	17	350	7	0.01	<2	5	20
CC144788		10	<1	0.07	10	0.69	568	1	<0.01	21	500	9	0.01	<2	6	24
CC144789		10	<1	0.09	20	0.46	304	1	<0.01	14	380	14	0.01	<2	3	14
CC144790		10	<1	0.08	20	0.32	312	1	<0.01	11	530	14	0.01	<2	2	11
CC144866		<10	<1	0.03	10	0.22	140	<1	<0.01	9	310	7	0.01	<2	2	11

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 26- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
CC144993		20	0.09	<10	<10	40	<10	45
CC144994		20	0.09	<10	<10	48	<10	53
CC144995		<20	0.08	<10	<10	51	<10	56
CC144996		20	0.07	<10	10	45	<10	54
CC144997		<20	0.10	<10	<10	60	<10	64
CC144998		<20	0.08	<10	<10	53	<10	64
CC144999		<20	0.07	<10	<10	54	<10	62
CC145000		<20	0.11	<10	<10	70	<10	50
ZZ20531		<20	0.08	<10	<10	51	<10	53
ZZ20532		<20	0.09	<10	<10	42	<10	44
ZZ20533		<20	0.08	<10	<10	54	<10	51
ZZ20534		<20	0.09	<10	<10	59	<10	58
ZZ20535		<20	0.08	<10	<10	51	<10	52
ZZ20536		<20	0.09	<10	<10	55	<10	47
ZZ20537		20	0.09	<10	<10	59	<10	52
ZZ20538		<20	0.07	<10	<10	62	<10	68
ZZ20539		<20	0.09	<10	<10	55	<10	58
ZZ20540		40	0.10	<10	<10	51	<10	55
ZZ20555		<20	0.13	<10	<10	65	<10	46
ZZ20556		30	0.07	<10	<10	39	<10	60
ZZ20557		40	0.06	<10	<10	39	<10	49
ZZ20558		<20	0.09	<10	<10	57	<10	60
ZZ20559		<20	0.09	<10	<10	56	<10	65
ZZ20560		<20	0.09	<10	<10	49	<10	62
ZZ20561		<20	0.09	<10	<10	56	<10	53
ZZ20562		<20	0.09	<10	<10	57	<10	48
ZZ20563		<20	0.08	<10	<10	45	<10	52
ZZ20564		<20	0.09	<10	<10	60	<10	44
ZZ20565		<20	0.08	<10	<10	45	<10	51
ZZ20566		<20	0.10	<10	<10	48	<10	46
ZZ20567		<20	0.08	<10	<10	41	<10	41
ZZ20568		30	0.06	<10	<10	36	<10	34
ZZ20569		40	0.03	<10	<10	27	<10	25
ZZ20570		20	0.05	<10	<10	38	<10	37
CC144786		<20	0.11	<10	<10	68	<10	49
CC144787		<20	0.10	<10	<10	56	<10	39
CC144788		<20	0.10	<10	<10	74	<10	57
CC144789		<20	0.08	<10	<10	62	<10	48
CC144790		<20	0.08	<10	<10	61	<10	46
CC144866		<20	0.07	<10	<10	44	<10	21

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1016- 510 W HASTINGS ST
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Finalized Date: 26- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC144867		0.26	0.007	<0.2	2.13	11	<10	180	0.7	<2	0.36	<0.5	9	46	23	2.85
CC144868		0.20	0.014	<0.2	1.30	8	<10	70	0.6	<2	0.21	<0.5	9	29	11	2.00
CC144869		0.26	0.009	<0.2	2.02	9	<10	210	0.7	<2	0.57	<0.5	9	46	34	3.13
CC144870		0.18	0.006	<0.2	2.10	10	<10	230	0.7	<2	0.50	<0.5	9	42	25	2.88

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CERTIFICATE OF ANALYSIS WH11158631

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC144867		10	<1	0.06	20	0.74	337	<1	<0.01	24	560	8	0.01	<2	6	26
CC144868		<10	<1	0.08	30	0.43	453	<1	<0.01	15	500	13	0.01	<2	3	15
CC144869		10	<1	0.08	20	0.70	318	<1	0.02	26	670	7	0.01	<2	8	37
CC144870		10	<1	0.06	30	0.57	369	<1	0.01	22	570	10	0.01	<2	7	32

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CERTIFICATE OF ANALYSIS WH11158631

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC144867		<20	0.12	<10	<10	68	<10	47
CC144868		<20	0.09	<10	<10	42	<10	41
CC144869		<20	0.13	<10	<10	74	<10	61
CC144870		<20	0.11	<10	<10	71	<10	53

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Finalized Date: 26- SEP- 2011
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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11158631

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

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 10- SEP- 2011
Account: F

CERTIFICATE WH11162943

Project: Arcus- Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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Finalized Date: 10- SEP- 2011
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Project: Arcus- Dan Man

CERTIFICATE OF ANALYSIS WH11162943

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I079917		1.29	<0.005	<0.2	0.61	11	<10	70	1.4	<2	0.11	<0.5	2	2	3	1.37
I079918		4.72	<0.005	<0.2	0.53	7	<10	30	1.2	<2	0.18	<0.5	1	3	4	0.93
I079919		4.43	0.010	<0.2	0.45	7	<10	40	0.9	2	0.38	<0.5	1	2	2	0.46
I079920		6.87	<0.005	<0.2	0.49	3	<10	40	1.0	<2	0.50	<0.5	1	3	1	0.78
I079921		4.60	<0.005	<0.2	0.38	4	<10	30	0.7	<2	0.82	<0.5	1	3	3	0.27
I079922		0.15	2.12	14.4	0.92	24	<10	20	<0.5	5	0.30	55.6	10	41	4940	8.81
I079923		1.80	<0.005	<0.2	0.50	16	<10	70	1.8	<2	0.06	<0.5	1	5	9	0.95
I079924		0.89	<0.005	<0.2	0.03	2	<10	10	<0.5	<2	18.7	<0.5	<1	1	<1	0.45
I079925		5.06	<0.005	<0.2	0.35	<2	<10	30	0.7	<2	0.31	<0.5	1	3	2	0.31
I079926		4.88	<0.005	<0.2	0.32	<2	<10	10	0.5	<2	0.04	<0.5	1	3	1	0.27
I079927		4.28	<0.005	<0.2	0.41	2	<10	30	0.7	2	0.09	<0.5	1	3	2	0.31
I079928		3.74	<0.005	<0.2	0.63	6	<10	50	1.1	2	0.07	<0.5	1	3	1	0.76
I079929		3.61	<0.005	<0.2	0.52	10	<10	20	1.0	<2	0.04	<0.5	1	2	1	0.49
I079930		3.64	<0.005	<0.2	0.35	4	<10	20	0.6	<2	0.04	<0.5	1	4	2	0.39
I079931		3.68	<0.005	<0.2	0.43	2	<10	10	0.6	<2	0.04	<0.5	<1	2	2	0.33
I079932		6.15	<0.005	0.2	0.41	5	<10	20	0.6	<2	0.02	<0.5	<1	3	1	0.25
I079933		0.26	0.381	52.6	1.17	99	<10	50	<0.5	<2	0.51	21.9	16	32	4300	4.54
I079934		1.37	0.016	<0.2	0.98	39	<10	270	4.6	<2	0.34	<0.5	33	17	18	5.34
I079935		0.87	<0.005	<0.2	0.03	<2	<10	<10	<0.5	<2	18.7	<0.5	<1	<1	1	0.44
I079936		4.95	<0.005	<0.2	0.63	10	<10	20	1.0	<2	0.05	<0.5	1	3	2	0.38
I079937		5.54	<0.005	<0.2	0.45	3	<10	20	0.7	<2	0.34	<0.5	<1	3	1	0.22
I079938		4.57	<0.005	<0.2	0.34	2	<10	20	0.6	<2	0.03	<0.5	1	3	2	0.25
I079939		4.27	<0.005	<0.2	0.36	5	<10	20	0.7	<2	0.03	<0.5	1	4	4	0.34
I079940		1.30	<0.005	<0.2	2.30	47	<10	330	6.5	<2	0.61	<0.5	47	334	52	7.43
I079941		2.07	<0.005	<0.2	0.47	5	<10	30	0.6	2	0.04	<0.5	1	3	4	0.36
I079942		0.88	<0.005	<0.2	0.53	16	<10	50	1.7	<2	0.07	<0.5	4	6	8	1.01
I079943		1.58	<0.005	<0.2	1.53	16	<10	180	2.6	<2	0.95	<0.5	15	89	15	3.00
I079944		3.82	<0.005	<0.2	2.84	11	<10	410	2.8	<2	4.28	<0.5	26	271	35	4.41
I079945		4.37	<0.005	<0.2	0.33	2	<10	40	<0.5	<2	0.06	<0.5	1	5	10	0.37
I079946		1.39	0.039	<0.2	0.43	53	<10	60	0.9	<2	0.09	<0.5	7	11	6	1.09
I079947		3.70	<0.005	<0.2	2.34	13	<10	160	2.2	<2	3.66	<0.5	23	156	29	3.76
I079948		5.50	<0.005	<0.2	0.38	4	<10	10	0.5	<2	0.03	<0.5	1	3	4	0.20
I079949		3.92	<0.005	<0.2	0.68	10	<10	10	0.8	<2	0.06	<0.5	2	3	9	0.44
I079950		1.78	<0.005	<0.2	2.03	21	<10	160	2.6	<2	0.30	<0.5	25	136	32	3.66
I079951		3.25	<0.005	<0.2	0.36	3	<10	20	<0.5	<2	0.03	<0.5	2	2	12	0.31
I079952		2.85	<0.005	<0.2	2.01	81	<10	200	3.8	2	0.19	<0.5	27	111	45	4.35

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Finalized Date: 10- SEP- 2011
Account: F

Project: Arcus- Dan Man

CERTIFICATE OF ANALYSIS WH11162943

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I079917		<10	<1	0.12	40	0.05	521	1	<0.01	3	230	12	<0.01	<2	2	13
I079918		<10	1	0.16	30	0.07	173	<1	0.04	<1	220	5	0.01	2	1	15
I079919		<10	<1	0.23	30	0.04	202	<1	0.04	<1	130	6	0.01	<2	<1	23
I079920		<10	1	0.25	30	0.06	220	<1	0.04	1	170	6	0.01	<2	<1	24
I079921		<10	1	0.24	30	0.02	109	<1	0.04	<1	100	8	0.01	<2	<1	39
I079922		<10	2	0.09	<10	0.94	332	12	0.01	21	100	239	>10.0	<2	2	8
I079923		<10	<1	0.17	30	0.05	241	<1	0.03	2	100	47	<0.01	<2	<1	17
I079924		<10	<1	0.01	10	11.95	209	<1	0.02	5	170	<2	0.01	<2	<1	55
I079925		<10	1	0.17	20	0.05	162	<1	0.04	<1	70	9	0.01	<2	<1	17
I079926		<10	<1	0.18	20	0.03	84	<1	0.03	<1	40	5	0.01	<2	<1	8
I079927		<10	<1	0.23	30	0.06	165	<1	0.04	2	70	5	0.01	<2	<1	12
I079928		<10	<1	0.30	30	0.11	167	<1	0.03	1	160	7	0.01	<2	<1	17
I079929		<10	<1	0.15	20	0.04	91	<1	0.01	1	60	3	0.01	<2	<1	9
I079930		<10	<1	0.11	20	0.03	111	<1	0.07	<1	50	3	0.01	<2	<1	9
I079931		<10	1	0.12	20	0.03	110	<1	0.05	<1	40	3	0.01	<2	<1	7
I079932		<10	1	0.11	20	0.02	87	<1	0.03	1	30	4	0.01	<2	<1	5
I079933		10	1	0.55	10	0.68	493	162	0.04	23	900	2130	2.47	65	7	37
I079934		<10	<1	0.18	10	0.14	1310	1	0.01	35	1140	16	0.01	<2	8	22
I079935		<10	1	0.01	<10	11.75	204	<1	0.01	<1	180	2	0.02	3	<1	53
I079936		<10	<1	0.10	20	0.03	132	<1	0.01	1	40	5	0.01	<2	<1	6
I079937		<10	<1	0.14	20	0.05	102	<1	0.03	<1	40	4	0.01	<2	<1	14
I079938		<10	1	0.17	20	0.02	104	<1	0.06	<1	40	2	0.01	<2	<1	6
I079939		<10	<1	0.14	30	0.03	154	<1	0.05	2	40	4	0.01	2	<1	6
I079940		10	<1	0.94	20	1.20	1535	1	0.02	185	2260	6	0.01	<2	24	40
I079941		<10	<1	0.13	20	0.04	135	<1	0.04	2	50	2	0.01	<2	<1	8
I079942		<10	<1	0.15	30	0.08	210	<1	0.02	7	140	6	0.01	<2	1	15
I079943		<10	1	0.70	30	0.77	687	<1	0.03	47	880	5	0.01	<2	8	32
I079944		10	1	1.71	20	2.20	992	<1	0.03	108	1540	7	0.01	<2	19	61
I079945		<10	<1	0.15	30	0.05	133	<1	0.05	2	110	3	0.01	<2	<1	10
I079946		<10	1	0.26	30	0.07	349	<1	<0.01	17	290	4	0.01	<2	1	17
I079947		10	<1	1.57	20	2.02	1140	<1	0.02	87	1070	9	0.01	<2	9	59
I079948		<10	1	0.13	20	0.02	69	<1	0.03	<1	50	3	<0.01	<2	<1	6
I079949		<10	<1	0.15	20	0.03	51	<1	0.01	2	80	3	<0.01	<2	<1	12
I079950		10	1	1.10	20	1.54	865	<1	0.02	70	790	10	0.01	<2	13	28
I079951		<10	1	0.16	20	0.03	78	<1	0.04	2	40	5	<0.01	<2	<1	8
I079952		10	<1	0.98	10	1.16	1225	1	0.01	62	350	13	0.01	5	15	32

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 10- SEP- 2011
Account: F

Project: Arcus- Dan Man

CERTIFICATE OF ANALYSIS WH11162943

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I079917		30	<0.01	<10	<10	9	<10	31	
I079918		30	<0.01	<10	<10	6	<10	8	
I079919		40	<0.01	<10	<10	2	<10	6	
I079920		40	0.01	<10	<10	4	<10	13	
I079921		40	<0.01	<10	<10	1	<10	2	
I079922		<20	0.02	<10	<10	16	<10	>10000	1.345
I079923		30	<0.01	<10	10	4	<10	34	
I079924		<20	<0.01	<10	<10	2	<10	23	
I079925		40	<0.01	<10	10	1	<10	5	
I079926		40	<0.01	<10	<10	1	<10	3	
I079927		40	<0.01	<10	<10	1	<10	4	
I079928		40	0.01	<10	<10	4	<10	10	
I079929		40	<0.01	<10	<10	3	<10	10	
I079930		40	<0.01	<10	<10	1	<10	8	
I079931		40	<0.01	<10	<10	1	<10	8	
I079932		40	<0.01	<10	<10	1	<10	5	
I079933		<20	0.09	<10	<10	87	<10	2720	
I079934		20	<0.01	<10	20	35	<10	84	
I079935		<20	<0.01	<10	<10	2	<10	15	
I079936		40	<0.01	<10	<10	2	<10	10	
I079937		40	<0.01	<10	<10	1	<10	4	
I079938		40	<0.01	<10	<10	1	<10	4	
I079939		40	<0.01	<10	<10	2	<10	5	
I079940		<20	0.09	<10	20	142	<10	100	
I079941		40	<0.01	<10	<10	2	<10	5	
I079942		30	<0.01	<10	<10	5	<10	28	
I079943		30	0.08	<10	<10	45	<10	43	
I079944		20	0.21	<10	<10	109	<10	58	
I079945		40	<0.01	<10	<10	2	<10	3	
I079946		30	<0.01	<10	<10	7	<10	19	
I079947		20	0.22	<10	<10	66	<10	58	
I079948		40	<0.01	<10	<10	1	<10	2	
I079949		40	<0.01	<10	<10	3	<10	5	
I079950		20	0.13	<10	<10	66	<10	51	
I079951		40	<0.01	<10	<10	1	<10	3	
I079952		<20	0.11	<10	30	73	<10	80	

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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 3- SEP- 2011
Account: F

CERTIFICATE WH11162944

Project: Arcus- Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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VANCOUVER BC V6B 1L8

Finalized Date: 3- SEP- 2011
Account: F

Project: Arcus- Dan Man

CERTIFICATE OF ANALYSIS WH11162944

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I079953		4.49	<0.005	<0.2	0.50	15	<10	40	0.9	<2	0.06	<0.5	5	5	6	0.96
I079954		5.00	<0.005	<0.2	0.68	11	<10	40	1.1	<2	0.07	<0.5	5	14	8	1.06
I079955		2.47	<0.005	<0.2	0.41	11	<10	40	0.7	<2	0.04	<0.5	3	2	6	0.50
I079956		4.88	<0.005	<0.2	0.89	14	<10	80	1.8	<2	1.61	<0.5	11	42	11	1.88
I079957		2.37	<0.005	<0.2	0.42	13	<10	40	0.9	5	0.25	<0.5	5	10	10	1.11
I079958		3.33	<0.005	<0.2	1.17	14	<10	90	2.0	5	2.12	<0.5	13	45	18	2.14
I079959		3.03	<0.005	<0.2	0.45	37	<10	40	0.9	24	0.17	<0.5	5	6	8	0.98
I079960		2.43	<0.005	<0.2	1.48	48	<10	100	3.7	3	4.62	<0.5	23	104	29	3.79
I079961		2.16	0.007	0.2	0.64	35	<10	50	1.4	16	0.12	<0.5	10	19	8	1.73
I079962		3.50	<0.005	0.2	0.60	48	<10	60	1.2	9	0.09	<0.5	7	7	8	1.17
I079963		0.24	0.338	55.7	1.19	103	<10	80	<0.5	2	0.50	21.9	19	32	4460	4.68
I079964		4.17	0.082	0.5	0.69	56	<10	50	1.1	15	0.06	<0.5	4	9	21	0.90
I079965		0.59	<0.005	<0.2	0.88	739	<10	60	6.4	10	0.08	0.9	31	70	23	7.56
I079966		2.50	0.006	2.7	0.47	53	<10	60	1.3	5	0.04	<0.5	5	5	12	1.02
I079967		1.32	<0.005	3.2	0.35	28	<10	70	0.9	<2	0.04	<0.5	3	10	19	1.00
I079968		2.44	<0.005	0.9	0.51	21	<10	40	0.7	<2	0.02	<0.5	3	3	4	0.62
I079969		1.19	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	18.8	<0.5	3	<1	1	0.43
I079970		2.64	0.005	<0.2	0.59	30	<10	70	1.6	<2	0.06	<0.5	3	3	3	0.69
I079971		3.33	<0.005	<0.2	0.52	24	<10	60	1.6	<2	0.04	<0.5	3	2	1	0.57
I079972		3.98	<0.005	<0.2	0.58	25	<10	50	1.4	<2	0.02	<0.5	3	2	1	0.53
I079973		4.80	<0.005	<0.2	0.52	27	<10	50	1.3	<2	0.02	<0.5	3	3	2	0.54
I079974		4.45	<0.005	<0.2	0.57	29	<10	50	1.3	<2	0.02	<0.5	3	3	3	0.62
I079975		4.07	<0.005	<0.2	0.59	28	<10	60	1.4	<2	0.02	<0.5	4	3	4	0.60
I079976		3.84	<0.005	<0.2	0.59	15	<10	70	1.3	<2	0.02	<0.5	3	2	4	0.43
I079977		4.63	<0.005	<0.2	0.50	24	<10	60	1.4	<2	0.02	<0.5	<1	3	2	0.62
I079978		4.09	<0.005	<0.2	0.46	7	<10	40	1.1	2	0.04	<0.5	1	2	1	0.48
I079979		3.54	<0.005	<0.2	0.47	16	<10	30	0.9	3	0.03	<0.5	<1	2	1	0.45
I079980		4.49	<0.005	<0.2	1.26	24	<10	180	1.7	3	1.60	<0.5	11	101	18	2.22
I079981		3.38	<0.005	<0.2	0.31	4	<10	40	0.5	2	0.04	<0.5	1	4	1	0.34
I079982		4.00	<0.005	<0.2	0.80	9	<10	100	1.4	2	1.45	<0.5	5	34	7	1.30
I079983		6.28	<0.005	<0.2	0.36	8	<10	40	0.7	3	0.24	<0.5	1	5	4	0.57
I079984		0.23	0.370	54.5	1.12	92	<10	60	<0.5	2	0.50	21.3	15	31	4170	4.59
I079985		1.92	<0.005	<0.2	1.50	20	<10	120	2.4	2	0.49	<0.5	12	40	15	2.64
I079986		0.94	<0.005	<0.2	0.03	<2	<10	10	<0.5	3	19.7	<0.5	<1	1	1	0.45
I079987		3.69	<0.005	<0.2	0.33	7	<10	40	0.6	3	0.07	<0.5	<1	3	4	0.47
I079988		4.16	<0.005	<0.2	0.36	14	<10	60	0.6	3	0.08	<0.5	1	4	3	0.48

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 3- SEP- 2011
Account: F

Project: Arcus- Dan Man

CERTIFICATE OF ANALYSIS WH11162944

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I079953		<10	<1	0.16	20	0.06	166	<1	0.04	4	100	5	<0.01	<2	1	17
I079954		<10	<1	0.20	20	0.15	199	<1	0.05	5	130	26	<0.01	2	2	16
I079955		<10	<1	0.16	20	0.03	74	<1	0.05	2	50	5	<0.01	<2	<1	9
I079956		<10	<1	0.38	20	0.37	372	<1	0.04	24	360	6	<0.01	2	5	25
I079957		<10	<1	0.14	20	0.12	159	<1	0.08	5	130	9	<0.01	<2	2	12
I079958		<10	<1	0.51	20	0.56	455	<1	0.05	25	310	7	<0.01	<2	7	36
I079959		<10	<1	0.19	20	0.08	204	<1	0.04	7	110	14	<0.01	<2	1	13
I079960		<10	1	0.55	10	1.15	675	1	0.04	43	600	10	0.06	11	17	86
I079961		<10	1	0.22	20	0.15	258	1	0.05	15	190	13	<0.01	3	3	21
I079962		<10	<1	0.18	30	0.09	295	<1	0.03	8	130	8	<0.01	3	2	21
I079963		10	1	0.55	10	0.69	483	163	0.06	23	930	2150	2.50	63	7	38
I079964		<10	<1	0.16	20	0.03	159	1	0.02	4	200	20	<0.01	4	2	19
I079965		<10	<1	0.20	10	0.07	358	2	0.02	38	190	40	<0.01	16	18	41
I079966		<10	1	0.15	20	0.03	102	2	0.02	4	60	16	<0.01	3	1	23
I079967		<10	1	0.16	30	0.03	112	6	0.02	3	60	7	<0.01	16	1	18
I079968		<10	<1	0.08	10	0.01	48	1	0.02	2	40	4	<0.01	2	1	14
I079969		<10	<1	0.01	<10	11.50	191	<1	0.03	<1	180	<2	<0.01	<2	<1	50
I079970		<10	<1	0.18	40	0.04	156	<1	0.02	1	80	10	<0.01	<2	1	12
I079971		<10	<1	0.20	40	0.03	124	<1	0.02	1	70	8	<0.01	<2	<1	10
I079972		<10	<1	0.21	30	0.01	87	<1	0.02	1	60	8	<0.01	<2	<1	6
I079973		<10	<1	0.19	30	0.01	92	<1	0.02	1	70	9	<0.01	<2	<1	7
I079974		<10	<1	0.15	20	0.01	96	<1	0.02	1	60	12	<0.01	<2	1	8
I079975		<10	<1	0.17	20	0.01	119	<1	0.02	1	60	10	<0.01	<2	<1	6
I079976		<10	<1	0.18	20	0.01	199	<1	0.03	2	50	9	<0.01	<2	1	4
I079977		<10	<1	0.17	20	0.02	165	<1	<0.01	2	60	14	<0.01	<2	1	7
I079978		<10	<1	0.15	30	0.03	103	<1	0.01	1	50	7	<0.01	<2	1	6
I079979		<10	<1	0.16	20	0.02	95	<1	<0.01	1	50	7	<0.01	<2	<1	6
I079980		<10	<1	0.74	20	0.79	432	<1	<0.01	39	460	13	<0.01	<2	7	21
I079981		<10	<1	0.18	20	0.02	84	<1	0.03	1	80	4	<0.01	<2	<1	7
I079982		<10	<1	0.46	20	0.38	232	<1	0.01	10	230	9	<0.01	<2	5	41
I079983		<10	<1	0.17	20	0.03	110	<1	0.04	1	100	8	<0.01	<2	1	10
I079984		10	<1	0.53	10	0.68	468	148	0.02	22	860	2090	2.36	63	7	36
I079985		10	<1	0.68	20	0.92	445	<1	0.02	25	900	10	<0.01	<2	8	26
I079986		<10	<1	0.01	<10	12.45	211	<1	<0.01	<1	160	2	0.01	<2	<1	49
I079987		<10	<1	0.21	30	0.03	130	<1	0.03	1	110	7	<0.01	<2	<1	7
I079988		<10	<1	0.20	30	0.03	193	<1	0.04	<1	120	6	<0.01	<2	<1	8

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 3- SEP- 2011
Account: F

Project: Arcus- Dan Man

CERTIFICATE OF ANALYSIS WH11162944

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
I079953		40	<0.01	<10	<10	6	<10	11
I079954		40	0.01	<10	<10	10	<10	9
I079955		40	<0.01	<10	<10	2	<10	4
I079956		30	0.02	<10	<10	27	<10	22
I079957		40	0.01	<10	<10	9	<10	12
I079958		30	0.04	<10	<10	35	<10	26
I079959		40	<0.01	<10	<10	5	<10	8
I079960		<20	0.03	<10	10	92	<10	50
I079961		30	<0.01	<10	<10	14	<10	15
I079962		40	<0.01	<10	<10	8	<10	11
I079963		<20	0.09	<10	<10	88	<10	2710
I079964		40	<0.01	<10	10	8	<10	17
I079965		<20	<0.01	<10	70	117	<10	98
I079966		30	<0.01	<10	10	8	10	11
I079967		30	<0.01	<10	<10	4	10	6
I079968		30	<0.01	<10	<10	4	<10	5
I079969		<20	<0.01	<10	<10	<1	<10	16
I079970		30	<0.01	<10	10	2	<10	19
I079971		40	<0.01	<10	10	2	<10	23
I079972		40	<0.01	<10	10	2	<10	20
I079973		40	<0.01	<10	10	2	<10	17
I079974		40	<0.01	<10	10	3	<10	24
I079975		40	<0.01	<10	20	2	<10	26
I079976		40	<0.01	<10	10	2	<10	21
I079977		40	<0.01	<10	10	2	<10	19
I079978		40	<0.01	<10	10	1	<10	16
I079979		40	<0.01	<10	10	1	<10	8
I079980		30	0.07	<10	10	42	<10	32
I079981		40	<0.01	<10	<10	1	<10	2
I079982		30	0.03	<10	<10	24	<10	13
I079983		40	<0.01	<10	10	3	<10	6
I079984		<20	0.08	<10	<10	84	<10	2630
I079985		20	0.08	<10	10	45	<10	52
I079986		<20	<0.01	<10	<10	2	<10	17
I079987		40	<0.01	<10	<10	2	<10	3
I079988		40	<0.01	<10	<10	2	<10	5

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Finalized Date: 4- SEP- 2011
Account: F

CERTIFICATE WH11162945

Project: Arcus- Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 4- SEP- 2011
Account: F

Project: Arcus- Dan Man

CERTIFICATE OF ANALYSIS WH11162945

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
J998208		5.32	<0.005	0.3	0.42	6	<10	30	0.6	<2	1.53	<0.5	1	4	4	0.28
J998209		3.23	0.023	<0.2	0.51	14	<10	30	0.8	<2	1.35	<0.5	1	4	1	0.44
J998210		5.94	<0.005	<0.2	0.38	8	<10	30	0.6	<2	0.89	<0.5	1	4	1	0.66
J998211		7.17	<0.005	<0.2	0.38	4	<10	30	<0.5	<2	1.06	<0.5	1	5	2	0.73
J998212		5.79	0.008	<0.2	0.37	15	<10	30	0.5	<2	0.89	<0.5	1	4	2	0.85
J998213		8.10	0.007	<0.2	0.40	20	<10	40	0.6	<2	0.68	<0.5	1	5	2	0.79
J998214		1.58	<0.005	0.2	0.02	<2	<10	10	<0.5	<2	18.2	<0.5	2	<1	<1	0.44
J998215		4.43	<0.005	<0.2	0.36	5	<10	30	<0.5	<2	0.66	<0.5	1	4	2	0.70
J998216		6.15	<0.005	<0.2	0.37	4	<10	30	<0.5	<2	0.60	<0.5	1	4	1	0.70
J998217		4.47	<0.005	<0.2	0.42	10	<10	50	0.5	<2	1.32	<0.5	1	4	1	0.65
J998218		4.12	<0.005	<0.2	0.35	3	<10	30	<0.5	<2	0.99	<0.5	1	4	<1	0.48
J998219		5.01	<0.005	4.6	1.15	2	<10	90	0.6	<2	0.28	<0.5	6	18	19	1.71
J998220		2.87	<0.005	<0.2	1.41	3	<10	70	0.9	<2	0.24	<0.5	10	50	12	2.02
J998221		1.78	<0.005	<0.2	2.16	2	<10	140	0.9	<2	0.38	0.5	13	110	13	2.70
J998222		2.26	<0.005	<0.2	2.32	4	<10	200	1.2	<2	0.64	<0.5	13	107	8	3.03
J998223		6.32	<0.005	<0.2	2.02	2	<10	180	0.7	<2	0.46	<0.5	13	47	13	2.78
J998224		4.67	0.087	0.2	2.51	1250	<10	350	1.1	<2	0.44	<0.5	19	99	18	3.78
J998225		0.12	2.23	14.6	0.96	27	<10	20	<0.5	4	0.29	56.2	10	43	5100	8.99
J998226		1.44	0.051	0.2	0.56	662	<10	120	1.1	<2	1.98	<0.5	13	22	13	2.48
J998227		1.06	<0.005	<0.2	0.44	49	<10	20	0.5	<2	0.05	<0.5	1	3	5	0.42
J998228		1.48	1.175	0.3	0.68	6610	<10	370	2.2	<2	1.02	<0.5	19	22	13	4.93
J998229		3.17	0.359	0.3	0.32	784	<10	30	0.6	<2	0.05	<0.5	2	3	6	1.00
J998230		1.61	<0.005	<0.2	0.03	10	<10	<10	<0.5	<2	19.4	<0.5	1	<1	1	0.43
J998231		2.14	0.472	<0.2	0.27	659	<10	50	0.5	<2	0.08	<0.5	<1	2	4	0.67
J998232		3.87	0.037	<0.2	0.39	359	<10	80	0.7	<2	0.07	<0.5	1	4	3	0.89
J998233		5.31	0.092	<0.2	0.37	714	<10	110	1.0	<2	0.10	<0.5	4	8	8	1.78
J998234		5.69	0.033	<0.2	0.48	560	<10	80	1.0	<2	0.10	<0.5	5	16	9	1.37
J998235		2.81	0.229	0.2	0.35	733	<10	100	1.0	<2	0.13	<0.5	3	4	4	1.37
J998236		0.98	0.202	0.2	1.32	1455	<10	210	2.5	<2	0.42	<0.5	22	14	15	5.37
J998237		2.10	0.015	0.2	0.48	416	<10	100	0.9	<2	0.11	<0.5	5	9	7	1.66
J998238		2.12	0.009	0.2	1.39	795	<10	300	2.4	<2	0.27	<0.5	24	107	21	4.05
J998239		2.59	0.055	0.2	0.39	611	<10	50	0.6	<2	0.08	<0.5	3	7	3	1.33
J998240		1.57	0.070	0.2	0.38	718	<10	350	0.9	<2	0.10	<0.5	5	6	4	1.28
J998241		2.83	0.094	0.2	0.38	248	<10	50	0.6	<2	0.04	<0.5	2	6	4	0.84
J998242		0.28	0.331	48.8	1.07	94	<10	40	<0.5	<2	0.46	20.6	15	30	4080	4.27
J998243		2.01	0.438	0.2	0.26	190	<10	20	<0.5	<2	0.03	<0.5	<1	2	5	0.43

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VANCOUVER BC V6B 1L8

Finalized Date: 4- SEP- 2011
Account: F

Project: Arcus- Dan Man

CERTIFICATE OF ANALYSIS WH11162945

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
J998208		<10	<1	0.24	20	0.03	193	<1	0.05	<1	60	5	0.01	<2	<1	45
J998209		<10	<1	0.25	30	0.03	219	<1	0.03	<1	100	8	0.01	<2	<1	42
J998210		<10	<1	0.21	40	0.03	271	<1	0.04	<1	130	10	0.02	<2	1	29
J998211		<10	<1	0.20	50	0.07	297	3	0.05	<1	160	11	0.05	<2	1	36
J998212		<10	<1	0.19	40	0.05	287	1	0.04	<1	130	9	0.03	<2	1	23
J998213		<10	<1	0.22	40	0.05	290	1	0.03	<1	150	8	0.01	2	<1	31
J998214		<10	1	0.01	<10	11.60	205	<1	0.01	<1	170	<2	0.06	2	<1	52
J998215		<10	<1	0.17	40	0.07	223	<1	0.04	<1	130	7	0.01	<2	<1	26
J998216		<10	<1	0.19	40	0.06	204	1	0.05	<1	120	7	0.01	<2	<1	22
J998217		<10	<1	0.24	40	0.04	348	<1	0.04	<1	160	8	0.01	2	<1	29
J998218		<10	<1	0.19	40	0.03	198	<1	0.05	<1	120	6	0.01	<2	<1	27
J998219		<10	<1	0.58	30	0.62	381	<1	0.05	10	490	4	0.01	<2	2	22
J998220		<10	<1	0.73	30	1.00	426	<1	0.03	23	470	8	0.01	<2	4	13
J998221		10	<1	1.06	30	1.95	707	<1	0.03	44	660	40	0.01	<2	5	24
J998222		10	<1	1.24	20	1.82	867	<1	0.04	40	1800	5	0.01	2	6	26
J998223		10	<1	1.01	20	1.56	508	<1	0.03	27	910	5	<0.01	<2	3	28
J998224		10	1	1.31	20	2.00	727	<1	0.02	37	790	8	<0.01	6	9	22
J998225		<10	2	0.10	<10	0.95	343	13	0.01	22	110	243	>10.0	<2	2	7
J998226		<10	1	0.29	20	0.13	598	<1	<0.01	27	840	12	<0.01	120	4	28
J998227		<10	<1	0.17	10	0.04	59	<1	<0.01	2	50	3	<0.01	6	<1	26
J998228		<10	1	0.30	30	0.12	1050	1	<0.01	39	1310	19	0.01	45	10	91
J998229		<10	1	0.19	10	0.02	140	2	<0.01	2	70	29	<0.01	97	1	19
J998230		<10	<1	0.01	<10	11.80	209	<1	<0.01	1	210	<2	0.06	<2	<1	49
J998231		<10	<1	0.18	10	0.03	37	1	<0.01	<1	50	19	<0.01	43	<1	17
J998232		<10	1	0.16	30	0.03	303	<1	<0.01	1	190	18	<0.01	47	1	16
J998233		<10	1	0.20	30	0.05	405	<1	<0.01	8	380	15	<0.01	53	2	30
J998234		<10	1	0.21	30	0.05	319	<1	<0.01	9	380	14	<0.01	26	2	19
J998235		<10	1	0.22	40	0.04	271	2	<0.01	3	390	55	<0.01	27	1	27
J998236		<10	1	0.61	20	0.37	1005	<1	<0.01	11	1720	14	<0.01	45	9	29
J998237		<10	1	0.17	30	0.06	388	<1	<0.01	6	460	10	<0.01	71	2	14
J998238		<10	1	0.63	20	0.60	1125	<1	<0.01	89	990	10	<0.01	274	7	19
J998239		<10	<1	0.15	30	0.03	194	1	<0.01	7	260	11	<0.01	33	1	21
J998240		<10	1	0.18	30	0.05	468	1	<0.01	8	260	17	<0.01	28	1	48
J998241		<10	<1	0.17	30	0.03	119	<1	<0.01	2	100	12	<0.01	983	<1	27
J998242		10	1	0.50	10	0.61	458	149	0.03	22	810	2020	2.31	61	7	32
J998243		<10	<1	0.21	30	0.02	71	2	<0.01	2	50	13	0.03	341	<1	31

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 4- SEP- 2011
Account: F

Project: Arcus- Dan Man

CERTIFICATE OF ANALYSIS WH11162945

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	Zn- OG46 Zn % 0.001
J998208		40	<0.01	<10	<10	1	10	3	
J998209		40	<0.01	<10	<10	1	<10	4	
J998210		40	<0.01	<10	<10	2	<10	9	
J998211		40	0.01	<10	<10	2	<10	13	
J998212		30	0.01	<10	<10	2	<10	15	
J998213		40	<0.01	<10	<10	2	<10	13	
J998214		<20	<0.01	<10	<10	1	<10	18	
J998215		40	0.01	<10	<10	2	<10	10	
J998216		40	0.01	<10	<10	2	<10	11	
J998217		40	<0.01	<10	<10	2	<10	8	
J998218		40	<0.01	<10	<10	1	<10	5	
J998219		20	0.08	<10	<10	18	30	37	
J998220		20	0.07	<10	<10	25	<10	45	
J998221		20	0.12	<10	<10	44	<10	148	
J998222		20	0.15	<10	<10	47	<10	62	
J998223		<20	0.14	<10	<10	40	<10	56	
J998224		<20	0.16	<10	<10	63	<10	60	
J998225		<20	0.02	<10	<10	16	<10	>10000	1.310
J998226		<20	<0.01	<10	<10	29	<10	45	
J998227		40	<0.01	<10	<10	1	<10	3	
J998228		<20	<0.01	<10	<10	24	<10	74	
J998229		30	<0.01	<10	<10	1	<10	16	
J998230		<20	<0.01	<10	<10	1	<10	19	
J998231		30	<0.01	<10	<10	1	<10	4	
J998232		40	<0.01	<10	<10	5	<10	14	
J998233		30	<0.01	<10	<10	14	<10	29	
J998234		30	<0.01	<10	<10	10	<10	18	
J998235		30	<0.01	<10	<10	4	240	54	
J998236		<20	0.03	<10	10	77	20	110	
J998237		30	<0.01	<10	<10	12	<10	23	
J998238		<20	0.05	<10	<10	48	<10	71	
J998239		30	<0.01	<10	<10	4	<10	13	
J998240		30	<0.01	<10	10	3	<10	15	
J998241		30	<0.01	<10	<10	3	<10	10	
J998242		<20	0.08	<10	<10	82	<10	2410	
J998243		20	<0.01	<10	<10	1	<10	5	

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

Finalized Date: 22- SEP- 2011
Account: F

CERTIFICATE WH11165350

Project: Arcus - Dan Man

P.O. No.:

This report is for 100 Soil samples submitted to our lab in Whitehorse, YT, Canada on 20- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165350

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ24321		0.14	0.001	0.2	1.82	3	<10	340	0.6	2	0.40	<0.5	14	37	29	3.18
ZZ24322		0.20	0.002	0.2	2.45	3	<10	210	<0.5	<2	0.50	<0.5	14	35	40	3.87
ZZ24323		0.30	0.003	<0.2	2.01	11	<10	300	0.7	<2	0.39	<0.5	11	40	46	3.19
ZZ24324		0.30	0.004	0.3	1.68	5	<10	290	0.5	<2	0.73	<0.5	11	18	36	3.58
ZZ24325		0.26	0.010	0.2	1.60	6	<10	240	0.5	<2	0.43	<0.5	10	29	31	3.19
ZZ24326		0.26	<0.001	<0.2	1.99	7	<10	280	<0.5	<2	0.48	<0.5	28	19	100	4.85
ZZ24327		0.24	<0.001	<0.2	1.41	2	<10	140	<0.5	<2	0.53	<0.5	26	13	74	5.66
ZZ24328		0.24	<0.001	0.3	3.32	3	<10	650	<0.5	<2	1.00	<0.5	51	9	218	8.12
ZZ24329		0.22	0.002	0.3	1.64	2	<10	120	<0.5	<2	3.03	<0.5	32	4	83	6.41
ZZ24330		0.32	0.003	0.3	1.32	4	<10	110	<0.5	<2	0.68	<0.5	16	18	43	3.45
ZZ24331		0.20	0.001	0.4	2.00	8	<10	470	<0.5	<2	0.28	<0.5	10	27	28	3.50
ZZ24332		0.24	0.008	0.4	2.51	6	<10	400	0.5	<2	0.46	<0.5	18	24	40	4.96
ZZ24333		0.30	0.006	0.2	3.03	3	<10	560	3.0	<2	0.95	<0.5	23	20	115	5.32
ZZ24334		0.34	0.005	0.4	1.67	11	<10	260	0.6	<2	0.46	<0.5	13	42	56	3.59
ZZ24335		0.30	0.001	<0.2	1.84	4	<10	220	<0.5	<2	0.56	<0.5	13	30	26	3.85
ZZ24336		0.24	0.005	<0.2	1.62	6	<10	200	<0.5	<2	0.56	<0.5	12	26	35	3.60
ZZ24337		0.20	0.003	0.4	2.08	17	<10	470	0.7	<2	0.48	<0.5	18	92	67	4.31
ZZ24338		0.22	0.004	0.4	1.64	12	<10	410	0.5	<2	0.47	<0.5	12	56	49	3.44
ZZ24339		0.18	0.016	1.2	1.47	37	<10	640	0.8	<2	0.69	2.6	23	65	139	4.54
ZZ24340		0.26	0.005	0.3	1.36	5	<10	320	<0.5	<2	0.34	<0.5	10	45	31	2.79
ZZ24341		0.30	0.003	0.3	1.38	12	<10	490	0.5	<2	0.34	<0.5	10	40	33	2.90
ZZ24342		0.16	0.012	0.2	1.31	60	<10	420	<0.5	<2	1.01	<0.5	41	132	77	2.77
ZZ24343		0.22	0.008	0.2	1.26	9	<10	240	<0.5	<2	0.82	<0.5	30	98	38	2.74
ZZ24344		0.32	0.003	<0.2	1.51	10	<10	290	<0.5	<2	0.40	<0.5	22	75	16	2.97
ZZ24345		0.20	0.003	0.2	1.77	24	<10	410	<0.5	<2	0.35	<0.5	32	242	43	3.23
ZZ24346		0.20	0.020	0.2	1.76	20	<10	270	<0.5	<2	0.62	<0.5	53	195	60	3.10
ZZ24347		0.16	0.004	0.6	1.62	16	<10	480	0.7	<2	0.36	<0.5	11	67	53	3.22
ZZ24348		0.20	0.002	0.6	1.54	17	<10	930	0.5	<2	0.44	<0.5	13	36	21	2.91
ZZ24349		0.20	0.005	0.7	1.43	39	<10	420	0.8	<2	0.35	0.7	15	44	82	4.06
ZZ24350		0.18	0.002	0.9	1.53	7	<10	390	<0.5	<2	0.30	<0.5	9	33	21	2.97
ZZ24371		0.24	0.003	0.4	2.23	3	<10	390	1.1	<2	0.65	<0.5	20	62	70	4.69
ZZ24372		0.30	0.003	0.2	1.83	7	<10	360	0.5	<2	0.48	<0.5	11	33	42	3.31
ZZ24373		0.30	0.004	0.3	1.87	9	<10	550	0.5	<2	0.26	<0.5	9	37	21	3.01
ZZ24374		0.26	0.005	0.3	1.61	7	<10	520	0.7	<2	0.56	<0.5	13	34	36	3.62
ZZ24375		0.20	0.002	<0.2	3.37	2	<10	670	0.8	<2	0.67	<0.5	19	61	80	5.29
ZZ24376		0.16	<0.001	<0.2	2.87	4	<10	530	<0.5	<2	0.17	<0.5	17	46	84	6.03
ZZ24377		0.26	0.003	0.3	1.74	7	<10	350	0.5	<2	0.55	<0.5	11	36	46	3.30
ZZ24378		0.22	0.001	<0.2	2.57	<2	<10	310	0.6	<2	0.41	<0.5	22	43	57	4.51
ZZ24379		0.20	0.001	<0.2	2.24	6	<10	170	0.5	<2	0.29	<0.5	18	47	110	4.09
ZZ24380		0.26	0.001	<0.2	3.14	3	<10	320	0.9	<2	0.45	<0.5	23	81	59	5.46

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 22- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165350

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ24321		10	<1	0.59	10	0.73	588	1	0.02	31	360	8	0.01	<2	4	31
ZZ24322		10	<1	0.09	10	1.11	440	<1	0.03	20	1140	7	0.03	<2	6	39
ZZ24323		10	<1	0.04	20	0.63	352	<1	0.02	25	420	9	0.03	<2	9	38
ZZ24324		10	<1	0.50	30	0.65	765	1	0.02	12	560	20	0.05	<2	5	39
ZZ24325		10	<1	0.25	20	0.60	428	<1	0.03	16	550	11	0.03	<2	6	29
ZZ24326		10	1	0.58	<10	1.26	237	<1	0.06	13	690	6	0.04	<2	6	29
ZZ24327		10	1	0.19	<10	0.90	148	<1	0.07	11	370	3	0.03	<2	6	25
ZZ24328		10	<1	0.26	10	3.50	1015	<1	0.11	12	1130	4	0.03	<2	27	56
ZZ24329		10	<1	0.11	<10	1.03	190	<1	0.11	2	>10000	2	0.03	<2	10	138
ZZ24330		<10	<1	0.16	<10	0.92	209	<1	0.06	11	1260	6	0.03	<2	5	33
ZZ24331		10	<1	0.19	10	0.75	351	1	0.02	15	480	14	0.03	<2	4	24
ZZ24332		10	<1	0.89	10	1.21	558	<1	0.02	18	870	15	0.03	<2	5	28
ZZ24333		10	1	1.07	10	2.21	521	<1	0.04	13	1890	12	0.03	<2	9	32
ZZ24334		10	<1	0.17	20	0.65	257	<1	0.03	29	500	9	0.03	<2	8	34
ZZ24335		10	1	0.30	10	0.89	361	<1	0.03	15	1070	9	0.03	<2	4	33
ZZ24336		10	1	0.14	10	0.68	296	<1	0.03	13	1150	8	0.03	<2	4	33
ZZ24337		10	<1	0.99	20	1.33	742	2	0.03	63	1030	7	0.09	<2	8	35
ZZ24338		10	<1	0.63	20	0.91	501	2	0.03	41	1100	9	0.09	<2	5	33
ZZ24339		10	<1	0.38	20	0.88	1100	5	0.03	138	1300	16	0.24	<2	8	67
ZZ24340		10	<1	0.30	10	0.61	232	1	0.02	34	440	6	0.05	<2	3	25
ZZ24341		<10	<1	0.16	20	0.44	214	2	0.02	51	830	10	0.04	<2	5	28
ZZ24342		<10	<1	0.14	10	1.27	559	<1	0.04	574	650	5	0.06	<2	3	45
ZZ24343		<10	<1	0.08	10	1.44	492	<1	0.04	408	400	7	0.05	<2	4	41
ZZ24344		<10	<1	0.08	10	0.97	612	1	0.03	197	190	9	0.03	<2	5	27
ZZ24345		10	1	0.23	10	1.89	394	<1	0.04	563	470	6	0.04	<2	5	25
ZZ24346		<10	<1	0.13	10	1.87	382	<1	0.02	966	710	5	0.04	<2	4	27
ZZ24347		10	<1	0.26	20	0.85	397	3	0.03	63	1080	10	0.11	<2	4	33
ZZ24348		<10	<1	0.15	10	0.46	636	1	0.02	39	450	9	0.03	<2	5	32
ZZ24349		<10	<1	0.17	20	0.49	480	5	0.02	91	1450	8	0.09	<2	5	36
ZZ24350		10	<1	0.13	10	0.50	296	2	0.02	24	1310	11	0.09	<2	3	27
ZZ24371		10	1	1.10	40	1.34	1035	2	0.02	58	1160	16	0.04	<2	8	38
ZZ24372		10	<1	0.14	30	0.69	505	<1	0.02	20	590	47	0.04	<2	6	32
ZZ24373		10	1	0.06	10	0.62	276	<1	0.02	19	200	14	0.03	<2	5	26
ZZ24374		10	1	0.09	20	0.54	675	<1	0.03	25	660	11	0.03	<2	8	37
ZZ24375		10	1	0.88	10	2.48	969	<1	0.02	32	840	4	0.03	<2	4	40
ZZ24376		10	<1	0.81	10	1.51	463	<1	0.05	22	660	5	0.38	<2	7	25
ZZ24377		10	1	0.09	10	0.75	401	1	0.03	24	650	8	0.03	<2	7	40
ZZ24378		10	<1	0.60	10	1.80	593	1	0.03	24	470	5	0.02	<2	8	27
ZZ24379		10	1	0.05	10	0.77	444	1	0.03	25	520	8	0.02	<2	6	19
ZZ24380		20	1	0.71	20	2.09	779	1	0.03	41	570	5	0.02	<2	17	34

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Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ24321		<20	0.14	<10	<10	59	<10	82
ZZ24322		<20	0.11	<10	<10	101	<10	66
ZZ24323		<20	0.10	<10	<10	72	<10	56
ZZ24324		<20	0.14	<10	<10	52	<10	128
ZZ24325		<20	0.11	<10	<10	64	<10	65
ZZ24326		<20	0.18	<10	<10	179	<10	60
ZZ24327		<20	0.11	<10	<10	265	<10	40
ZZ24328		<20	0.10	<10	<10	356	<10	70
ZZ24329		<20	0.07	<10	<10	218	<10	54
ZZ24330		<20	0.12	<10	<10	115	<10	41
ZZ24331		<20	0.13	<10	<10	72	<10	72
ZZ24332		<20	0.27	<10	<10	105	<10	96
ZZ24333		<20	0.24	<10	<10	140	<10	132
ZZ24334		<20	0.12	<10	<10	92	<10	55
ZZ24335		<20	0.16	<10	<10	98	<10	72
ZZ24336		<20	0.11	<10	<10	97	<10	60
ZZ24337		<20	0.17	<10	<10	121	<10	117
ZZ24338		<20	0.11	<10	<10	88	<10	110
ZZ24339		<20	0.07	<10	<10	116	<10	342
ZZ24340		<20	0.12	<10	<10	71	<10	79
ZZ24341		<20	0.06	<10	<10	66	<10	101
ZZ24342		<20	0.07	<10	<10	52	<10	61
ZZ24343		<20	0.05	<10	<10	43	<10	44
ZZ24344		<20	0.07	<10	<10	56	<10	53
ZZ24345		<20	0.09	<10	<10	73	<10	66
ZZ24346		<20	0.10	<10	<10	57	<10	55
ZZ24347		<20	0.12	<10	<10	81	<10	118
ZZ24348		<20	0.07	<10	<10	62	<10	94
ZZ24349		<20	0.05	<10	<10	70	<10	220
ZZ24350		<20	0.07	<10	<10	61	<10	88
ZZ24371		20	0.17	<10	<10	103	<10	157
ZZ24372		<20	0.13	<10	<10	66	<10	94
ZZ24373		<20	0.11	<10	<10	66	<10	52
ZZ24374		<20	0.08	<10	<10	65	<10	64
ZZ24375		<20	0.30	<10	<10	138	<10	148
ZZ24376		<20	0.20	<10	<10	130	<10	81
ZZ24377		<20	0.12	<10	<10	70	<10	60
ZZ24378		<20	0.27	<10	<10	109	<10	82
ZZ24379		<20	0.13	<10	<10	90	<10	58
ZZ24380		<20	0.32	<10	<10	143	<10	93

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ24381		0.22	0.004	<0.2	2.41	7	<10	290	0.5	<2	0.30	<0.5	13	45	54	3.57
ZZ24382		0.30	0.004	0.3	2.12	2	<10	210	<0.5	<2	0.58	<0.5	16	31	73	3.10
ZZ24383		0.24	0.005	<0.2	1.85	4	<10	150	<0.5	<2	0.40	<0.5	15	26	41	3.27
ZZ24384		0.26	0.002	0.3	1.87	2	<10	250	<0.5	<2	0.53	<0.5	10	37	46	3.26
ZZ24385		0.18	0.001	<0.2	2.08	3	<10	210	<0.5	<2	0.53	<0.5	14	40	30	4.03
ZZ24386		0.30	0.002	<0.2	1.76	10	<10	290	<0.5	<2	0.31	<0.5	12	56	27	3.04
ZZ24387		0.26	0.005	<0.2	2.02	3	<10	640	0.5	<2	0.57	<0.5	14	67	35	3.02
ZZ24388		0.24	0.004	<0.2	2.55	4	<10	770	0.7	<2	0.55	<0.5	17	104	35	3.25
ZZ24389		0.30	0.004	<0.2	2.37	3	<10	640	0.6	<2	0.46	<0.5	13	87	29	3.05
ZZ24390		0.18	0.003	<0.2	2.28	5	<10	300	0.5	<2	0.25	<0.5	11	64	30	3.20
ZZ24391		0.24	0.011	<0.2	2.01	6	<10	420	0.5	<2	0.39	<0.5	10	50	39	3.18
ZZ24392		0.20	0.003	<0.2	1.87	6	<10	310	0.5	<2	0.24	<0.5	8	36	22	2.65
ZZ24393		0.28	0.003	<0.2	3.14	2	<10	510	0.8	<2	0.19	<0.5	18	109	57	4.24
ZZ24394		0.20	<0.001	<0.2	2.28	4	<10	580	<0.5	<2	0.36	<0.5	14	61	17	3.03
ZZ24395		0.22	0.001	<0.2	1.80	5	<10	150	<0.5	<2	0.22	<0.5	9	58	14	2.98
ZZ24396		0.24	0.010	<0.2	2.42	<2	<10	990	0.7	<2	0.67	<0.5	18	97	47	3.34
ZZ24397		0.18	0.024	0.2	1.81	7	<10	400	<0.5	<2	0.50	<0.5	10	39	27	2.91
ZZ24398		0.28	0.010	0.2	2.00	4	<10	300	<0.5	<2	0.36	<0.5	11	32	29	3.13
ZZ24399		0.18	0.003	<0.2	3.19	<2	<10	500	<0.5	<2	0.18	<0.5	13	26	71	5.12
ZZ24400		0.14	0.002	<0.2	1.81	5	<10	170	<0.5	<2	0.35	<0.5	10	32	21	2.97
ZZ24401		0.22	<0.001	<0.2	1.78	5	<10	190	<0.5	<2	0.58	<0.5	14	24	27	3.06
ZZ24402		0.24	0.002	<0.2	1.76	8	<10	260	<0.5	<2	0.35	<0.5	14	35	54	3.06
ZZ24403		0.28	0.003	<0.2	1.83	4	<10	230	<0.5	<2	0.54	<0.5	13	30	52	3.25
ZZ24404		0.26	0.002	<0.2	2.27	13	<10	340	0.5	<2	0.39	<0.5	12	36	52	4.19
ZZ24405		0.14	0.004	<0.2	2.05	5	<10	450	<0.5	<2	0.72	<0.5	13	53	30	3.36
ZZ24406		0.24	0.001	<0.2	1.86	3	<10	300	<0.5	<2	1.00	<0.5	16	37	99	3.53
ZZ24407		0.34	0.001	<0.2	2.10	5	<10	220	0.5	<2	0.59	<0.5	17	33	50	3.45
ZZ24408		0.18	0.001	<0.2	3.69	<2	<10	480	<0.5	<2	0.39	<0.5	19	27	166	5.38
ZZ24409		0.24	0.001	<0.2	2.13	6	<10	270	0.5	<2	0.65	<0.5	16	50	38	3.59
ZZ24410		0.30	0.003	<0.2	1.96	7	<10	280	<0.5	<2	0.48	<0.5	13	38	35	3.14
ZZ24411		0.24	0.003	0.2	1.86	3	<10	220	<0.5	<2	0.80	<0.5	11	38	42	3.13
ZZ24412		0.22	0.002	0.2	2.01	6	<10	240	0.5	<2	1.06	<0.5	15	38	51	3.60
ZZ24413		0.18	0.002	0.2	2.13	5	<10	230	<0.5	<2	0.42	<0.5	11	39	44	3.01
ZZ24414		0.26	0.001	<0.2	1.77	5	<10	190	<0.5	<2	0.46	<0.5	12	40	39	3.03
ZZ24415		0.26	0.003	<0.2	2.26	7	<10	190	<0.5	<2	0.35	<0.5	15	46	29	3.52
ZZ24416		0.22	0.002	<0.2	2.21	9	<10	350	0.5	<2	0.61	<0.5	15	49	44	3.87
ZZ24417		0.16	0.002	0.5	1.75	5	<10	830	<0.5	<2	3.29	<0.5	11	35	65	3.27
ZZ24418		0.24	0.005	0.2	1.91	4	<10	460	<0.5	<2	0.38	<0.5	12	23	25	3.64
ZZ24419		0.28	0.024	0.9	1.73	4	<10	270	<0.5	<2	0.35	<0.5	9	18	23	3.44
ZZ24420		0.24	0.002	0.2	2.26	3	<10	340	<0.5	<2	0.33	<0.5	15	20	27	4.33

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Finalized Date: 22- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165350

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ24381		10	<1	0.05	10	0.62	266	1	0.03	25	730	29	0.02	<2	6	28
ZZ24382		10	<1	0.11	<10	1.29	343	1	0.04	21	1210	29	0.03	2	4	48
ZZ24383		10	<1	0.11	10	0.73	587	1	0.03	15	1400	7	0.03	<2	4	25
ZZ24384		10	<1	0.09	10	0.99	361	1	0.03	14	920	7	0.02	<2	6	26
ZZ24385		10	<1	0.38	<10	1.19	496	1	0.03	13	830	4	0.03	<2	6	19
ZZ24386		10	<1	0.10	10	0.79	275	2	0.02	35	420	12	0.02	<2	4	23
ZZ24387		10	<1	0.27	10	1.15	419	1	0.03	35	740	9	0.02	<2	4	34
ZZ24388		10	1	0.50	10	1.84	482	<1	0.03	47	660	10	0.02	<2	5	34
ZZ24389		10	1	0.26	20	1.67	362	1	0.02	39	410	9	0.01	<2	4	30
ZZ24390		10	<1	0.20	10	1.02	301	1	0.02	32	340	12	0.02	<2	3	20
ZZ24391		10	1	0.11	30	0.83	336	1	0.02	26	410	11	0.02	<2	5	27
ZZ24392		10	<1	0.25	10	1.09	209	1	0.01	29	570	16	0.02	<2	3	20
ZZ24393		10	1	0.70	10	2.24	467	1	0.02	47	300	18	0.02	<2	4	19
ZZ24394		10	<1	0.14	<10	1.14	487	1	0.03	28	680	9	0.02	<2	2	24
ZZ24395		10	<1	0.12	10	0.85	270	1	0.02	25	450	11	0.02	<2	3	18
ZZ24396		10	1	0.68	20	1.82	497	1	0.03	43	1270	18	0.02	<2	4	31
ZZ24397		10	<1	0.10	20	0.64	373	2	0.02	24	370	11	0.03	<2	4	27
ZZ24398		10	<1	0.06	10	0.73	402	1	0.03	15	380	9	0.02	<2	6	30
ZZ24399		10	1	1.12	10	1.96	645	2	0.04	12	660	6	0.25	<2	7	34
ZZ24400		10	1	0.07	10	0.58	418	1	0.02	17	1000	9	0.03	<2	3	26
ZZ24401		10	<1	0.26	<10	1.02	221	1	0.06	17	1000	5	0.02	<2	5	40
ZZ24402		10	<1	0.09	10	0.67	233	1	0.03	24	530	9	0.03	<2	5	31
ZZ24403		10	<1	0.10	20	0.72	305	1	0.04	17	860	16	0.03	<2	8	37
ZZ24404		10	<1	0.24	10	0.99	494	4	0.02	24	780	13	0.08	<2	10	28
ZZ24405		10	<1	0.44	10	1.20	486	1	0.03	29	920	9	0.07	<2	5	29
ZZ24406		10	1	0.19	10	1.01	441	1	0.03	25	1310	8	0.07	<2	7	46
ZZ24407		10	1	0.11	10	0.82	459	1	0.04	20	850	8	0.04	<2	7	38
ZZ24408		10	<1	1.18	<10	2.59	531	1	0.05	18	720	3	0.07	<2	4	28
ZZ24409		10	<1	0.19	10	1.06	399	1	0.03	29	950	7	0.04	<2	5	32
ZZ24410		10	<1	0.11	10	0.70	306	1	0.03	22	590	9	0.03	<2	5	31
ZZ24411		10	1	0.10	10	0.71	476	2	0.04	20	680	8	0.04	<2	5	34
ZZ24412		10	<1	0.11	10	0.91	476	1	0.04	24	1120	6	0.05	<2	8	38
ZZ24413		10	1	0.08	10	0.75	285	1	0.03	22	640	6	0.04	<2	4	33
ZZ24414		<10	<1	0.08	10	0.80	369	1	0.01	23	610	6	<0.01	<2	3	31
ZZ24415		10	1	0.13	10	0.95	313	1	0.03	27	750	5	0.01	<2	3	18
ZZ24416		10	<1	0.18	10	1.04	495	1	0.01	29	340	4	<0.01	<2	6	28
ZZ24417		<10	1	0.55	10	0.93	785	1	0.02	22	550	4	0.03	<2	5	77
ZZ24418		10	<1	0.38	20	0.83	533	1	0.01	11	1020	16	0.01	<2	4	25
ZZ24419		10	<1	0.51	10	0.77	364	2	0.01	11	1150	16	0.02	<2	3	27
ZZ24420		10	<1	0.92	10	1.03	589	2	0.01	9	1380	13	0.07	<2	3	38

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VANCOUVER BC V6B 1L8

Finalized Date: 22- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165350

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ24381		<20	0.11	<10	<10	86	<10	56
ZZ24382		<20	0.15	<10	<10	83	<10	58
ZZ24383		<20	0.12	<10	<10	85	<10	66
ZZ24384		<20	0.14	<10	<10	88	<10	63
ZZ24385		<20	0.12	<10	<10	99	<10	81
ZZ24386		<20	0.12	<10	<10	74	<10	53
ZZ24387		<20	0.15	<10	<10	69	<10	61
ZZ24388		<20	0.20	<10	<10	78	<10	75
ZZ24389		<20	0.18	<10	<10	69	<10	68
ZZ24390		<20	0.14	<10	<10	74	<10	62
ZZ24391		<20	0.14	<10	<10	77	<10	60
ZZ24392		<20	0.10	<10	<10	45	<10	59
ZZ24393		<20	0.24	<10	<10	103	<10	90
ZZ24394		<20	0.17	<10	<10	73	<10	63
ZZ24395		<20	0.14	<10	<10	71	<10	55
ZZ24396		<20	0.20	<10	<10	81	<10	72
ZZ24397		<20	0.08	<10	<10	63	<10	61
ZZ24398		<20	0.11	<10	<10	82	<10	66
ZZ24399		<20	0.19	<10	<10	137	<10	139
ZZ24400		<20	0.10	<10	<10	74	<10	51
ZZ24401		<20	0.16	<10	<10	109	<10	38
ZZ24402		<20	0.13	<10	<10	84	<10	49
ZZ24403		<20	0.13	<10	<10	88	<10	62
ZZ24404		<20	0.12	<10	<10	101	<10	88
ZZ24405		<20	0.16	<10	<10	91	<10	67
ZZ24406		<20	0.08	<10	<10	83	<10	60
ZZ24407		<20	0.11	<10	<10	81	<10	55
ZZ24408		<20	0.32	<10	<10	178	<10	90
ZZ24409		<20	0.16	<10	<10	84	<10	65
ZZ24410		<20	0.14	<10	<10	75	<10	53
ZZ24411		<20	0.13	<10	<10	74	<10	47
ZZ24412		<20	0.10	<10	<10	85	<10	60
ZZ24413		<20	0.14	<10	<10	76	<10	60
ZZ24414		<20	0.13	<10	<10	68	<10	56
ZZ24415		<20	0.17	<10	<10	81	<10	52
ZZ24416		<20	0.12	<10	<10	82	<10	62
ZZ24417		<20	0.16	<10	<10	82	<10	62
ZZ24418		<20	0.16	<10	<10	74	<10	98
ZZ24419		<20	0.16	<10	<10	62	<10	106
ZZ24420		<20	0.23	<10	<10	67	<10	123

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Finalized Date: 22- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165350

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ24421		0.24	0.008	0.8	1.81	19	<10	280	0.6	<2	0.36	0.7	14	41	45	3.41
ZZ24422		0.30	0.004	0.6	1.40	13	<10	220	<0.5	<2	0.31	<0.5	7	38	38	2.97
ZZ24423		0.16	0.008	<0.2	3.00	2	<10	480	0.5	<2	0.58	<0.5	14	24	22	4.32
ZZ24424		0.24	0.003	0.4	2.07	7	<10	390	<0.5	<2	0.41	<0.5	15	33	35	3.55
ZZ24425		0.18	0.003	0.6	2.35	13	<10	250	0.5	<2	0.16	0.8	9	42	25	3.39
ZZ24426		0.26	0.002	<0.2	2.07	8	<10	1680	0.7	<2	0.25	<0.5	11	33	75	2.91
ZZ24427		0.30	0.003	<0.2	2.74	6	<10	450	0.5	<2	0.29	<0.5	18	28	34	4.36
ZZ24428		0.26	0.001	<0.2	2.29	6	<10	450	<0.5	<2	0.28	<0.5	10	26	29	3.67
ZZ24429		0.22	0.002	0.3	2.33	4	<10	450	<0.5	<2	0.43	<0.5	15	31	50	4.74
ZZ24430		0.18	0.006	0.5	1.71	5	<10	450	0.5	<2	0.71	<0.5	13	24	27	3.41
ZZ24431		0.24	0.005	<0.2	1.75	4	<10	460	<0.5	<2	0.65	<0.5	12	30	22	3.23
ZZ24432		0.18	0.003	0.2	1.78	7	<10	430	0.5	<2	0.97	<0.5	13	32	29	3.44
ZZ24433		0.18	0.002	0.2	1.85	6	<10	490	<0.5	<2	1.05	<0.5	11	36	29	3.17
ZZ24434		0.24	0.002	<0.2	2.79	6	<10	280	0.5	<2	0.57	<0.5	13	64	42	4.31
ZZ24435		0.20	0.002	<0.2	3.98	2	<10	970	0.5	<2	0.44	<0.5	13	28	56	5.32
ZZ24436		0.22	0.002	<0.2	2.44	9	<10	390	0.5	<2	0.43	<0.5	16	37	37	4.55
ZZ24437		0.30	<0.001	0.2	2.41	3	<10	470	<0.5	<2	1.02	<0.5	19	57	56	4.90
ZZ24438		0.16	0.003	0.3	2.01	12	<10	450	<0.5	<2	1.60	<0.5	34	33	50	4.02
ZZ24439		0.26	0.003	0.3	2.36	8	<10	470	0.5	<2	0.77	<0.5	17	47	50	4.18
ZZ24440		0.30	0.002	0.2	1.68	18	<10	210	<0.5	<2	0.41	<0.5	11	26	16	3.73

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Finalized Date: 22- SEP- 2011
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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165350

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ24421		<10	<1	0.11	10	0.48	886	2	<0.01	56	700	7	<0.01	<2	6	33
ZZ24422		<10	<1	0.22	10	0.63	248	3	0.01	27	770	7	0.09	<2	3	28
ZZ24423		10	<1	1.25	<10	1.82	462	<1	0.02	12	2110	4	<0.01	<2	1	33
ZZ24424		10	<1	0.28	10	0.80	596	1	0.01	20	970	9	<0.01	<2	4	30
ZZ24425		10	<1	0.09	10	0.61	533	1	0.01	24	280	217	<0.01	<2	3	15
ZZ24426		10	<1	0.14	20	0.72	607	1	0.02	18	360	266	0.02	2	4	37
ZZ24427		10	1	0.87	10	1.44	654	<1	0.01	15	640	22	<0.01	<2	3	19
ZZ24428		10	<1	0.31	10	0.71	457	1	<0.01	13	460	28	<0.01	<2	3	20
ZZ24429		10	<1	1.09	20	1.25	611	1	0.01	14	1410	21	0.10	<2	3	44
ZZ24430		<10	<1	0.29	30	0.76	840	2	0.01	12	710	12	0.03	<2	7	35
ZZ24431		10	<1	0.23	20	0.77	540	1	0.01	14	740	9	<0.01	<2	5	31
ZZ24432		<10	<1	0.23	20	0.86	680	1	0.02	18	920	7	0.02	<2	7	42
ZZ24433		10	<1	0.28	10	1.04	443	1	0.02	18	970	5	0.03	<2	5	79
ZZ24434		10	<1	0.49	10	1.89	529	2	0.01	30	890	4	0.06	<2	5	39
ZZ24435		10	<1	1.55	10	2.78	941	2	0.02	16	910	<2	0.15	2	6	35
ZZ24436		10	<1	0.38	10	1.18	559	1	0.01	21	1070	4	<0.01	<2	6	24
ZZ24437		10	<1	0.49	10	1.69	762	1	0.02	28	1300	3	0.01	<2	9	30
ZZ24438		<10	<1	0.26	20	1.05	711	1	0.04	18	2820	7	0.05	<2	7	63
ZZ24439		10	<1	0.73	20	1.70	750	1	0.01	26	2250	5	0.03	<2	5	44
ZZ24440		10	<1	0.34	10	0.88	462	2	<0.01	12	1100	8	<0.01	<2	6	17

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CERTIFICATE OF ANALYSIS WH11165350

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ24421		<20	0.07	<10	<10	70	<10	175
ZZ24422		<20	0.09	<10	<10	67	<10	93
ZZ24423		<20	0.29	<10	<10	71	<10	190
ZZ24424		<20	0.15	<10	<10	75	<10	104
ZZ24425		<20	0.11	<10	<10	70	<10	246
ZZ24426		<20	0.11	<10	<10	52	<10	287
ZZ24427		<20	0.28	<10	<10	88	<10	213
ZZ24428		<20	0.19	<10	<10	74	<10	119
ZZ24429		<20	0.24	<10	<10	75	<10	208
ZZ24430		<20	0.14	<10	<10	69	<10	90
ZZ24431		<20	0.13	<10	<10	68	<10	74
ZZ24432		<20	0.11	<10	<10	68	<10	83
ZZ24433		<20	0.13	<10	<10	76	<10	74
ZZ24434		<20	0.19	<10	<10	101	<10	141
ZZ24435		<20	0.26	<10	<10	129	<10	78
ZZ24436		<20	0.15	<10	<10	105	<10	96
ZZ24437		<20	0.18	<10	<10	121	<10	100
ZZ24438		<20	0.13	<10	<10	109	<10	73
ZZ24439		<20	0.20	<10	<10	93	<10	122
ZZ24440		<20	0.12	<10	<10	71	<10	92

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Finalized Date: 23- SEP- 2011
Account: F

CERTIFICATE WH11165351

Project: Arcus - Dan Man

P.O. No.:

This report is for 210 Soil samples submitted to our lab in Whitehorse, YT, Canada on 20- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH11165351

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ21791		0.20	0.001	0.3	1.71	8	<10	340	0.7	<2	0.45	<0.5	28	45	47	3.10
ZZ21792		0.22	0.002	0.2	1.59	7	<10	440	0.5	<2	0.35	<0.5	13	42	31	3.00
ZZ21793		0.20	0.001	0.5	1.59	11	<10	460	0.6	<2	0.30	0.5	15	48	53	3.50
ZZ21794		0.16	0.003	0.4	1.39	17	<10	410	0.6	<2	0.48	0.7	12	64	60	3.37
ZZ21795		0.18	0.002	0.3	1.16	12	<10	410	<0.5	<2	0.36	<0.5	9	37	21	2.70
ZZ21796		0.16	0.001	0.2	1.68	8	<10	580	0.5	<2	0.65	0.8	18	63	38	2.95
ZZ21797		0.18	0.002	0.3	1.65	25	<10	630	0.8	<2	0.48	<0.5	15	55	45	3.95
ZZ21798		0.20	0.002	0.2	1.49	11	<10	290	<0.5	<2	0.33	<0.5	43	330	57	3.09
ZZ21799		0.18	0.003	0.2	1.58	13	<10	390	0.5	<2	0.49	<0.5	16	59	33	2.99
ZZ21800		0.24	0.002	0.2	1.59	15	<10	330	0.6	3	0.37	<0.5	14	55	37	3.01
ZZ21801		0.16	0.004	0.2	1.31	19	<10	260	<0.5	3	0.53	0.5	38	232	25	2.58
ZZ21802		0.18	0.004	0.2	1.35	28	<10	260	<0.5	3	0.52	<0.5	28	175	30	2.84
ZZ21803		0.12	0.002	0.2	1.25	7	<10	500	<0.5	2	0.57	0.8	22	74	21	2.35
ZZ21804		0.12	0.001	0.2	0.92	3	<10	510	<0.5	2	0.38	0.5	9	35	12	1.49
ZZ21805		0.18	0.006	0.3	0.86	12	<10	460	<0.5	2	1.32	1.5	9	24	27	2.19
ZZ21806		0.18	0.003	0.2	1.49	18	<10	230	0.5	2	0.69	<0.5	37	137	25	2.89
ZZ21807		0.20	0.005	0.2	1.80	38	<10	470	0.8	2	0.36	<0.5	27	123	60	4.18
ZZ21808		0.12	0.001	0.3	1.43	11	<10	460	0.5	3	0.84	0.8	17	75	36	2.78
ZZ21809		0.20	0.001	0.5	1.49	12	<10	360	<0.5	3	0.27	<0.5	11	32	17	2.69
ZZ21810		0.16	0.007	0.3	1.72	8	<10	670	<0.5	2	0.94	<0.5	10	104	33	2.39
ZZ21811		0.12	0.006	0.2	1.69	12	<10	350	<0.5	2	1.14	1.5	13	137	38	2.52
ZZ21812		0.20	0.010	1.0	2.85	18	<10	490	0.7	2	0.91	2.9	23	388	43	4.11
ZZ21813		0.16	0.004	0.2	1.73	12	<10	230	<0.5	4	0.75	<0.5	12	44	30	3.02
ZZ21814		0.18	0.002	<0.2	2.20	8	<10	230	<0.5	2	0.55	<0.5	13	42	22	3.29
ZZ21815		0.16	0.001	0.2	2.36	9	<10	380	<0.5	2	0.44	<0.5	18	39	29	3.38
ZZ21816		0.14	0.002	<0.2	1.55	4	<10	160	<0.5	2	0.33	<0.5	9	24	21	2.50
ZZ21817		0.22	0.002	<0.2	2.08	8	<10	160	<0.5	3	0.22	<0.5	10	45	22	3.08
ZZ21818		0.20	0.002	<0.2	2.03	7	<10	250	<0.5	3	0.61	<0.5	11	38	23	2.85
ZZ21819		0.20	0.003	0.6	1.34	8	<10	220	<0.5	2	1.20	0.5	10	26	29	2.27
ZZ21820		0.20	0.002	0.3	1.63	11	<10	300	<0.5	2	0.40	<0.5	9	89	22	2.65
ZZ21821		0.16	0.007	<0.2	1.84	8	<10	430	<0.5	3	0.38	0.5	10	85	25	2.74
ZZ21822		0.20	0.002	0.3	1.75	13	<10	270	<0.5	2	0.69	0.5	11	53	22	2.73
ZZ21823		0.24	0.002	0.2	1.83	9	<10	350	<0.5	2	0.43	<0.5	11	85	21	2.79
ZZ21824		0.28	0.015	0.5	2.35	25	<10	750	0.7	2	0.67	0.5	15	118	46	3.50
ZZ21825		0.26	0.002	0.2	1.93	15	<10	360	0.5	3	0.48	<0.5	15	114	35	3.49
ZZ21826		0.18	0.007	0.9	2.44	19	<10	220	0.5	5	0.32	0.8	16	28	66	6.04
ZZ21827		0.18	0.007	0.3	1.56	11	<10	310	<0.5	2	0.73	0.6	13	114	30	2.53
ZZ21828		0.22	0.009	0.6	1.78	17	<10	500	<0.5	3	0.82	0.7	11	102	35	2.75
ZZ21829		0.22	0.012	0.2	1.94	11	<10	460	<0.5	3	0.47	0.6	15	128	26	3.02
ZZ21830		0.18	0.027	0.3	1.86	14	<10	490	<0.5	2	0.68	0.8	12	152	26	2.79

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 23- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165351

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ21791		10	<1	0.35	20	0.62	839	3	0.01	69	660	6	0.02	<2	6	32
ZZ21792		<10	<1	0.27	10	0.60	647	1	0.01	34	390	7	0.01	<2	6	29
ZZ21793		<10	<1	0.43	20	0.62	705	3	0.01	54	470	9	0.06	<2	6	30
ZZ21794		10	<1	0.31	20	0.75	339	4	0.01	95	890	7	0.05	<2	3	33
ZZ21795		<10	<1	0.13	10	0.41	199	2	0.01	35	270	6	0.01	<2	3	25
ZZ21796		<10	1	0.36	10	0.69	881	2	0.01	62	830	5	0.02	<2	4	39
ZZ21797		<10	<1	0.34	20	0.63	558	3	0.01	69	990	8	0.01	<2	5	27
ZZ21798		<10	<1	0.10	10	2.49	536	<1	0.02	531	230	3	<0.01	<2	4	26
ZZ21799		<10	<1	0.36	20	0.70	582	1	0.01	73	590	6	0.02	<2	5	34
ZZ21800		10	<1	0.38	20	0.69	493	1	0.02	60	520	8	0.02	<2	6	27
ZZ21801		<10	<1	0.19	10	3.22	711	1	0.03	563	490	6	0.02	<2	4	33
ZZ21802		<10	<1	0.24	10	2.04	531	1	0.03	408	630	6	0.03	<2	4	32
ZZ21803		<10	<1	0.14	10	0.95	957	1	0.03	153	480	6	0.02	<2	3	41
ZZ21804		<10	<1	0.09	<10	0.44	533	<1	0.04	60	1190	4	0.02	<2	2	32
ZZ21805		<10	<1	0.08	10	0.81	430	2	0.03	39	1030	9	0.08	<2	3	61
ZZ21806		<10	<1	0.27	10	2.08	785	1	0.03	440	500	7	0.03	<2	4	34
ZZ21807		10	<1	0.43	40	0.81	855	3	0.02	153	460	8	0.01	2	9	21
ZZ21808		<10	<1	0.51	20	0.80	765	2	0.03	101	900	6	0.06	<2	4	44
ZZ21809		10	1	0.15	10	0.53	760	1	0.02	19	190	9	0.01	<2	3	20
ZZ21810		<10	1	0.12	20	0.99	277	1	0.03	43	660	6	0.04	<2	4	41
ZZ21811		10	<1	0.19	10	1.21	494	1	0.04	50	710	15	0.05	<2	4	36
ZZ21812		10	<1	0.34	30	2.63	793	2	0.02	116	1630	77	0.01	<2	9	31
ZZ21813		<10	<1	0.06	10	0.71	548	1	0.04	23	600	5	0.02	<2	6	29
ZZ21814		10	<1	0.06	10	0.86	424	1	0.04	20	370	6	0.01	<2	5	27
ZZ21815		10	<1	0.06	10	0.87	715	1	0.03	21	200	6	0.01	<2	4	21
ZZ21816		<10	<1	0.05	<10	0.58	285	1	0.02	13	410	4	0.01	<2	3	17
ZZ21817		10	<1	0.05	<10	0.88	277	1	0.02	16	280	5	<0.01	<2	4	15
ZZ21818		10	<1	0.07	10	0.71	295	1	0.03	19	280	7	0.01	<2	6	24
ZZ21819		<10	<1	0.07	10	0.56	643	1	0.03	17	650	24	0.04	<2	3	32
ZZ21820		10	<1	0.36	10	1.05	242	1	0.02	32	520	14	0.01	<2	3	21
ZZ21821		10	<1	0.10	10	0.83	266	1	0.03	37	260	9	0.01	<2	4	25
ZZ21822		10	<1	0.06	10	0.76	265	1	0.04	24	540	16	0.02	<2	5	29
ZZ21823		10	1	0.07	10	0.92	291	1	0.03	37	330	12	0.01	<2	4	26
ZZ21824		10	<1	0.51	20	1.46	749	1	0.03	50	790	39	0.02	<2	6	31
ZZ21825		10	<1	0.18	10	1.16	327	2	0.02	61	370	10	0.01	<2	6	26
ZZ21826		10	<1	0.14	10	0.90	868	4	0.02	16	1140	73	0.07	<2	10	37
ZZ21827		10	<1	0.19	10	1.25	365	2	0.03	41	1140	19	0.05	<2	4	35
ZZ21828		10	<1	0.21	20	1.02	342	1	0.03	42	630	46	0.03	<2	5	41
ZZ21829		10	<1	0.19	10	1.26	306	1	0.03	51	620	16	0.01	<2	4	27
ZZ21830		10	<1	0.11	10	1.29	220	2	0.02	52	450	17	0.01	<2	4	29

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North Vancouver BC V7H 0A7
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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165351

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ21791		<20	0.08	<10	<10	81	<10	127
ZZ21792		<20	0.09	<10	<10	70	<10	94
ZZ21793		<20	0.09	<10	<10	82	<10	148
ZZ21794		<20	0.07	<10	<10	81	<10	139
ZZ21795		<20	0.07	<10	<10	61	<10	61
ZZ21796		<20	0.09	<10	<10	63	<10	115
ZZ21797		<20	0.07	<10	<10	87	<10	136
ZZ21798		<20	0.06	<10	<10	46	<10	53
ZZ21799		<20	0.08	<10	<10	69	<10	98
ZZ21800		<20	0.10	<10	<10	69	<10	82
ZZ21801		<20	0.06	<10	<10	38	<10	56
ZZ21802		<20	0.06	<10	<10	45	<10	63
ZZ21803		<20	0.05	<10	<10	34	<10	112
ZZ21804		<20	0.05	<10	<10	25	<10	119
ZZ21805		<20	0.04	<10	<10	38	<10	152
ZZ21806		<20	0.10	<10	<10	43	<10	65
ZZ21807		<20	0.09	<10	<10	94	<10	100
ZZ21808		<20	0.08	<10	<10	53	<10	105
ZZ21809		<20	0.10	<10	<10	61	<10	47
ZZ21810		<20	0.10	<10	<10	54	<10	48
ZZ21811		<20	0.11	<10	<10	57	<10	69
ZZ21812		<20	0.18	<10	<10	101	<10	224
ZZ21813		<20	0.09	<10	<10	63	<10	53
ZZ21814		<20	0.10	<10	<10	69	<10	53
ZZ21815		<20	0.11	<10	<10	75	<10	45
ZZ21816		<20	0.07	<10	<10	57	<10	31
ZZ21817		<20	0.10	<10	<10	74	<10	43
ZZ21818		<20	0.10	<10	<10	68	<10	46
ZZ21819		<20	0.06	<10	<10	47	<10	49
ZZ21820		<20	0.14	<10	<10	68	<10	51
ZZ21821		<20	0.12	<10	<10	65	<10	43
ZZ21822		<20	0.09	<10	<10	61	<10	64
ZZ21823		<20	0.12	<10	<10	67	<10	50
ZZ21824		<20	0.14	<10	<10	74	<10	118
ZZ21825		<20	0.11	<10	<10	81	<10	63
ZZ21826		<20	0.08	<10	<10	122	<10	168
ZZ21827		<20	0.10	<10	<10	57	<10	86
ZZ21828		<20	0.11	<10	<10	58	<10	100
ZZ21829		<20	0.13	<10	<10	68	<10	74
ZZ21830		<20	0.15	<10	<10	71	<10	77

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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11165351

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ21831		0.22	0.015	0.4	1.72	17	<10	350	<0.5	3	0.91	0.9	9	80	31	2.55
ZZ21832		0.18	0.002	0.2	1.63	10	<10	270	<0.5	3	0.95	<0.5	10	30	27	2.59
ZZ21833		0.18	0.015	0.2	1.49	9	<10	220	<0.5	2	0.66	0.5	10	26	23	2.48
ZZ21834		0.26	0.008	0.2	1.52	8	<10	220	<0.5	<2	0.80	<0.5	10	27	24	2.53
ZZ21835		0.18	0.006	0.5	1.30	82	<10	570	1.1	3	0.56	0.8	14	99	49	3.42
ZZ21836		0.16	0.015	0.6	1.38	166	<10	860	1.7	<2	0.61	1.3	19	108	46	4.89
ZZ21837		0.20	0.007	0.3	2.16	9	<10	220	<0.5	<2	0.22	<0.5	14	197	21	2.92
ZZ21838		0.14	0.021	0.5	2.11	14	<10	710	<0.5	<2	0.71	1.2	16	158	63	3.32
ZZ21839		0.18	0.014	0.5	2.51	12	<10	440	0.6	<2	0.52	0.5	16	110	46	3.91
ZZ21840		0.16	0.006	0.5	2.04	10	<10	120	<0.5	<2	0.31	1.1	16	38	39	3.84
ZZ21841		0.22	0.012	1.2	1.81	9	<10	160	<0.5	<2	0.72	0.7	13	33	61	2.73
ZZ21842		0.28	0.004	0.5	2.20	8	<10	120	<0.5	<2	0.84	4.1	14	46	68	3.61
ZZ21843		0.22	0.003	0.4	1.97	10	<10	180	<0.5	<2	0.30	0.7	11	35	26	2.96
ZZ21844		0.20	0.004	0.5	1.64	3	<10	140	<0.5	<2	0.56	0.9	10	24	41	2.70
ZZ21845		0.20	0.007	0.4	1.87	7	<10	120	<0.5	<2	0.47	1.9	11	30	46	3.00
ZZ21846		0.20	0.012	0.8	1.87	9	<10	140	<0.5	<2	0.28	0.5	6	28	14	2.93
ZZ21847		0.24	0.011	0.6	2.29	12	<10	150	<0.5	<2	0.36	<0.5	8	34	25	3.51
ZZ21848		0.20	0.001	0.4	1.80	13	<10	110	<0.5	<2	0.28	0.8	9	31	31	3.87
ZZ21849		0.18	0.002	0.6	2.44	15	<10	200	<0.5	<2	0.21	0.6	10	39	24	3.67
ZZ21850		0.16	0.003	0.2	1.85	12	<10	190	<0.5	<2	0.34	<0.5	9	31	27	3.18
ZZ21851		0.20	0.003	0.3	1.96	3	<10	410	<0.5	<2	0.50	<0.5	16	39	31	3.25
ZZ21852		0.14	0.001	<0.2	1.72	7	<10	300	<0.5	<2	0.24	<0.5	16	28	23	2.95
ZZ21853		0.14	0.005	0.2	1.65	5	<10	370	<0.5	<2	0.30	<0.5	16	28	25	2.85
ZZ21854		0.28	0.001	0.2	2.04	6	<10	340	<0.5	<2	0.37	<0.5	14	37	28	3.35
ZZ21855		0.28	0.007	0.2	2.19	10	<10	330	0.5	<2	0.45	<0.5	19	43	36	3.54
ZZ21856		0.18	0.002	0.2	1.90	9	<10	440	<0.5	<2	0.43	<0.5	17	37	28	3.27
ZZ21857		0.28	0.012	0.2	1.61	10	<10	330	<0.5	<2	0.81	<0.5	14	30	37	3.68
ZZ21858		0.20	0.004	0.4	1.70	11	<10	340	0.5	<2	0.85	<0.5	13	23	46	3.95
ZZ21859		0.24	0.003	0.2	1.65	7	<10	300	<0.5	<2	0.58	<0.5	12	31	25	3.12
ZZ21860		0.24	0.007	<0.2	1.56	8	<10	300	<0.5	<2	0.53	<0.5	12	29	28	2.78
ZZ21861		0.28	0.015	0.4	1.84	11	<10	710	<0.5	<2	0.99	1.6	14	135	48	2.90
ZZ21862		0.20	0.030	0.4	2.11	86	<10	270	0.5	<2	0.47	1.7	26	56	58	5.07
ZZ21863		0.18	0.040	1.3	1.81	24	<10	220	0.6	<2	1.04	2.6	24	33	81	3.94
ZZ21864		0.10	0.004	0.3	1.90	6	<10	630	<0.5	<2	0.98	<0.5	13	116	32	2.68
ZZ21865		0.26	0.005	0.5	2.35	24	<10	560	<0.5	<2	0.41	<0.5	17	201	34	3.96
ZZ21866		0.16	0.004	0.3	1.90	8	<10	650	<0.5	<2	1.41	<0.5	11	83	34	2.65
ZZ21867		0.16	0.005	0.2	1.80	9	<10	660	<0.5	<2	0.98	0.6	14	133	45	2.58
ZZ21868		0.24	0.003	0.2	1.77	10	<10	310	<0.5	<2	0.36	<0.5	11	89	22	2.83
ZZ21869		0.28	0.011	0.2	1.89	7	<10	410	0.5	<2	0.66	0.5	12	80	31	2.77
ZZ21870		0.26	0.003	0.2	1.58	7	<10	240	<0.5	<2	0.41	<0.5	9	30	22	2.86

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CERTIFICATE OF ANALYSIS WH11165351

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ21831		10	<1	0.10	10	0.92	323	1	0.03	29	780	25	0.03	<2	5	33
ZZ21832		<10	<1	0.07	10	0.62	418	1	0.04	20	520	7	0.04	<2	4	37
ZZ21833		<10	<1	0.06	10	0.55	424	1	0.03	16	540	7	0.03	<2	4	28
ZZ21834		<10	<1	0.05	10	0.59	348	1	0.04	17	580	7	0.02	<2	4	32
ZZ21835		<10	<1	0.30	20	0.69	425	2	0.03	49	970	43	0.04	<2	8	39
ZZ21836		<10	<1	0.53	20	0.89	963	3	0.01	68	1710	101	0.08	3	10	34
ZZ21837		10	<1	0.13	<10	1.50	224	1	0.01	74	280	7	<0.01	<2	2	15
ZZ21838		10	<1	0.24	10	1.58	329	<1	0.01	59	920	42	0.04	<2	5	40
ZZ21839		10	<1	0.36	20	1.50	447	1	0.02	48	630	23	0.01	<2	6	34
ZZ21840		10	<1	0.08	10	0.66	537	3	0.02	18	330	30	0.01	<2	4	26
ZZ21841		10	<1	0.06	10	0.60	234	2	0.02	17	1070	160	0.01	<2	4	72
ZZ21842		10	<1	0.05	<10	1.21	300	1	0.03	23	1980	94	<0.01	<2	5	43
ZZ21843		<10	<1	0.05	10	0.56	306	1	0.01	19	410	24	<0.01	<2	4	25
ZZ21844		10	<1	0.06	<10	0.56	343	6	0.03	13	990	19	<0.01	<2	4	45
ZZ21845		10	<1	0.04	10	0.64	209	3	0.01	18	870	9	<0.01	<2	5	43
ZZ21846		10	<1	0.05	10	0.43	184	1	0.01	12	540	69	0.01	<2	4	27
ZZ21847		10	<1	0.04	10	0.77	240	<1	0.02	16	500	17	0.02	<2	6	47
ZZ21848		10	<1	0.06	10	0.58	232	1	0.02	15	1060	13	0.01	<2	4	18
ZZ21849		10	<1	0.05	10	0.57	286	1	0.01	20	470	37	<0.01	<2	3	20
ZZ21850		10	<1	0.05	10	0.55	225	1	0.01	15	860	14	<0.01	<2	4	26
ZZ21851		10	<1	0.14	10	0.63	397	1	0.02	24	580	5	<0.01	<2	4	29
ZZ21852		10	<1	0.11	10	0.63	310	1	0.02	17	420	4	<0.01	<2	3	17
ZZ21853		<10	<1	0.15	10	0.63	276	1	0.02	17	490	4	<0.01	<2	3	20
ZZ21854		10	<1	0.13	10	0.75	232	1	0.02	21	410	5	<0.01	<2	4	23
ZZ21855		10	<1	0.17	10	0.83	341	1	0.02	25	360	4	<0.01	<2	5	28
ZZ21856		10	<1	0.17	10	0.74	356	1	0.02	21	420	4	<0.01	<2	4	25
ZZ21857		<10	<1	0.16	20	0.63	415	<1	0.03	19	830	9	0.01	<2	6	36
ZZ21858		<10	<1	0.40	50	0.71	436	1	0.03	14	1360	18	0.03	<2	7	38
ZZ21859		<10	<1	0.14	10	0.62	531	<1	0.02	21	560	13	<0.01	<2	5	37
ZZ21860		<10	<1	0.13	10	0.62	409	1	0.02	19	780	9	<0.01	<2	4	36
ZZ21861		10	<1	0.28	10	1.36	483	1	0.02	58	920	31	0.04	<2	5	41
ZZ21862		10	<1	0.32	20	1.45	1195	8	0.01	41	1150	243	0.05	<2	6	26
ZZ21863		<10	<1	0.12	20	0.78	1090	7	0.05	23	1060	69	0.18	<2	7	59
ZZ21864		<10	<1	0.19	10	1.17	493	1	0.02	43	690	13	0.04	<2	5	39
ZZ21865		10	<1	0.39	10	1.74	345	1	0.02	77	570	19	0.01	<2	5	22
ZZ21866		<10	<1	0.12	10	1.01	381	<1	0.03	39	700	10	0.05	<2	5	54
ZZ21867		<10	<1	0.19	10	1.25	569	<1	0.02	53	840	11	0.02	<2	5	35
ZZ21868		<10	<1	0.09	10	0.78	338	<1	0.01	35	270	9	<0.01	<2	3	25
ZZ21869		<10	<1	0.07	10	0.89	414	<1	0.03	36	550	16	<0.01	<2	6	33
ZZ21870		10	<1	0.10	10	0.58	259	1	0.02	16	220	6	<0.01	<2	4	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 23- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165351

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ21831		<20	0.10	<10	<10	59	<10	92
ZZ21832		<20	0.09	<10	<10	56	<10	48
ZZ21833		<20	0.07	<10	<10	53	<10	42
ZZ21834		<20	0.07	<10	<10	54	<10	42
ZZ21835		<20	0.07	<10	<10	54	<10	118
ZZ21836		<20	0.05	<10	<10	64	<10	224
ZZ21837		<20	0.15	<10	<10	73	<10	50
ZZ21838		<20	0.16	<10	<10	80	<10	126
ZZ21839		<20	0.16	<10	<10	85	<10	120
ZZ21840		<20	0.12	<10	<10	100	<10	166
ZZ21841		<20	0.09	<10	<10	65	<10	102
ZZ21842		<20	0.15	<10	<10	94	<10	328
ZZ21843		<20	0.09	<10	<10	73	<10	87
ZZ21844		<20	0.09	<10	<10	72	<10	73
ZZ21845		<20	0.11	<10	<10	90	<10	150
ZZ21846		<20	0.08	<10	<10	78	<10	81
ZZ21847		<20	0.11	<10	<10	91	<10	68
ZZ21848		<20	0.11	<10	<10	98	<10	69
ZZ21849		<20	0.09	<10	<10	85	<10	84
ZZ21850		<20	0.12	<10	<10	97	<10	50
ZZ21851		<20	0.10	<10	<10	77	<10	54
ZZ21852		<20	0.11	<10	<10	68	<10	45
ZZ21853		<20	0.11	<10	<10	67	<10	46
ZZ21854		<20	0.11	<10	<10	81	<10	51
ZZ21855		<20	0.12	<10	<10	85	<10	55
ZZ21856		<20	0.12	<10	<10	79	<10	53
ZZ21857		<20	0.11	<10	<10	104	<10	60
ZZ21858		<20	0.12	<10	<10	84	<10	95
ZZ21859		<20	0.11	<10	<10	70	<10	67
ZZ21860		<20	0.11	<10	<10	64	<10	69
ZZ21861		<20	0.12	<10	<10	68	<10	116
ZZ21862		<20	0.08	<10	<10	87	<10	434
ZZ21863		<20	0.08	<10	<10	81	<10	194
ZZ21864		<20	0.11	<10	<10	61	<10	68
ZZ21865		<20	0.19	<10	<10	92	<10	77
ZZ21866		<20	0.09	<10	<10	58	<10	63
ZZ21867		<20	0.11	<10	<10	57	<10	67
ZZ21868		<20	0.12	<10	<10	65	<10	49
ZZ21869		<20	0.09	<10	<10	61	<10	63
ZZ21870		<20	0.09	<10	<10	67	<10	41

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Finalized Date: 23- SEP- 2011
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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165351

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ21871		0.20	0.005	<0.2	1.80	7	<10	250	<0.5	<2	0.51	<0.5	11	37	36	3.03
ZZ21872		0.18	0.008	<0.2	1.80	8	<10	230	<0.5	<2	0.50	<0.5	12	39	41	3.08
ZZ21873		0.20	0.003	0.2	1.72	8	<10	210	<0.5	<2	0.47	<0.5	11	35	35	2.80
ZZ21874		0.18	0.002	<0.2	1.60	5	<10	220	<0.5	<2	0.51	<0.5	9	33	31	2.71
ZZ21875		0.14	0.009	<0.2	1.63	7	<10	220	<0.5	<2	0.49	<0.5	12	36	34	2.89
ZZ21876		0.28	0.001	<0.2	1.65	5	<10	210	<0.5	<2	0.46	<0.5	10	34	33	2.75
ZZ21877		0.20	0.005	<0.2	1.63	8	<10	250	<0.5	<2	0.50	<0.5	12	36	36	2.86
ZZ21878		0.26	0.005	0.2	1.64	8	<10	230	<0.5	<2	0.45	<0.5	10	34	33	2.78
ZZ21879		0.16	0.004	<0.2	1.46	4	<10	190	<0.5	<2	0.40	<0.5	9	31	33	2.56
ZZ21880		0.18	0.002	<0.2	1.52	6	<10	200	<0.5	<2	0.47	<0.5	8	31	30	2.62
ZZ21881		0.28	0.002	0.3	1.85	7	<10	150	<0.5	<2	0.50	<0.5	12	33	34	3.22
ZZ21882		0.26	0.005	0.3	1.79	7	<10	210	<0.5	<2	0.52	<0.5	9	30	30	2.84
ZZ21883		0.20	0.013	0.2	1.86	8	<10	250	<0.5	<2	0.55	<0.5	11	30	24	3.06
ZZ21884		0.24	0.010	0.3	1.68	7	<10	410	<0.5	<2	0.97	<0.5	15	30	43	2.88
ZZ21885		0.20	0.001	<0.2	2.66	44	<10	370	<0.5	<2	0.37	<0.5	23	199	85	5.62
ZZ21886		0.18	0.002	0.2	1.23	6	<10	370	<0.5	<2	0.33	<0.5	11	55	18	2.14
ZZ21887		0.12	0.003	0.3	0.70	3	<10	150	<0.5	<2	0.20	<0.5	4	26	8	1.14
ZZ21888		0.12	0.006	0.6	2.01	9	<10	910	0.6	<2	0.77	<0.5	14	49	87	3.04
ZZ21889		0.16	0.003	0.2	2.07	8	<10	270	0.5	<2	0.51	<0.5	11	73	24	3.12
ZZ21890		0.22	0.003	<0.2	1.78	3	<10	240	<0.5	<2	0.41	<0.5	10	74	18	2.77
ZZ21891		0.16	0.002	0.4	1.69	5	<10	600	<0.5	<2	0.43	<0.5	13	118	30	2.43
ZZ21892		0.16	0.005	<0.2	2.64	7	<10	250	<0.5	<2	0.20	<0.5	12	66	19	3.10
ZZ21893		0.18	0.003	0.2	2.26	11	<10	430	0.5	<2	0.25	<0.5	10	54	28	3.32
ZZ21894		0.20	0.003	<0.2	2.27	13	<10	440	<0.5	<2	0.30	<0.5	11	33	19	3.59
ZZ21895		0.14	0.002	0.2	2.23	10	<10	230	<0.5	<2	0.21	<0.5	12	39	20	3.52
ZZ21896		0.22	0.002	0.2	1.71	8	<10	190	<0.5	<2	0.20	<0.5	7	25	16	2.81
ZZ21897		0.20	0.001	1.0	1.70	11	<10	220	<0.5	<2	0.44	<0.5	8	27	25	2.82
ZZ21898		0.20	0.003	0.3	1.77	11	<10	210	<0.5	<2	0.39	<0.5	9	32	23	2.80
ZZ21899		0.24	0.003	0.3	1.89	5	<10	300	<0.5	<2	0.68	<0.5	12	35	44	3.23
ZZ21900		0.28	0.005	0.2	1.96	8	<10	190	0.5	<2	0.44	<0.5	13	51	30	3.39
ZZ21901		0.16	0.005	0.3	1.63	7	<10	280	<0.5	<2	0.42	<0.5	10	31	32	2.87
ZZ21902		0.18	0.006	0.3	1.73	8	<10	430	<0.5	<2	0.50	<0.5	12	31	24	3.29
ZZ21903		0.16	0.001	0.3	1.68	7	<10	300	<0.5	<2	0.39	<0.5	19	30	21	3.05
ZZ21904		0.24	0.082	<0.2	2.05	11	<10	220	<0.5	<2	0.24	<0.5	11	34	18	3.21
ZZ21905		0.22	0.003	<0.2	1.84	8	<10	240	0.5	<2	0.43	<0.5	12	39	25	2.68
ZZ21906		0.24	0.002	0.2	2.94	6	<10	300	<0.5	<2	0.44	<0.5	22	311	37	5.37
ZZ21907		0.22	0.001	0.3	2.02	10	<10	320	<0.5	<2	0.36	0.5	11	26	27	3.79
ZZ21908		0.22	0.002	0.3	1.52	8	<10	240	<0.5	<2	0.20	0.7	9	17	23	2.95
ZZ21909		0.18	0.001	0.3	1.94	6	<10	290	0.5	<2	0.26	<0.5	8	16	38	4.27
ZZ21910		0.20	0.002	<0.2	1.45	<2	<10	190	<0.5	<2	0.56	<0.5	18	38	29	2.05

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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11165351

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ21871		10	<1	0.11	10	0.78	295	1	0.02	19	530	5	<0.01	<2	4	31
ZZ21872		<10	<1	0.11	10	0.82	296	1	0.01	26	520	5	0.11	<2	4	30
ZZ21873		<10	<1	0.10	10	0.73	259	1	0.01	18	470	4	0.19	<2	3	28
ZZ21874		10	<1	0.13	10	0.67	242	1	0.01	16	380	5	0.09	<2	3	31
ZZ21875		<10	<1	0.08	10	0.79	303	1	0.01	20	620	4	0.01	<2	4	27
ZZ21876		<10	<1	0.09	10	0.73	238	1	0.01	18	490	4	<0.01	<2	3	26
ZZ21877		<10	<1	0.09	10	0.76	301	<1	0.01	19	600	4	<0.01	<2	4	29
ZZ21878		<10	<1	0.10	10	0.73	245	1	0.01	18	530	5	<0.01	<2	3	26
ZZ21879		10	<1	0.11	10	0.63	210	1	0.01	16	340	4	<0.01	<2	3	24
ZZ21880		10	<1	0.10	10	0.66	213	1	0.01	15	330	5	0.01	<2	3	29
ZZ21881		10	<1	0.05	10	0.83	254	<1	0.01	18	1040	13	<0.01	<2	4	29
ZZ21882		10	<1	0.07	10	0.70	249	1	0.01	16	930	12	0.02	<2	3	25
ZZ21883		10	<1	0.13	10	0.74	336	1	0.02	17	880	7	0.15	<2	4	29
ZZ21884		<10	<1	0.12	20	0.71	580	1	0.02	20	1180	8	0.21	<2	6	39
ZZ21885		10	<1	0.22	10	2.25	532	5	<0.01	95	650	6	0.12	<2	10	18
ZZ21886		10	<1	0.16	10	0.77	183	1	0.01	24	230	11	0.01	<2	2	23
ZZ21887		<10	<1	0.09	10	0.33	126	1	0.01	11	220	7	0.01	<2	1	15
ZZ21888		10	<1	0.10	50	0.76	919	1	0.01	23	750	9	0.03	<2	8	41
ZZ21889		10	<1	0.31	20	1.13	308	1	<0.01	29	780	8	<0.01	<2	4	27
ZZ21890		10	<1	0.26	10	1.01	353	1	0.01	28	580	7	0.01	<2	3	25
ZZ21891		10	<1	0.40	10	1.10	272	1	0.01	52	740	3	0.04	<2	3	26
ZZ21892		10	<1	0.18	10	1.52	323	1	<0.01	33	190	8	<0.01	<2	3	17
ZZ21893		10	<1	0.06	10	0.74	319	2	0.01	38	190	7	<0.01	<2	4	24
ZZ21894		10	<1	0.06	10	0.60	533	1	0.01	18	640	8	0.01	<2	4	23
ZZ21895		10	<1	0.05	10	0.68	586	1	0.01	19	520	6	<0.01	<2	4	18
ZZ21896		10	<1	0.04	10	0.40	215	1	0.01	16	650	8	0.01	<2	2	17
ZZ21897		10	<1	0.05	10	0.58	291	1	0.01	13	1190	34	<0.01	<2	4	24
ZZ21898		<10	<1	0.05	10	0.56	328	1	0.01	16	640	8	0.01	<2	5	28
ZZ21899		10	<1	0.28	10	1.02	575	<1	0.01	20	1310	10	0.01	<2	4	35
ZZ21900		10	<1	0.11	10	0.77	342	1	0.01	25	390	23	<0.01	<2	7	25
ZZ21901		10	<1	0.11	10	0.66	269	1	0.01	17	430	6	0.01	<2	4	28
ZZ21902		<10	<1	0.16	20	0.65	674	1	0.01	18	460	7	0.01	<2	6	28
ZZ21903		10	<1	0.12	10	0.49	1175	1	0.01	15	270	7	0.02	<2	3	29
ZZ21904		10	<1	0.06	10	0.62	330	1	0.01	17	320	7	0.02	<2	3	21
ZZ21905		<10	<1	0.04	10	0.60	287	1	<0.01	22	570	5	0.01	<2	5	25
ZZ21906		10	<1	0.27	<10	2.28	1190	1	0.01	99	1420	41	0.03	<2	11	30
ZZ21907		10	<1	0.47	10	0.78	394	2	0.01	14	500	12	0.07	<2	4	35
ZZ21908		10	<1	0.30	10	0.59	401	2	0.02	12	240	23	0.01	<2	3	23
ZZ21909		10	<1	0.55	20	0.80	341	4	0.02	7	900	32	0.13	<2	4	40
ZZ21910		<10	<1	0.33	<10	1.31	292	<1	0.05	19	640	<2	<0.01	<2	5	28

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165351

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ21871		<20	0.11	<10	<10	68	<10	52
ZZ21872		<20	0.11	<10	<10	70	<10	61
ZZ21873		<20	0.10	<10	<10	65	<10	51
ZZ21874		<20	0.10	<10	<10	66	<10	50
ZZ21875		<20	0.10	<10	<10	65	<10	50
ZZ21876		<20	0.10	<10	<10	64	<10	50
ZZ21877		<20	0.10	<10	<10	65	<10	50
ZZ21878		<20	0.10	<10	<10	64	<10	50
ZZ21879		<20	0.10	<10	<10	62	<10	47
ZZ21880		<20	0.10	<10	<10	63	<10	48
ZZ21881		<20	0.14	<10	<10	85	<10	62
ZZ21882		<20	0.11	<10	<10	71	<10	50
ZZ21883		<20	0.12	<10	<10	72	<10	60
ZZ21884		<20	0.09	<10	<10	66	<10	64
ZZ21885		<20	0.19	<10	<10	158	<10	87
ZZ21886		<20	0.16	<10	<10	66	<10	40
ZZ21887		<20	0.07	<10	<10	31	<10	30
ZZ21888		<20	0.10	<10	<10	70	<10	62
ZZ21889		<20	0.15	<10	<10	69	<10	72
ZZ21890		<20	0.15	<10	<10	73	<10	55
ZZ21891		<20	0.13	<10	<10	59	<10	57
ZZ21892		<20	0.16	<10	<10	67	<10	60
ZZ21893		<20	0.09	<10	<10	77	<10	59
ZZ21894		<20	0.09	<10	<10	95	<10	73
ZZ21895		<20	0.12	<10	<10	88	<10	59
ZZ21896		<20	0.08	<10	<10	70	<10	47
ZZ21897		<20	0.10	<10	<10	79	<10	109
ZZ21898		<20	0.09	<10	<10	70	<10	49
ZZ21899		<20	0.12	<10	<10	72	<10	74
ZZ21900		<20	0.10	<10	<10	76	<10	76
ZZ21901		<20	0.11	<10	<10	69	<10	49
ZZ21902		<20	0.11	<10	<10	68	<10	56
ZZ21903		<20	0.10	<10	<10	72	<10	44
ZZ21904		<20	0.11	<10	<10	76	<10	48
ZZ21905		<20	0.11	<10	<10	76	<10	47
ZZ21906		<20	0.25	<10	<10	143	<10	99
ZZ21907		<20	0.15	<10	<10	65	<10	113
ZZ21908		<20	0.12	<10	<10	48	<10	164
ZZ21909		<20	0.16	<10	<10	56	<10	216
ZZ21910		<20	0.15	<10	<10	66	<10	26

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 23- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165351

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ21911		0.22	0.001	<0.2	1.86	6	<10	280	<0.5	<2	0.44	<0.5	14	27	46	3.14
ZZ21912		0.26	0.004	0.3	1.84	9	<10	290	<0.5	<2	0.41	<0.5	34	32	46	3.24
ZZ21913		0.20	0.009	0.2	2.14	8	<10	270	<0.5	<2	0.28	<0.5	17	32	41	3.29
ZZ21914		0.24	0.003	<0.2	1.77	5	<10	230	<0.5	<2	0.54	<0.5	32	19	195	4.68
ZZ21915		0.22	0.003	0.2	1.65	6	<10	250	0.5	<2	0.82	<0.5	17	27	67	3.71
ZZ21916		0.22	<0.001	0.2	1.72	5	<10	210	<0.5	<2	0.62	<0.5	13	33	35	2.80
ZZ21917		0.20	<0.001	0.2	1.74	4	<10	390	<0.5	<2	0.38	<0.5	13	34	17	3.05
ZZ21918		0.18	0.001	<0.2	1.65	7	<10	290	0.5	<2	0.45	<0.5	10	32	25	2.77
ZZ21919		0.24	<0.001	<0.2	1.89	6	<10	370	0.7	<2	0.67	<0.5	16	45	46	3.97
ZZ21920		0.32	<0.001	<0.2	1.79	5	<10	210	<0.5	<2	0.50	<0.5	12	44	29	3.07
ZZ21921		0.26	<0.001	<0.2	1.94	<2	<10	260	<0.5	2	0.53	<0.5	16	33	50	3.47
ZZ21922		0.24	<0.001	0.3	1.94	3	<10	270	<0.5	<2	0.59	<0.5	10	36	43	3.14
ZZ21923		0.16	<0.001	<0.2	1.69	5	<10	150	<0.5	2	0.43	<0.5	11	29	34	2.62
ZZ21924		0.26	<0.001	0.2	2.01	8	<10	230	<0.5	<2	0.37	<0.5	11	44	28	3.67
ZZ21925		0.18	<0.001	<0.2	1.81	4	<10	310	<0.5	2	0.36	<0.5	11	36	15	3.18
ZZ21926		0.20	<0.001	<0.2	1.97	6	<10	400	0.5	2	0.39	<0.5	14	33	19	3.54
ZZ21927		0.14	<0.001	0.3	1.69	5	<10	310	<0.5	<2	0.23	<0.5	10	20	19	3.19
ZZ21928		0.22	<0.001	0.2	1.65	4	<10	290	<0.5	<2	0.23	<0.5	12	18	19	3.46
ZZ21929		0.18	<0.001	0.2	1.51	9	<10	240	<0.5	<2	0.22	<0.5	7	21	14	3.04
ZZ21930		0.14	0.001	0.7	1.77	5	<10	440	<0.5	<2	0.26	<0.5	11	29	21	3.16
ZZ21931		0.16	<0.001	1.0	1.40	5	<10	230	1.1	2	0.34	1.4	8	23	21	2.46
ZZ21932		0.20	<0.001	0.2	1.51	7	<10	270	<0.5	<2	0.53	<0.5	10	28	26	2.72
ZZ21933		0.24	0.001	0.2	1.80	8	<10	240	<0.5	<2	0.42	<0.5	11	38	32	3.21
ZZ21934		0.20	<0.001	0.2	1.59	9	<10	210	<0.5	2	0.55	<0.5	12	28	37	3.70
ZZ21935		0.16	<0.001	0.2	1.71	6	<10	210	<0.5	<2	0.55	<0.5	10	33	43	2.61
ZZ21936		0.22	<0.001	0.3	1.65	2	<10	190	<0.5	<2	0.51	<0.5	10	32	45	2.46
ZZ21937		0.14	0.003	<0.2	1.70	2	<10	220	<0.5	2	0.51	<0.5	11	30	37	2.61
ZZ21938		0.24	0.001	<0.2	1.58	3	<10	200	<0.5	2	0.45	<0.5	11	30	43	2.53
ZZ21939		0.28	0.001	<0.2	1.63	4	<10	160	<0.5	<2	0.39	<0.5	14	33	45	3.14
ZZ21940		0.20	0.002	<0.2	1.55	4	<10	140	<0.5	<2	0.45	<0.5	11	33	46	3.00
ZZ21941		0.16	0.001	0.2	1.62	2	<10	200	<0.5	<2	0.67	<0.5	15	34	56	3.07
ZZ21942		0.20	0.002	<0.2	1.68	4	<10	180	<0.5	<2	0.62	<0.5	15	35	41	3.31
ZZ21943		0.20	0.001	<0.2	1.63	3	<10	140	<0.5	<2	0.22	<0.5	13	33	33	3.08
ZZ21944		0.22	0.012	<0.2	2.02	7	<10	160	<0.5	<2	0.18	<0.5	10	30	31	3.14
ZZ21945		0.20	0.003	<0.2	1.61	7	<10	200	<0.5	<2	0.42	<0.5	11	29	31	3.19
ZZ21946		0.20	0.002	<0.2	1.63	5	<10	180	<0.5	<2	0.66	<0.5	10	27	35	3.17
ZZ21947		0.20	0.003	<0.2	1.78	8	<10	190	<0.5	<2	0.62	<0.5	11	29	41	3.14
ZZ21948		0.20	0.004	<0.2	1.88	4	<10	160	<0.5	<2	0.38	<0.5	10	32	45	3.26
ZZ21949		0.24	0.003	<0.2	1.77	5	<10	150	<0.5	<2	0.39	<0.5	11	30	41	3.21
ZZ21950		0.22	0.003	<0.2	1.84	3	<10	180	<0.5	<2	0.38	<0.5	11	31	45	3.27

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CERTIFICATE OF ANALYSIS WH11165351

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ21911		10	<1	0.16	10	0.83	274	<1	0.04	18	1150	12	<0.01	<2	4	28
ZZ21912		10	<1	0.11	10	0.62	283	<1	0.03	22	1020	8	<0.01	<2	5	30
ZZ21913		10	1	0.08	10	0.69	226	<1	0.03	25	430	8	<0.01	<2	4	23
ZZ21914		10	<1	0.27	<10	0.98	340	<1	0.07	15	1310	5	0.16	<2	7	56
ZZ21915		10	<1	0.16	10	0.84	611	<1	0.04	22	1400	4	0.01	<2	9	36
ZZ21916		<10	<1	0.08	<10	0.65	402	1	0.03	19	1480	5	<0.01	<2	5	33
ZZ21917		10	<1	0.15	10	0.68	408	1	0.02	19	540	6	<0.01	<2	3	31
ZZ21918		<10	<1	0.06	10	0.54	363	<1	0.03	22	460	8	<0.01	<2	5	34
ZZ21919		10	<1	0.07	10	0.89	685	<1	0.03	31	860	6	0.01	<2	10	35
ZZ21920		10	<1	0.12	10	0.83	324	<1	0.02	24	640	5	<0.01	<2	5	28
ZZ21921		10	<1	0.38	10	1.12	434	1	0.03	17	780	3	0.01	<2	4	29
ZZ21922		10	<1	0.13	10	0.77	284	1	0.03	19	750	4	0.01	<2	5	36
ZZ21923		10	<1	0.08	10	0.67	253	<1	0.02	16	980	5	<0.01	<2	3	28
ZZ21924		10	<1	0.08	10	0.79	251	1	0.02	21	790	6	<0.01	<2	4	22
ZZ21925		10	1	0.11	10	0.57	344	1	0.02	19	480	7	<0.01	<2	3	27
ZZ21926		10	<1	0.36	10	0.80	850	<1	0.03	20	260	7	<0.01	<2	7	26
ZZ21927		10	<1	0.33	10	0.74	440	1	0.02	9	650	22	0.03	<2	4	22
ZZ21928		10	<1	0.44	10	0.68	657	1	0.02	8	630	16	0.01	<2	5	21
ZZ21929		10	<1	0.20	10	0.48	342	1	0.01	10	670	17	<0.01	<2	3	21
ZZ21930		10	<1	0.22	10	0.61	874	1	0.02	15	330	10	0.01	<2	3	24
ZZ21931		10	<1	0.15	10	0.43	766	1	0.02	12	210	94	<0.01	<2	3	27
ZZ21932		<10	<1	0.08	10	0.55	425	1	0.03	19	710	12	0.01	<2	4	39
ZZ21933		10	<1	0.07	10	0.60	243	<1	0.03	23	830	7	<0.01	<2	5	35
ZZ21934		10	1	0.09	10	0.65	304	<1	0.04	15	1060	6	0.01	<2	5	36
ZZ21935		10	<1	0.04	10	0.67	434	<1	0.02	19	740	4	0.05	<2	5	27
ZZ21936		10	<1	0.04	10	0.63	338	<1	0.02	18	770	5	0.04	<2	5	23
ZZ21937		10	<1	0.04	10	0.57	703	1	0.03	17	1030	7	0.07	<2	4	26
ZZ21938		10	<1	0.05	10	0.62	370	1	0.02	21	750	6	0.07	<2	3	20
ZZ21939		10	<1	0.05	10	0.75	611	<1	0.02	19	610	5	0.04	<2	4	17
ZZ21940		10	<1	0.05	10	0.70	548	1	0.02	19	760	5	0.05	<2	4	18
ZZ21941		10	<1	0.07	10	0.85	793	<1	0.03	19	660	5	0.05	<2	6	22
ZZ21942		10	<1	0.10	10	0.91	813	1	0.02	17	830	6	0.06	<2	6	21
ZZ21943		10	<1	0.14	10	0.79	466	<1	0.02	18	490	5	0.01	<2	5	13
ZZ21944		10	<1	0.05	10	0.53	414	<1	0.02	20	470	7	0.03	2	3	16
ZZ21945		10	<1	0.06	10	0.58	819	<1	0.02	18	690	5	0.05	<2	4	20
ZZ21946		10	<1	0.05	10	0.58	647	<1	0.03	15	670	9	0.04	<2	3	25
ZZ21947		10	<1	0.06	10	0.57	700	<1	0.03	18	690	9	0.04	<2	4	25
ZZ21948		10	<1	0.05	10	0.63	513	<1	0.02	20	610	9	0.03	<2	4	19
ZZ21949		10	<1	0.05	10	0.61	602	<1	0.02	18	570	10	0.02	<2	4	19
ZZ21950		10	1	0.05	10	0.59	633	<1	0.02	18	570	9	0.02	<2	4	19

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Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
ZZ21911		<20	0.14	<10	<10	78	<10	68
ZZ21912		<20	0.10	<10	<10	80	<10	58
ZZ21913		<20	0.11	<10	<10	84	<10	49
ZZ21914		<20	0.15	<10	<10	142	<10	52
ZZ21915		<20	0.07	<10	<10	85	<10	56
ZZ21916		<20	0.10	<10	<10	64	<10	54
ZZ21917		<20	0.12	<10	<10	68	<10	60
ZZ21918		<20	0.09	<10	<10	61	<10	47
ZZ21919		<20	0.08	<10	<10	83	<10	63
ZZ21920		<20	0.11	<10	<10	72	<10	54
ZZ21921		<20	0.18	<10	<10	77	<10	64
ZZ21922		<20	0.12	<10	<10	71	<10	57
ZZ21923		<20	0.13	<10	<10	64	<10	53
ZZ21924		<20	0.13	<10	<10	85	<10	48
ZZ21925		<20	0.10	<10	<10	72	<10	54
ZZ21926		<20	0.13	<10	<10	74	<10	62
ZZ21927		<20	0.15	<10	<10	71	<10	94
ZZ21928		<20	0.17	<10	<10	72	<10	94
ZZ21929		<20	0.15	<10	<10	80	<10	71
ZZ21930		<20	0.13	<10	<10	68	<10	65
ZZ21931		<20	0.09	<10	<10	54	<10	261
ZZ21932		<20	0.10	<10	<10	58	<10	79
ZZ21933		<20	0.10	<10	<10	80	<10	51
ZZ21934		<20	0.10	<10	<10	117	<10	50
ZZ21935		<20	0.07	<10	<10	60	<10	66
ZZ21936		<20	0.07	<10	<10	59	<10	68
ZZ21937		<20	0.06	<10	<10	59	<10	62
ZZ21938		<20	0.06	<10	<10	61	<10	64
ZZ21939		<20	0.07	<10	<10	71	<10	67
ZZ21940		<20	0.08	<10	<10	67	<10	60
ZZ21941		<20	0.09	<10	<10	72	<10	68
ZZ21942		<20	0.09	<10	<10	73	<10	85
ZZ21943		<20	0.12	<10	<10	61	<10	65
ZZ21944		<20	0.09	<10	<10	70	<10	47
ZZ21945		<20	0.06	<10	<10	66	<10	60
ZZ21946		<20	0.06	<10	<10	70	<10	68
ZZ21947		<20	0.07	<10	<10	68	<10	65
ZZ21948		<20	0.07	<10	<10	70	<10	66
ZZ21949		<20	0.07	<10	<10	70	<10	66
ZZ21950		<20	0.07	<10	<10	70	<10	62

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Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ21951		0.22	0.005	<0.2	1.77	4	<10	170	<0.5	<2	0.41	<0.5	11	30	47	3.22
ZZ21952		0.28	0.003	<0.2	1.82	4	<10	180	<0.5	<2	0.38	<0.5	12	33	52	3.23
ZZ21953		0.24	0.007	<0.2	1.69	4	<10	180	<0.5	<2	0.53	<0.5	10	28	40	2.89
ZZ21954		0.20	0.004	<0.2	1.45	5	<10	150	<0.5	<2	0.60	<0.5	9	23	28	2.81
ZZ21955		0.18	0.005	<0.2	1.69	4	<10	160	<0.5	<2	0.51	<0.5	10	25	38	3.04
ZZ21956		0.22	0.007	<0.2	1.80	<2	<10	170	<0.5	<2	0.47	<0.5	10	26	43	3.22
ZZ21957		0.24	0.005	<0.2	1.72	2	<10	170	<0.5	<2	0.54	<0.5	9	27	38	2.99
ZZ21958		0.22	<0.001	<0.2	1.80	2	<10	160	<0.5	<2	0.52	<0.5	11	28	35	2.86
ZZ21959		0.14	0.003	<0.2	1.75	3	<10	230	<0.5	<2	1.01	<0.5	11	27	63	2.69
ZZ21960		0.16	0.001	<0.2	1.22	3	<10	120	<0.5	<2	0.22	<0.5	6	18	16	2.46
ZZ21961		0.22	0.001	<0.2	1.62	5	<10	140	<0.5	<2	0.47	<0.5	7	23	26	2.55
ZZ21962		0.16	<0.001	<0.2	1.38	2	<10	250	<0.5	<2	0.51	<0.5	6	19	23	2.36
ZZ21963		0.30	0.006	<0.2	1.55	5	<10	160	<0.5	<2	0.33	<0.5	8	26	26	2.54
ZZ21964		0.24	0.002	<0.2	1.80	3	<10	180	<0.5	<2	0.35	<0.5	9	31	37	2.72
ZZ21965		0.26	0.002	<0.2	1.76	4	<10	180	<0.5	<2	0.35	<0.5	9	30	41	2.71
ZZ21966		0.32	<0.001	<0.2	1.74	5	<10	170	<0.5	<2	0.31	<0.5	8	28	32	2.71
ZZ21967		0.20	0.001	<0.2	2.52	8	<10	190	<0.5	<2	0.30	<0.5	17	37	45	4.29
ZZ21968		0.18	<0.001	<0.2	1.83	3	<10	190	<0.5	<2	0.43	<0.5	9	24	39	3.19
ZZ21969		0.30	0.002	<0.2	1.74	5	<10	170	<0.5	<2	0.33	<0.5	9	29	38	2.74
ZZ21970		0.14	0.009	<0.2	1.12	<2	<10	260	<0.5	<2	0.20	<0.5	4	19	17	1.73
ZZ21971		0.10	0.003	0.2	1.27	<2	<10	150	<0.5	<2	0.24	<0.5	4	21	19	1.76
ZZ21972		0.34	0.001	<0.2	1.74	<2	<10	180	<0.5	<2	0.38	<0.5	13	27	70	2.95
ZZ21973		0.22	0.001	<0.2	1.79	3	<10	170	<0.5	<2	0.41	<0.5	11	26	47	2.99
ZZ21974		0.28	<0.001	<0.2	1.91	2	<10	170	<0.5	<2	0.38	<0.5	11	28	49	3.22
ZZ21975		0.28	0.001	<0.2	1.82	4	<10	170	<0.5	<2	0.40	<0.5	11	26	50	3.02
ZZ21976		0.28	0.002	<0.2	1.83	3	<10	180	<0.5	<2	0.39	<0.5	11	27	60	3.11
ZZ21977		0.44	0.002	<0.2	1.85	3	<10	180	<0.5	<2	0.48	<0.5	12	28	47	3.02
ZZ21978		0.46	0.002	<0.2	1.92	5	<10	180	<0.5	<2	0.38	<0.5	11	28	47	3.15
ZZ21979		0.44	0.002	<0.2	1.86	6	<10	170	<0.5	<2	0.38	<0.5	10	27	44	3.08
ZZ21980		0.36	0.001	<0.2	1.95	3	<10	180	<0.5	2	0.38	<0.5	11	28	44	3.10
ZZ21981		0.32	0.001	<0.2	1.97	4	<10	180	<0.5	2	0.38	<0.5	11	27	48	3.10
ZZ21982		0.26	0.005	0.2	1.97	4	<10	210	<0.5	2	0.41	<0.5	13	27	56	3.21
ZZ21983		0.24	0.001	<0.2	1.87	4	<10	210	<0.5	<2	0.40	<0.5	13	27	58	3.12
ZZ21984		0.38	0.001	0.2	1.83	4	<10	170	<0.5	<2	0.41	<0.5	12	26	46	3.10
ZZ21985		0.30	<0.001	<0.2	1.89	4	<10	170	<0.5	<2	0.37	<0.5	12	27	48	3.15
ZZ21986		0.36	0.002	<0.2	1.87	4	<10	170	<0.5	2	0.38	<0.5	12	26	48	3.15
ZZ21987		0.36	<0.001	<0.2	1.81	5	<10	160	<0.5	<2	0.36	<0.5	12	25	50	3.02
ZZ21988		0.32	0.001	<0.2	1.84	5	<10	160	<0.5	<2	0.36	<0.5	11	25	50	3.08
ZZ21989		0.58	0.002	<0.2	1.91	5	<10	170	<0.5	<2	0.38	<0.5	12	26	52	3.15
ZZ21990		0.40	<0.001	<0.2	1.93	5	<10	160	<0.5	<2	0.39	<0.5	12	26	48	3.20

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Finalized Date: 23- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165351

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ21951		10	1	0.05	10	0.61	625	<1	0.02	19	580	7	0.03	<2	4	19
ZZ21952		10	<1	0.05	10	0.65	575	<1	0.02	21	560	7	0.01	<2	5	16
ZZ21953		10	<1	0.05	10	0.53	619	<1	0.02	16	620	9	0.04	<2	4	23
ZZ21954		10	<1	0.05	10	0.53	506	<1	0.02	14	550	6	0.03	<2	4	23
ZZ21955		10	<1	0.05	10	0.62	602	<1	0.02	17	620	5	0.02	<2	4	20
ZZ21956		10	1	0.05	10	0.63	670	<1	0.03	16	660	7	0.02	2	4	19
ZZ21957		10	<1	0.05	10	0.57	531	<1	0.03	18	630	5	0.03	<2	4	23
ZZ21958		10	<1	0.05	10	0.79	290	<1	0.03	14	600	3	0.03	<2	5	21
ZZ21959		10	1	0.05	20	0.64	754	<1	0.03	17	820	3	0.07	<2	5	32
ZZ21960		10	<1	0.05	10	0.31	285	<1	0.02	9	390	4	0.02	<2	2	14
ZZ21961		10	1	0.05	10	0.42	430	<1	0.02	13	490	3	0.02	<2	4	20
ZZ21962		10	<1	0.13	10	0.32	803	<1	0.03	10	460	5	0.03	<2	3	24
ZZ21963		<10	<1	0.05	10	0.62	218	<1	0.02	14	660	4	0.02	<2	4	19
ZZ21964		10	<1	0.06	10	0.68	207	<1	0.03	16	600	7	0.02	2	4	23
ZZ21965		10	<1	0.05	10	0.65	249	<1	0.03	16	660	5	0.02	<2	4	22
ZZ21966		10	1	0.05	10	0.65	203	<1	0.03	15	620	5	0.02	<2	4	19
ZZ21967		10	<1	0.07	10	0.70	760	<1	0.03	21	660	9	0.02	<2	5	21
ZZ21968		10	<1	0.04	10	0.68	277	<1	0.03	14	430	4	0.03	<2	5	24
ZZ21969		10	<1	0.05	10	0.67	201	<1	0.03	16	620	6	0.02	<2	4	21
ZZ21970		10	<1	0.03	10	0.36	107	<1	0.02	9	500	5	0.05	<2	2	15
ZZ21971		10	<1	0.04	10	0.44	139	<1	0.02	9	530	4	0.04	<2	2	16
ZZ21972		10	<1	0.09	10	0.80	522	<1	0.02	20	640	2	0.02	<2	4	16
ZZ21973		10	<1	0.05	10	0.65	585	<1	0.02	16	710	3	0.03	<2	4	20
ZZ21974		10	<1	0.05	10	0.71	486	<1	0.02	18	720	3	0.02	<2	4	19
ZZ21975		10	<1	0.06	10	0.69	524	<1	0.02	16	720	2	0.02	<2	4	19
ZZ21976		10	<1	0.07	10	0.79	478	<1	0.03	18	660	<2	0.01	3	5	19
ZZ21977		10	<1	0.06	10	0.66	583	<1	0.03	17	730	4	0.04	<2	4	23
ZZ21978		10	<1	0.06	10	0.69	484	<1	0.02	19	660	4	0.02	<2	4	19
ZZ21979		10	<1	0.05	10	0.68	452	<1	0.02	17	660	3	0.02	2	4	18
ZZ21980		10	<1	0.04	10	0.69	476	1	0.02	20	650	6	0.03	<2	4	20
ZZ21981		10	<1	0.04	10	0.70	500	<1	0.02	19	670	5	0.03	<2	4	20
ZZ21982		10	<1	0.04	10	0.73	602	<1	0.02	21	680	6	0.03	<2	5	22
ZZ21983		10	<1	0.05	10	0.73	588	<1	0.02	21	640	5	0.02	<2	5	22
ZZ21984		10	<1	0.04	10	0.71	508	1	0.02	19	610	5	0.03	<2	4	21
ZZ21985		10	<1	0.04	10	0.72	482	<1	0.02	20	610	4	0.03	<2	4	19
ZZ21986		10	<1	0.04	10	0.72	498	<1	0.02	20	630	4	0.03	2	4	20
ZZ21987		10	<1	0.04	10	0.71	476	<1	0.02	19	600	5	0.02	2	4	18
ZZ21988		10	<1	0.04	10	0.73	477	1	0.02	19	600	5	0.02	<2	4	18
ZZ21989		10	<1	0.05	10	0.75	493	1	0.02	20	620	4	0.02	<2	5	19
ZZ21990		10	<1	0.04	10	0.73	497	1	0.02	20	630	5	0.03	<2	4	20

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Finalized Date: 23- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165351

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ21951		<20	0.07	<10	<10	69	<10	62
ZZ21952		<20	0.07	<10	<10	69	<10	64
ZZ21953		<20	0.06	<10	<10	63	<10	57
ZZ21954		<20	0.07	<10	<10	62	<10	63
ZZ21955		<20	0.07	<10	<10	62	<10	65
ZZ21956		<20	0.07	<10	<10	64	<10	65
ZZ21957		<20	0.07	<10	<10	64	<10	61
ZZ21958		<20	0.08	<10	<10	65	<10	59
ZZ21959		<20	0.07	<10	<10	57	<10	65
ZZ21960		<20	0.06	<10	<10	59	<10	50
ZZ21961		<20	0.06	<10	<10	55	<10	53
ZZ21962		<20	0.06	<10	<10	50	<10	92
ZZ21963		<20	0.09	<10	<10	59	<10	75
ZZ21964		<20	0.11	<10	<10	64	<10	85
ZZ21965		<20	0.09	<10	<10	64	<10	75
ZZ21966		<20	0.09	<10	<10	63	<10	78
ZZ21967		<20	0.11	<10	<10	98	<10	81
ZZ21968		<20	0.10	<10	<10	81	<10	67
ZZ21969		<20	0.10	<10	<10	62	<10	81
ZZ21970		<20	0.05	<10	<10	30	<10	46
ZZ21971		<20	0.06	<10	<10	43	<10	52
ZZ21972		<20	0.09	<10	<10	65	<10	59
ZZ21973		<20	0.07	<10	<10	67	<10	60
ZZ21974		<20	0.08	<10	<10	71	<10	61
ZZ21975		<20	0.08	<10	<10	66	<10	58
ZZ21976		<20	0.09	<10	<10	73	<10	58
ZZ21977		<20	0.07	<10	<10	69	<10	62
ZZ21978		<20	0.08	<10	<10	71	<10	61
ZZ21979		<20	0.07	<10	<10	66	<10	58
ZZ21980		<20	0.09	<10	<10	71	<10	62
ZZ21981		<20	0.09	<10	<10	71	<10	62
ZZ21982		<20	0.09	<10	<10	72	<10	64
ZZ21983		<20	0.09	<10	<10	71	<10	63
ZZ21984		<20	0.09	<10	<10	75	<10	65
ZZ21985		<20	0.09	<10	<10	75	<10	61
ZZ21986		<20	0.09	<10	<10	75	<10	61
ZZ21987		<20	0.09	<10	<10	73	<10	59
ZZ21988		<20	0.09	<10	<10	74	<10	59
ZZ21989		<20	0.10	<10	<10	75	<10	61
ZZ21990		<20	0.09	<10	<10	75	<10	63

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CERTIFICATE OF ANALYSIS WH11165351

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ21991		0.34	0.001	<0.2	1.92	4	<10	170	<0.5	<2	0.39	<0.5	11	27	46	3.22
ZZ21992		0.30	0.002	<0.2	1.90	5	<10	170	<0.5	<2	0.39	<0.5	11	26	44	3.26
ZZ21993		0.32	<0.001	<0.2	1.88	6	<10	170	<0.5	<2	0.38	<0.5	12	26	43	3.22
ZZ21994		0.32	<0.001	<0.2	1.74	6	<10	170	<0.5	2	0.46	<0.5	12	25	41	3.07
ZZ21995		0.22	<0.001	<0.2	1.69	5	<10	170	<0.5	2	0.45	<0.5	12	24	42	2.98
ZZ21996		0.42	0.001	<0.2	1.93	3	<10	180	<0.5	<2	0.43	<0.5	11	27	47	3.08
ZZ21997		0.26	0.001	<0.2	1.76	4	<10	170	<0.5	<2	0.44	<0.5	11	25	46	2.88
ZZ21998		0.30	0.001	<0.2	1.82	4	<10	170	<0.5	2	0.40	<0.5	12	25	46	2.99
ZZ21999		0.26	0.003	<0.2	1.77	4	<10	190	<0.5	2	0.49	<0.5	13	25	46	2.94
ZZ22000		0.28	0.001	<0.2	2.00	4	<10	190	<0.5	<2	0.42	<0.5	12	28	52	3.16

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CERTIFICATE OF ANALYSIS WH11165351

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ21991		10	<1	0.04	10	0.71	494	1	0.02	19	640	5	0.03	<2	4	20
ZZ21992		10	<1	0.04	10	0.71	489	1	0.02	19	610	5	0.03	<2	4	20
ZZ21993		10	<1	0.04	10	0.71	489	<1	0.02	19	620	5	0.03	<2	4	19
ZZ21994		10	<1	0.04	10	0.67	520	1	0.02	18	650	5	0.04	<2	4	22
ZZ21995		10	<1	0.04	10	0.66	500	1	0.02	17	640	5	0.04	<2	4	22
ZZ21996		10	<1	0.04	10	0.69	503	<1	0.02	20	690	6	0.03	<2	4	22
ZZ21997		10	<1	0.03	10	0.63	605	1	0.02	17	710	5	0.04	<2	4	22
ZZ21998		10	<1	0.03	10	0.67	608	1	0.02	18	690	6	0.03	<2	4	20
ZZ21999		10	<1	0.04	10	0.65	723	1	0.02	16	790	5	0.05	2	4	24
ZZ22000		10	<1	0.04	10	0.72	571	1	0.02	19	690	5	0.03	<2	5	22

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CERTIFICATE OF ANALYSIS WH11165351

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ21991		<20	0.09	<10	<10	77	<10	62
ZZ21992		<20	0.09	<10	<10	76	<10	62
ZZ21993		<20	0.09	<10	<10	76	<10	63
ZZ21994		<20	0.09	<10	<10	74	<10	66
ZZ21995		<20	0.09	<10	<10	73	<10	62
ZZ21996		<20	0.09	<10	<10	70	<10	62
ZZ21997		<20	0.08	<10	<10	67	<10	60
ZZ21998		<20	0.08	<10	<10	67	<10	61
ZZ21999		<20	0.08	<10	<10	69	<10	64
ZZ22000		<20	0.09	<10	<10	71	<10	63

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Finalized Date: 11- SEP- 2011
Account: F

CERTIFICATE WH11165360

Project: Arcus - Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11165360

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I079989		3.75	<0.005	<0.2	1.32	2	<10	110	1.1	<2	0.47	<0.5	11	52	14	1.79
I079990		3.60	<0.005	<0.2	0.40	6	<10	40	0.5	<2	0.05	<0.5	2	3	8	0.41
I079991		3.36	<0.005	<0.2	1.11	31	<10	70	1.6	<2	0.50	<0.5	5	27	13	1.38
I079992		1.77	<0.005	<0.2	0.36	9	<10	30	0.5	<2	0.05	<0.5	2	2	3	0.52
I079993		2.12	<0.005	<0.2	0.57	18	<10	40	1.0	<2	0.09	<0.5	5	14	17	1.32
I079994		0.06	2.14	14.3	0.94	19	<10	30	<0.5	4	0.26	49.9	9	38	4940	7.94
I079995		2.46	<0.005	<0.2	0.33	4	<10	30	0.6	<2	0.95	<0.5	2	3	9	0.71
I079996		4.09	<0.005	<0.2	1.71	<2	<10	160	1.4	<2	1.80	<0.5	14	69	21	2.09
I079997		0.85	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	18.1	<0.5	1	<1	1	0.43
I079998		3.55	<0.005	<0.2	0.74	4	<10	30	0.7	<2	0.84	<0.5	4	24	6	0.93
I079999		3.32	<0.005	<0.2	2.12	9	<10	130	1.2	<2	1.66	<0.5	15	81	27	2.76
I080000		4.00	<0.005	<0.2	0.38	5	<10	30	0.6	<2	0.06	<0.5	1	4	4	0.63
K974566		2.78	<0.005	<0.2	0.42	4	<10	30	<0.5	<2	0.39	<0.5	2	6	5	0.63
K974567		3.41	<0.005	<0.2	0.76	2	<10	30	0.5	<2	0.34	<0.5	6	29	14	1.00
K974568		3.85	<0.005	<0.2	0.35	4	<10	30	0.5	<2	0.47	<0.5	1	3	2	0.69
K974569		3.77	<0.005	<0.2	0.64	3	<10	50	0.5	<2	0.31	<0.5	4	18	9	0.83
K974570		5.72	<0.005	<0.2	0.98	4	<10	40	0.6	<2	0.65	<0.5	8	31	11	1.32
K974571		3.41	<0.005	<0.2	0.46	3	<10	30	0.5	<2	0.42	<0.5	1	4	3	0.74
K974572		4.25	<0.005	<0.2	0.39	<2	<10	20	0.5	<2	0.33	<0.5	1	4	1	0.57
K974573		4.59	<0.005	<0.2	2.44	<2	<10	70	1.1	<2	0.87	<0.5	26	110	44	2.74
K974574		3.26	<0.005	0.3	0.87	3	<10	30	0.8	<2	0.23	<0.5	6	18	10	1.29
K974575		3.91	<0.005	<0.2	0.38	<2	<10	20	<0.5	<2	0.08	<0.5	1	5	4	0.55
K974576		4.82	<0.005	<0.2	0.37	<2	<10	10	<0.5	<2	0.18	<0.5	<1	4	2	0.49
K974577		4.67	<0.005	<0.2	0.55	<2	<10	20	0.6	<2	0.15	<0.5	1	5	<1	0.70
K974578		3.82	<0.005	<0.2	0.42	<2	<10	20	0.5	<2	0.12	<0.5	2	10	2	0.59
K974579		5.00	<0.005	<0.2	0.79	<2	<10	180	0.5	<2	0.49	<0.5	8	34	16	1.14
K974580		3.58	<0.005	<0.2	0.40	4	<10	30	0.6	<2	0.28	<0.5	2	5	3	0.76
K974581		0.20	0.358	60.2	1.23	111	<10	60	<0.5	<2	0.54	24.2	17	36	4830	4.88
K974582		2.68	<0.005	<0.2	1.06	17	<10	60	1.9	<2	0.09	<0.5	6	57	8	1.84
K974583		0.81	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	19.5	<0.5	<1	<1	<1	0.43
K974584		6.56	<0.005	<0.2	0.47	4	<10	20	0.8	<2	0.21	<0.5	<1	3	1	0.53
K974585		6.62	<0.005	<0.2	0.36	<2	<10	20	0.7	<2	0.10	<0.5	<1	4	<1	0.52
K974586		6.41	<0.005	<0.2	0.53	<2	<10	20	0.6	<2	0.73	<0.5	1	6	<1	0.67
K974587		6.50	<0.005	<0.2	0.34	2	<10	20	0.6	<2	0.49	<0.5	<1	4	<1	0.51
K974588		5.76	<0.005	<0.2	0.49	3	<10	20	0.7	<2	1.07	<0.5	1	3	1	0.70
K974589		5.56	<0.005	<0.2	0.51	5	<10	20	0.6	<2	1.64	<0.5	1	3	<1	0.81

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 11- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165360

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I079989		<10	<1	0.64	20	0.87	306	<1	0.06	15	340	4	0.01	<2	4	20
I079990		<10	<1	0.18	20	0.03	89	<1	0.06	<1	80	8	<0.01	<2	<1	6
I079991		<10	<1	0.39	20	0.42	259	<1	0.05	13	180	13	<0.01	<2	2	20
I079992		<10	<1	0.12	20	0.02	69	<1	0.06	1	60	5	<0.01	<2	1	6
I079993		<10	<1	0.10	30	0.06	181	<1	0.04	5	200	8	<0.01	<2	4	7
I079994		<10	1	0.09	<10	0.87	289	11	0.01	17	90	214	>10.0	2	2	8
I079995		<10	<1	0.14	20	0.04	154	<1	0.06	2	90	12	0.01	<2	1	12
I079996		10	<1	1.03	20	1.26	348	<1	0.05	34	570	4	0.08	<2	4	43
I079997		<10	<1	0.01	10	11.75	201	<1	0.01	2	230	<2	0.01	<2	<1	51
I079998		<10	<1	0.41	20	0.39	179	<1	0.06	9	130	4	0.01	<2	3	16
I079999		10	<1	1.23	20	1.70	523	<1	0.04	34	470	4	0.01	<2	6	39
I080000		<10	<1	0.19	20	0.04	99	<1	0.06	<1	100	3	<0.01	<2	1	6
K974566		<10	<1	0.19	20	0.13	131	<1	0.08	2	90	4	<0.01	<2	1	12
K974567		<10	<1	0.22	10	0.43	143	<1	0.06	15	200	2	<0.01	<2	1	18
K974568		<10	<1	0.15	30	0.05	181	<1	0.07	<1	120	5	<0.01	<2	1	31
K974569		<10	<1	0.23	20	0.33	132	<1	0.09	7	150	3	0.01	<2	1	19
K974570		<10	<1	0.35	20	0.65	242	<1	0.06	12	260	4	<0.01	<2	2	24
K974571		<10	<1	0.22	30	0.10	160	<1	0.07	<1	100	7	<0.01	<2	1	15
K974572		<10	<1	0.15	30	0.07	87	<1	0.08	<1	120	3	<0.01	<2	1	19
K974573		10	<1	1.08	<10	2.31	466	<1	0.03	51	540	2	<0.01	<2	4	46
K974574		<10	<1	0.34	20	0.53	210	<1	0.09	7	270	12	0.02	<2	2	19
K974575		<10	<1	0.14	20	0.08	83	<1	0.12	<1	90	5	0.01	<2	1	13
K974576		<10	<1	0.10	30	0.04	69	<1	0.11	<1	130	3	0.01	<2	<1	28
K974577		<10	1	0.21	20	0.16	127	<1	0.12	1	200	2	0.02	<2	1	21
K974578		<10	<1	0.13	20	0.12	105	<1	0.11	3	150	3	0.01	<2	1	15
K974579		<10	1	0.29	10	0.50	172	<1	0.10	12	430	3	0.02	<2	2	28
K974580		<10	1	0.17	30	0.05	133	<1	0.09	2	140	7	0.01	<2	1	12
K974581		10	<1	0.57	10	0.73	545	190	0.05	25	980	2430	2.78	69	8	40
K974582		<10	1	0.40	20	0.37	392	<1	0.04	11	240	14	0.02	<2	6	10
K974583		<10	<1	0.01	<10	11.95	214	<1	0.04	<1	190	<2	0.03	<2	<1	53
K974584		<10	1	0.18	30	0.05	83	<1	0.09	<1	110	4	0.01	<2	1	14
K974585		<10	<1	0.12	20	0.03	60	<1	0.10	<1	70	5	0.02	<2	1	11
K974586		<10	1	0.23	30	0.15	168	<1	0.09	<1	160	5	0.02	<2	1	36
K974587		<10	1	0.15	20	0.03	88	<1	0.09	<1	70	8	0.02	<2	1	20
K974588		<10	<1	0.22	30	0.12	145	<1	0.10	1	190	7	0.05	<2	1	32
K974589		<10	<1	0.20	40	0.17	152	<1	0.10	<1	190	4	0.10	<2	1	59

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VANCOUVER BC V6B 1L8

Finalized Date: 11- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165360

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I079989		20	0.14	<10	<10	36	<10	25	
I079990		40	<0.01	<10	<10	2	<10	4	
I079991		40	0.03	<10	10	18	<10	16	
I079992		40	<0.01	<10	<10	3	<10	5	
I079993		30	<0.01	<10	10	15	<10	14	
I079994		<20	0.02	<10	<10	15	10	>10000	1.370
I079995		30	<0.01	<10	<10	3	<10	21	
I079996		20	0.16	<10	<10	43	<10	33	
I079997		<20	<0.01	<10	<10	1	<10	18	
I079998		30	0.02	<10	<10	13	<10	11	
I079999		20	0.18	<10	<10	54	<10	39	
I080000		40	<0.01	<10	<10	4	<10	5	
K974566		40	0.01	<10	<10	4	<10	5	
K974567		30	0.10	<10	<10	15	<10	10	
K974568		50	0.01	<10	<10	7	<10	6	
K974569		30	0.04	<10	<10	11	<10	8	
K974570		30	0.11	<10	<10	22	<10	17	
K974571		40	0.01	<10	<10	4	<10	8	
K974572		40	0.01	<10	<10	3	<10	4	
K974573		<20	0.31	<10	<10	59	<10	41	
K974574		40	0.04	<10	<10	14	<10	11	
K974575		40	0.01	<10	<10	3	<10	<2	
K974576		30	0.01	<10	<10	3	<10	<2	
K974577		40	0.01	<10	<10	6	<10	<2	
K974578		40	0.01	<10	<10	5	<10	<2	
K974579		20	0.13	<10	<10	20	<10	7	
K974580		30	0.01	<10	<10	4	<10	5	
K974581		<20	0.09	<10	<10	95	<10	2910	
K974582		20	0.03	<10	<10	32	<10	21	
K974583		<20	<0.01	<10	<10	1	<10	15	
K974584		40	<0.01	<10	<10	2	<10	<2	
K974585		40	<0.01	<10	<10	2	<10	<2	
K974586		40	0.01	<10	<10	6	<10	2	
K974587		40	<0.01	<10	<10	1	<10	<2	
K974588		40	0.01	<10	<10	4	<10	<2	
K974589		40	0.01	<10	<10	7	<10	<2	

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 13- SEP- 2011
Account: F

CERTIFICATE WH11165361

Project: Arcus - DanMan Core

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11165361

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
K974590		4.25	<0.005	<0.2	1.33	3	<10	80	0.7	<2	1.44	<0.5	14	61	20	1.65
K974591		3.67	<0.005	<0.2	0.28	<2	<10	20	0.5	<2	0.39	<0.5	<1	4	1	0.37
K974592		7.69	<0.005	<0.2	0.31	<2	<10	20	0.5	<2	0.63	<0.5	1	4	<1	0.38
K974593		3.92	<0.005	<0.2	0.55	11	<10	30	1.1	<2	0.51	<0.5	3	7	1	0.78
K974594		4.83	<0.005	<0.2	0.41	3	<10	20	0.6	<2	0.37	<0.5	1	2	<1	0.46
K974595		2.59	<0.005	<0.2	0.33	2	<10	30	0.6	<2	1.29	<0.5	<1	2	<1	0.65
K974596		5.30	<0.005	<0.2	0.68	7	<10	30	1.2	<2	2.01	<0.5	4	25	7	1.25
K974597		4.56	<0.005	<0.2	0.96	4	<10	180	0.7	<2	1.45	<0.5	9	35	13	1.39
K974598		5.24	<0.005	<0.2	0.43	4	<10	20	0.5	<2	0.69	<0.5	1	4	1	0.69
K974599		5.85	0.006	0.4	0.44	2	<10	60	0.6	3	1.30	<0.5	1	3	1	0.41
K974600		3.16	<0.005	<0.2	0.82	2	<10	210	0.9	<2	1.82	<0.5	5	23	8	1.15
K975301		5.16	<0.005	<0.2	0.29	<2	<10	20	<0.5	<2	0.36	<0.5	<1	3	<1	0.33
K975302		3.63	<0.005	<0.2	0.28	<2	<10	30	<0.5	<2	0.80	<0.5	<1	3	<1	0.33
K975303		8.45	<0.005	<0.2	2.29	4	<10	150	1.7	<2	3.15	<0.5	17	80	24	3.17
K975304		3.13	<0.005	<0.2	0.39	<2	<10	30	0.7	<2	0.56	<0.5	1	7	1	0.51
K975305		0.08	2.19	15.3	0.96	23	<10	30	<0.5	5	0.29	57.7	10	43	5050	8.86
K975306		3.06	<0.005	0.7	0.32	10	<10	30	0.9	3	0.70	<0.5	1	3	16	0.78
K975307		3.42	<0.005	<0.2	0.37	<2	<10	30	0.7	<2	0.68	<0.5	1	4	<1	0.48
K975308		2.03	<0.005	<0.2	0.27	<2	<10	10	<0.5	<2	0.54	<0.5	<1	3	<1	0.27
K975309		4.87	<0.005	<0.2	0.93	7	<10	80	1.4	<2	1.15	<0.5	6	40	4	1.55
K975310		4.19	<0.005	<0.2	0.31	3	<10	20	0.5	<2	0.70	<0.5	2	2	1	0.61
K975311		5.18	<0.005	<0.2	0.24	<2	<10	10	<0.5	<2	0.20	<0.5	1	5	<1	0.44
K975312		1.89	<0.005	<0.2	0.31	2	<10	<10	1.3	<2	1.13	<0.5	2	3	<1	0.89
K975313		0.70	<0.005	<0.2	0.02	<2	<10	<10	<0.5	<2	19.3	<0.5	2	<1	1	0.44
K975314		3.61	<0.005	<0.2	3.43	10	<10	210	2.6	<2	5.16	<0.5	26	136	30	4.48
K975315		3.95	<0.005	<0.2	0.27	<2	<10	10	0.7	<2	0.34	<0.5	2	6	2	0.50
K975316		4.44	<0.005	<0.2	0.27	6	<10	10	0.7	<2	0.74	<0.5	2	10	7	0.58
K975317		2.34	<0.005	<0.2	1.57	18	<10	140	2.7	<2	3.37	<0.5	16	82	34	3.17
K975318		3.74	<0.005	<0.2	0.31	14	<10	30	0.6	<2	0.48	<0.5	3	12	8	0.78
K975319		0.06	2.05	14.3	0.88	26	<10	20	<0.5	3	0.29	54.8	9	42	4770	8.85
K975320		3.06	<0.005	<0.2	0.26	17	<10	10	<0.5	<2	0.21	<0.5	2	11	4	0.69
K975321		1.36	<0.005	<0.2	0.33	79	<10	20	<0.5	<2	0.34	<0.5	3	10	10	1.06
K975322		2.48	<0.005	<0.2	0.28	70	<10	<10	0.5	<2	1.38	<0.5	3	11	2	0.91
K975323		1.23	<0.005	<0.2	0.07	<2	<10	10	<0.5	<2	19.5	<0.5	2	3	2	0.45
K975324		3.16	<0.005	<0.2	1.84	18	10	70	1.6	<2	5.34	<0.5	18	105	13	3.83
K975325		4.11	<0.005	<0.2	1.06	3	<10	120	<0.5	<2	1.27	<0.5	8	20	3	1.67

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 13- SEP- 2011
Account: F

Project: Arcus - DanMan Core

CERTIFICATE OF ANALYSIS WH11165361

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K974590		<10	1	0.46	10	1.14	292	<1	0.07	27	390	4	0.06	2	3	52
K974591		<10	<1	0.13	20	0.03	81	<1	0.10	<1	70	3	0.02	<2	<1	15
K974592		<10	<1	0.14	20	0.03	100	<1	0.09	<1	70	2	0.02	<2	<1	20
K974593		<10	1	0.15	20	0.06	240	<1	0.07	5	70	7	0.02	<2	1	23
K974594		<10	1	0.14	20	0.04	123	<1	0.08	1	70	4	0.02	<2	<1	20
K974595		<10	1	0.14	30	0.03	132	<1	0.11	<1	50	5	0.03	<2	1	42
K974596		<10	1	0.22	30	0.33	179	<1	0.09	8	250	3	0.04	<2	4	52
K974597		<10	1	0.39	20	0.64	244	<1	0.09	15	400	2	0.07	<2	2	52
K974598		<10	<1	0.16	30	0.08	88	<1	0.11	1	130	3	0.03	<2	1	32
K974599		<10	<1	0.29	40	0.05	187	2	0.06	<1	130	14	0.04	<2	<1	40
K974600		<10	<1	0.60	20	0.50	281	<1	0.08	10	130	5	0.07	<2	3	58
K975301		<10	<1	0.19	20	0.02	43	<1	0.07	<1	20	4	0.02	<2	1	11
K975302		<10	<1	0.18	20	0.03	71	<1	0.08	1	20	3	0.03	<2	1	18
K975303		10	1	1.93	10	2.23	754	<1	0.07	31	580	4	0.14	<2	10	48
K975304		<10	1	0.18	20	0.10	98	<1	0.11	1	40	3	0.02	<2	1	11
K975305		<10	2	0.09	<10	0.96	350	13	0.04	21	110	250	>10.0	<2	2	9
K975306		<10	<1	0.08	20	0.04	79	1	0.10	2	10	11	0.04	<2	2	13
K975307		<10	<1	0.17	20	0.06	87	<1	0.10	3	70	2	0.09	<2	1	17
K975308		<10	<1	0.07	10	0.02	58	<1	0.12	<1	20	<2	0.02	<2	1	9
K975309		<10	<1	0.53	20	0.48	364	<1	0.07	14	250	7	0.06	<2	4	22
K975310		<10	<1	0.16	20	0.04	95	<1	0.06	<1	20	4	0.01	<2	2	10
K975311		<10	<1	0.09	20	0.02	46	<1	0.09	1	10	<2	<0.01	<2	1	6
K975312		<10	<1	0.05	20	0.32	155	<1	0.11	1	10	4	0.01	<2	2	23
K975313		<10	<1	0.01	<10	11.95	215	<1	0.01	2	170	<2	0.01	2	<1	49
K975314		10	<1	2.37	10	3.48	975	<1	0.03	77	730	10	0.05	<2	16	111
K975315		<10	<1	0.13	20	0.12	63	<1	0.09	2	10	5	0.03	<2	1	11
K975316		<10	<1	0.12	20	0.25	91	1	0.10	5	10	12	0.04	<2	1	18
K975317		<10	<1	0.95	10	1.20	662	1	0.04	31	390	9	0.04	<2	11	80
K975318		<10	<1	0.10	10	0.05	164	1	0.07	7	30	6	0.01	<2	2	14
K975319		<10	1	0.09	<10	0.86	320	13	0.01	20	110	245	10.00	<2	2	7
K975320		<10	<1	0.08	20	0.08	55	1	0.08	5	10	5	0.15	<2	1	6
K975321		<10	<1	0.15	30	0.12	77	3	0.07	5	10	11	0.45	2	2	10
K975322		<10	<1	0.09	10	0.49	192	1	0.07	7	20	25	0.08	<2	2	23
K975323		<10	<1	0.05	<10	11.95	213	<1	0.01	4	250	<2	0.01	<2	<1	50
K975324		10	<1	0.47	10	2.51	877	2	0.03	49	600	6	0.12	<2	20	125
K975325		<10	<1	0.52	30	0.64	234	1	0.06	11	480	2	0.02	<2	4	24

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 13- SEP- 2011
Account: F

Project: Arcus - DanMan Core

CERTIFICATE OF ANALYSIS WH11165361

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	Zn- OG46 Zn % 0.001
K974590		<20	0.19	<10	<10	33	<10	20	
K974591		40	<0.01	<10	<10	2	<10	<2	
K974592		40	<0.01	<10	<10	1	<10	<2	
K974593		40	<0.01	<10	<10	3	<10	3	
K974594		40	<0.01	<10	<10	1	<10	<2	
K974595		50	<0.01	<10	<10	2	<10	4	
K974596		30	0.02	<10	10	20	<10	10	
K974597		30	0.13	<10	<10	25	<10	14	
K974598		40	0.01	<10	<10	4	<10	<2	
K974599		40	<0.01	<10	<10	1	<10	<2	
K974600		20	0.05	<10	<10	14	<10	12	
K975301		30	<0.01	<10	<10	1	<10	<2	
K975302		30	<0.01	<10	<10	1	<10	<2	
K975303		<20	0.18	<10	<10	58	<10	38	
K975304		30	0.01	<10	<10	3	<10	4	
K975305		<20	0.02	<10	<10	16	10	>10000	1.295
K975306		30	<0.01	<10	<10	4	<10	23	
K975307		30	<0.01	<10	<10	1	<10	5	
K975308		30	<0.01	<10	<10	1	<10	<2	
K975309		20	0.04	<10	<10	19	<10	23	
K975310		30	0.01	<10	<10	3	<10	9	
K975311		30	0.01	<10	<10	2	<10	5	
K975312		30	0.01	<10	<10	7	<10	18	
K975313		<20	0.01	<10	10	1	<10	16	
K975314		<20	0.16	<10	30	92	<10	66	
K975315		30	0.01	<10	<10	2	<10	6	
K975316		30	0.01	<10	<10	2	<10	13	
K975317		<20	0.08	<10	10	67	<10	58	
K975318		30	0.01	<10	<10	4	<10	15	
K975319		<20	0.03	<10	<10	14	<10	>10000	NSS
K975320		30	0.01	<10	<10	2	<10	10	
K975321		30	0.01	<10	<10	4	<10	7	
K975322		20	0.01	<10	10	7	<10	16	
K975323		<20	0.01	<10	10	1	<10	18	
K975324		<20	0.02	<10	<10	100	<10	56	
K975325		20	0.06	<10	<10	21	<10	17	

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 13- SEP- 2011
Account: F

Project: Arcus - DanMan Core

CERTIFICATE OF ANALYSIS WH11165361

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

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 10- SEP- 2011
Account: F

CERTIFICATE WH11165362

Project: Arcus - Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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VANCOUVER BC V6B 1L8

Finalized Date: 10- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165362

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
J998244		1.84	0.360	0.2	0.34	593	10	800	0.8	<2	0.05	<0.5	2	10	3	0.85
J998245		4.93	0.199	0.2	0.42	309	10	70	0.9	<2	0.06	<0.5	4	15	5	0.60
J998246		2.39	0.573	0.2	0.38	1050	10	290	1.3	<2	0.07	<0.5	5	9	5	1.05
J998247		5.03	<0.005	<0.2	1.01	271	<10	320	2.5	<2	1.79	<0.5	19	129	27	2.76
J998248		2.86	<0.005	<0.2	2.64	30	<10	50	2.8	<2	5.92	<0.5	32	298	45	4.69
J998249		7.02	<0.005	<0.2	2.54	4	<10	380	<0.5	<2	3.85	<0.5	27	416	49	3.06
J998250		6.52	<0.005	<0.2	1.07	41	<10	80	1.7	<2	2.39	<0.5	12	94	28	1.92
J998251		3.89	<0.005	<0.2	0.45	13	<10	30	0.6	<2	0.09	<0.5	2	11	2	0.80
J998252		0.22	0.347	53.3	1.10	98	<10	50	<0.5	<2	0.48	21.7	17	37	4220	4.50
J998253		2.28	0.168	<0.2	0.48	16	<10	30	0.6	<2	0.11	<0.5	3	10	4	0.74
J998254		2.48	<0.005	<0.2	0.47	15	<10	40	0.7	<2	0.44	<0.5	3	10	3	0.83
J998255		4.13	<0.005	<0.2	0.49	15	<10	40	0.6	<2	0.81	<0.5	2	10	2	0.81
J998256		6.85	<0.005	<0.2	0.77	21	<10	50	0.9	<2	0.85	<0.5	6	12	2	1.39
J998257		3.33	<0.005	<0.2	1.13	19	<10	90	1.2	<2	0.18	<0.5	6	9	4	1.75
J998258		0.34	<0.005	<0.2	0.04	<2	<10	10	<0.5	<2	19.2	<0.5	2	3	1	0.44
J998259		1.10	<0.005	<0.2	0.72	7	<10	30	0.6	<2	0.20	<0.5	4	12	4	1.27
J998260		1.50	<0.005	<0.2	2.62	20	<10	210	2.8	<2	0.48	<0.5	12	10	2	3.59
J998261		8.06	<0.005	<0.2	0.48	6	<10	30	0.5	<2	0.86	<0.5	2	8	2	0.54
J998262		0.99	<0.005	<0.2	3.19	4	<10	660	1.9	<2	3.30	<0.5	20	6	9	5.19
J998263		6.64	<0.005	<0.2	0.50	3	<10	10	<0.5	<2	1.03	<0.5	2	11	1	0.51
J998264		6.65	<0.005	<0.2	0.54	11	<10	20	0.6	2	1.39	<0.5	1	3	3	0.62
J998265		0.07	2.10	15.2	0.91	31	<10	30	<0.5	4	0.32	59.9	10	42	5030	9.32
J998266		5.72	<0.005	<0.2	0.41	20	<10	40	0.6	<2	0.94	<0.5	1	2	8	0.48
J998267		2.91	<0.005	<0.2	1.58	13	<10	110	1.5	<2	1.25	<0.5	10	3	4	2.82
J998268		5.44	<0.005	<0.2	0.65	10	<10	60	0.8	<2	1.36	<0.5	4	5	3	1.12
J998269		7.73	<0.005	<0.2	0.34	14	<10	50	0.5	<2	0.93	<0.5	1	3	6	0.39
J998270		5.37	<0.005	<0.2	0.49	13	<10	40	0.6	2	1.04	<0.5	2	8	3	0.81
J998271		0.47	<0.005	<0.2	0.03	2	<10	10	<0.5	<2	19.9	<0.5	<1	1	5	0.50
J998272		4.81	0.009	0.2	0.49	107	<10	60	0.6	<2	0.12	<0.5	1	4	7	0.83
J998273		2.25	0.024	<0.2	0.54	462	<10	130	1.1	<2	0.19	<0.5	8	12	9	2.44
J998274		2.92	0.513	<0.2	0.34	826	10	110	0.6	<2	0.10	<0.5	4	6	4	1.08
J998275		1.08	2.08	0.5	0.64	1455	10	180	2.7	2	0.14	<0.5	9	15	8	2.37
J998276		2.66	0.026	<0.2	0.52	104	<10	30	0.6	<2	0.03	<0.5	1	3	4	0.58
J998277		1.06	0.064	0.2	0.46	42	10	30	0.7	2	0.05	<0.5	<1	2	2	0.27
J998278		2.33	0.005	<0.2	0.45	119	<10	80	0.5	2	0.03	<0.5	2	3	3	1.09
J998279		2.97	0.198	0.5	0.58	255	10	140	1.2	<2	0.09	<0.5	7	8	6	1.82

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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VANCOUVER BC V6B 1L8

Finalized Date: 10- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165362

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
J998244		<10	<1	0.20	10	0.02	126	2	<0.01	6	50	20	0.02	237	<1	37
J998245		<10	<1	0.32	<10	0.03	208	1	<0.01	11	130	39	0.01	73	1	32
J998246		<10	<1	0.22	10	0.04	344	2	<0.01	8	90	37	0.01	75	1	37
J998247		<10	<1	0.24	20	0.26	558	1	0.01	71	230	28	0.01	99	9	41
J998248		10	<1	0.58	10	3.15	838	<1	0.03	150	450	8	0.01	18	22	155
J998249		10	<1	0.19	<10	3.46	586	<1	0.12	160	420	6	0.05	4	13	119
J998250		<10	<1	0.27	30	0.79	468	1	0.02	47	200	14	0.02	9	8	60
J998251		<10	<1	0.21	30	0.09	137	1	0.05	5	110	9	<0.01	3	<1	9
J998252		10	<1	0.54	10	0.65	484	161	0.04	27	890	2160	2.40	63	7	34
J998253		<10	<1	0.15	30	0.09	110	1	0.05	6	110	7	<0.01	3	<1	11
J998254		<10	<1	0.16	30	0.07	151	1	0.06	5	120	5	0.01	4	<1	18
J998255		<10	<1	0.20	30	0.08	218	1	0.04	6	120	11	<0.01	4	<1	17
J998256		<10	<1	0.31	30	0.19	293	1	0.04	6	260	8	0.01	4	1	24
J998257		<10	<1	0.54	20	0.38	170	1	0.04	5	470	9	0.01	4	4	12
J998258		<10	<1	0.02	<10	11.85	198	<1	0.01	3	180	<2	0.01	<2	<1	47
J998259		<10	<1	0.15	20	0.26	128	1	0.07	6	220	3	0.01	6	1	17
J998260		10	<1	1.20	50	1.43	398	1	0.02	6	710	9	0.01	10	6	30
J998261		<10	<1	0.20	30	0.07	149	1	0.06	4	150	6	0.01	2	1	26
J998262		10	<1	1.93	20	1.91	957	1	0.04	3	1730	5	0.02	4	9	135
J998263		<10	<1	0.12	40	0.06	147	1	0.09	4	140	3	<0.01	2	1	57
J998264		<10	<1	0.13	30	0.04	187	<1	0.05	<1	120	4	<0.01	<2	1	58
J998265		<10	2	0.08	<10	0.94	336	12	0.01	23	110	259	>10.0	<2	2	8
J998266		<10	1	0.21	30	0.05	222	<1	0.03	1	110	7	0.01	<2	<1	26
J998267		10	<1	0.80	30	0.87	591	<1	0.03	<1	710	9	<0.01	2	5	43
J998268		<10	1	0.42	40	0.26	320	<1	0.03	1	230	8	<0.01	<2	3	33
J998269		<10	<1	0.23	40	0.03	208	1	0.04	5	90	12	<0.01	<2	<1	26
J998270		<10	1	0.27	40	0.14	222	<1	0.04	3	200	10	<0.01	<2	1	20
J998271		<10	<1	0.01	<10	12.50	225	<1	<0.01	5	160	5	0.02	<2	<1	46
J998272		<10	<1	0.15	20	0.06	145	1	<0.01	5	130	13	<0.01	18	1	9
J998273		<10	<1	0.22	20	0.07	536	<1	<0.01	10	540	10	<0.01	48	3	20
J998274		<10	1	0.22	20	0.02	323	1	<0.01	9	290	23	<0.01	148	1	30
J998275		<10	<1	0.24	20	0.08	601	1	<0.01	18	390	32	<0.01	239	4	247
J998276		<10	<1	0.18	10	0.02	66	<1	<0.01	1	120	20	<0.01	22	<1	13
J998277		<10	1	0.27	<10	0.03	35	<1	<0.01	1	60	24	<0.01	7	<1	9
J998278		<10	1	0.18	50	0.02	183	<1	<0.01	2	180	18	<0.01	28	<1	17
J998279		<10	1	0.25	40	0.07	490	<1	<0.01	11	440	12	<0.01	52	3	20

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

Finalized Date: 10- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165362

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
J998244		40	0.01	<10	<10	1	<10	11	
J998245		<20	0.01	<10	<10	4	<10	26	
J998246		30	0.01	<10	20	3	<10	40	
J998247		20	0.02	<10	<10	46	<10	36	
J998248		<20	0.05	<10	10	130	<10	48	
J998249		<20	0.10	<10	<10	80	<10	30	
J998250		30	0.02	<10	<10	43	<10	28	
J998251		40	0.01	<10	<10	2	<10	10	
J998252		<20	0.09	<10	<10	83	<10	2610	
J998253		40	0.01	<10	<10	3	<10	10	
J998254		30	0.01	<10	<10	3	<10	8	
J998255		40	0.01	<10	<10	2	<10	11	
J998256		30	0.02	<10	<10	12	<10	23	
J998257		30	0.06	<10	<10	35	<10	34	
J998258		<20	0.01	<10	10	1	<10	14	
J998259		40	0.02	<10	<10	11	<10	14	
J998260		20	0.13	<10	<10	81	<10	49	
J998261		40	0.02	<10	<10	3	<10	5	
J998262		<20	0.27	<10	<10	129	<10	102	
J998263		40	0.02	<10	<10	3	<10	4	
J998264		30	<0.01	<10	<10	3	<10	5	
J998265		<20	0.02	<10	<10	15	10	>10000	1.335
J998266		40	<0.01	<10	<10	2	<10	25	
J998267		30	0.10	<10	<10	58	<10	53	
J998268		30	0.03	<10	<10	22	<10	20	
J998269		40	<0.01	<10	<10	1	<10	10	
J998270		30	0.01	<10	<10	7	<10	19	
J998271		<20	<0.01	<10	<10	2	<10	22	
J998272		40	<0.01	<10	<10	5	<10	13	
J998273		30	<0.01	<10	10	16	<10	35	
J998274		30	<0.01	<10	10	4	<10	18	
J998275		20	<0.01	<10	30	15	<10	69	
J998276		40	<0.01	<10	<10	7	<10	6	
J998277		<20	<0.01	<10	<10	3	<10	7	
J998278		30	<0.01	<10	<10	7	<10	16	
J998279		30	<0.01	<10	<10	23	<10	29	

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VANCOUVER BC V6B 1L8

Finalized Date: 9- SEP- 2011
Account: F

CERTIFICATE WH11165363

Project: Arcus - Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SPL- 22Y	Split Sample - Boyd Rotary Splitter
CRU- QC	Crushing QC Test
CRU- 31	Fine crushing - 70% < 2mm
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165363

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
J998280		2.18	0.005	<0.2	1.12	242	<10	180	2.3	3	0.12	<0.5	17	87	30	3.68
J998281		3.78	0.227	<0.2	0.66	129	10	60	1.1	2	0.10	<0.5	3	6	6	1.20
J998282		0.66	<0.005	<0.2	0.04	7	<10	20	<0.5	<2	19.7	<0.5	1	1	<1	0.45
J998283		2.23	0.010	<0.2	1.12	238	<10	170	2.3	2	0.32	<0.5	15	44	19	3.02
J998284		1.19	0.010	<0.2	1.52	87	10	110	1.9	<2	0.15	<0.5	9	17	12	2.29
J998285		1.53	<0.005	<0.2	1.13	52	<10	60	0.9	<2	0.09	<0.5	2	5	6	0.93
J998286		0.36	0.350	56.6	1.13	97	<10	70	<0.5	4	0.51	23.0	16	33	4470	4.77
J998287		2.38	<0.005	<0.2	0.82	52	<10	70	1.0	2	0.06	<0.5	4	12	12	1.32
J998288		3.66	<0.005	0.2	0.66	50	<10	60	0.7	<2	0.05	<0.5	1	8	5	0.82
J998289		2.51	0.033	0.4	0.70	115	<10	80	1.1	<2	0.11	<0.5	6	18	8	1.56
J998290		1.08	<0.005	<0.2	1.21	71	<10	170	1.9	2	0.22	<0.5	19	96	5	3.09
J998291		0.79	<0.005	<0.2	0.73	61	<10	90	0.9	<2	0.08	<0.5	5	29	2	1.35
J998292		2.70	<0.005	<0.2	0.63	69	<10	70	0.7	<2	0.03	<0.5	3	5	3	0.95
J998293		3.41	<0.005	0.5	0.61	93	<10	100	1.1	2	0.03	<0.5	2	8	3	0.95
J998294		2.39	0.047	0.6	0.49	123	<10	140	1.2	3	0.05	<0.5	4	27	11	1.33
J998295		4.88	0.008	<0.2	0.51	10	<10	30	0.9	<2	0.02	<0.5	1	6	6	0.45
J998296		2.67	<0.005	0.2	0.68	15	<10	50	2.5	2	0.04	<0.5	4	29	5	1.41
J998297		6.19	<0.005	0.2	0.49	8	<10	30	1.0	<2	0.04	<0.5	1	4	2	0.35
J998298		0.37	0.333	56.2	1.15	104	<10	70	<0.5	2	0.52	22.9	16	34	4550	4.72
J998299		2.82	<0.005	0.2	0.73	17	<10	40	1.7	<2	0.03	<0.5	1	5	6	0.73
I079901		1.24	<0.005	<0.2	0.04	<2	<10	10	<0.5	<2	18.3	<0.5	1	1	4	0.40
I079902		6.84	<0.005	<0.2	0.62	<2	<10	40	1.1	<2	0.03	<0.5	1	3	2	0.47
I079903		2.80	<0.005	<0.2	0.96	12	<10	110	1.7	<2	0.09	<0.5	3	4	2	1.08
I079904		3.99	<0.005	<0.2	0.68	11	<10	70	1.2	<2	0.05	<0.5	1	4	1	0.67
I079905		4.13	<0.005	<0.2	0.63	15	<10	40	1.3	<2	0.03	<0.5	1	3	2	0.66
I079906		4.54	<0.005	<0.2	0.55	11	<10	30	0.9	<2	0.02	<0.5	1	4	1	0.42
I079907		6.12	<0.005	<0.2	0.68	12	<10	30	0.9	<2	0.12	<0.5	<1	4	<1	0.44
I079908		6.37	0.007	0.2	0.50	9	<10	30	0.9	<2	0.04	<0.5	1	6	1	0.51
I079909		3.02	<0.005	<0.2	0.44	2	<10	50	0.7	<2	0.47	<0.5	1	4	2	0.43
I079910		5.17	<0.005	<0.2	0.35	2	<10	20	0.6	<2	0.48	<0.5	<1	5	1	0.47
I079911		8.00	<0.005	<0.2	0.45	5	<10	30	0.7	<2	0.31	<0.5	<1	8	1	0.44
I079912		2.21	<0.005	<0.2	0.61	6	<10	30	0.9	<2	0.16	<0.5	<1	6	2	0.46
I079913		4.68	<0.005	<0.2	0.51	14	<10	30	1.1	<2	0.25	<0.5	1	4	1	0.68
I079914		4.20	<0.005	<0.2	0.50	5	<10	40	0.9	<2	0.11	<0.5	<1	5	1	0.60
I079915		1.95	<0.005	<0.2	0.51	3	<10	40	1.0	<2	0.14	<0.5	1	3	1	0.54
I079916		5.30	<0.005	<0.2	0.49	10	<10	40	0.9	<2	0.05	<0.5	<1	6	1	0.70

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Finalized Date: 9- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11165363

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
J998280		<10	<1	0.33	20	0.32	840	<1	<0.01	37	550	14	<0.01	86	13	10
J998281		<10	1	0.24	20	0.06	220	<1	<0.01	3	360	21	<0.01	12	2	11
J998282		<10	<1	0.01	<10	12.40	208	<1	<0.01	2	140	3	0.01	<2	1	66
J998283		10	1	0.35	20	0.30	736	<1	<0.01	26	850	30	<0.01	65	9	12
J998284		10	1	0.37	20	0.12	443	<1	<0.01	16	610	13	<0.01	13	5	12
J998285		<10	<1	0.15	10	0.06	213	<1	<0.01	5	140	8	<0.01	6	1	6
J998286		10	1	0.54	10	0.69	497	162	0.04	23	920	2230	2.49	63	7	35
J998287		<10	<1	0.22	20	0.10	288	<1	<0.01	7	270	19	<0.01	6	2	11
J998288		<10	<1	0.18	30	0.04	165	1	<0.01	2	180	17	<0.01	13	1	10
J998289		<10	<1	0.20	40	0.07	318	<1	<0.01	14	430	20	<0.01	7	2	19
J998290		<10	<1	0.29	30	0.22	705	<1	<0.01	75	910	9	<0.01	8	6	23
J998291		<10	1	0.20	20	0.12	263	<1	<0.01	20	290	4	<0.01	12	2	17
J998292		<10	<1	0.14	40	0.03	245	<1	<0.01	9	180	8	<0.01	20	1	9
J998293		<10	1	0.15	30	0.03	242	1	<0.01	10	120	10	<0.01	32	1	15
J998294		<10	<1	0.19	20	0.04	408	5	<0.01	12	180	14	<0.01	43	1	40
J998295		<10	1	0.16	20	0.02	98	<1	<0.01	2	40	4	<0.01	<2	1	9
J998296		<10	<1	0.24	20	0.12	225	<1	0.03	10	60	12	<0.01	<2	5	16
J998297		<10	1	0.19	30	0.02	133	<1	0.02	<1	50	4	<0.01	<2	<1	10
J998298		10	1	0.54	10	0.70	504	161	0.04	24	920	2270	2.53	62	7	36
J998299		<10	1	0.13	30	0.03	206	1	<0.01	2	80	13	<0.01	<2	1	9
I079901		<10	<1	0.02	<10	11.60	189	<1	0.03	1	170	<2	<0.01	3	<1	47
I079902		<10	<1	0.17	30	0.03	149	<1	0.05	1	60	7	<0.01	<2	<1	7
I079903		<10	<1	0.35	40	0.14	227	<1	0.03	2	340	9	<0.01	<2	2	23
I079904		<10	<1	0.22	30	0.04	179	<1	0.03	<1	170	7	<0.01	<2	1	17
I079905		<10	<1	0.19	20	0.02	146	<1	0.04	2	90	8	<0.01	<2	1	9
I079906		<10	<1	0.15	20	0.01	139	1	0.03	<1	70	5	<0.01	<2	<1	6
I079907		<10	<1	0.20	20	0.02	129	1	0.04	<1	70	4	<0.01	<2	<1	9
I079908		<10	1	0.20	30	0.03	150	1	0.05	<1	110	6	<0.01	<2	<1	7
I079909		<10	<1	0.24	30	0.04	154	<1	0.06	<1	90	5	<0.01	<2	<1	18
I079910		<10	<1	0.21	20	0.03	123	1	0.06	<1	90	3	<0.01	<2	<1	17
I079911		<10	<1	0.22	20	0.03	105	1	0.08	<1	80	4	<0.01	<2	<1	13
I079912		<10	<1	0.18	20	0.02	163	1	0.04	<1	80	6	<0.01	<2	<1	8
I079913		<10	<1	0.17	20	0.02	201	1	0.03	<1	80	9	<0.01	<2	<1	10
I079914		<10	<1	0.20	30	0.04	152	1	0.05	<1	120	7	<0.01	<2	1	12
I079915		<10	<1	0.23	30	0.03	166	1	0.06	<1	110	6	<0.01	<2	<1	12
I079916		<10	<1	0.15	20	0.03	153	1	0.04	<1	80	3	<0.01	<2	1	7

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CERTIFICATE OF ANALYSIS WH11165363

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
J998280		<20	0.02	<10	10	63	<10	52
J998281		30	<0.01	<10	<10	16	<10	19
J998282		<20	<0.01	<10	<10	2	<10	16
J998283		20	0.01	<10	<10	57	<10	63
J998284		30	0.01	<10	<10	33	<10	37
J998285		30	<0.01	<10	<10	8	<10	16
J998286		<20	0.09	<10	<10	89	10	2680
J998287		30	0.01	<10	<10	18	<10	30
J998288		40	<0.01	<10	<10	8	<10	16
J998289		30	<0.01	<10	<10	14	<10	23
J998290		20	0.01	<10	20	31	<10	58
J998291		30	0.01	<10	10	14	<10	21
J998292		40	<0.01	<10	<10	12	<10	17
J998293		40	<0.01	<10	10	14	<10	15
J998294		30	<0.01	<10	<10	14	20	17
J998295		40	<0.01	<10	<10	3	<10	7
J998296		30	0.01	<10	<10	23	<10	38
J998297		40	<0.01	<10	<10	1	<10	5
J998298		<20	0.09	<10	<10	90	10	2720
J998299		40	<0.01	<10	10	4	<10	20
I079901		<20	<0.01	<10	<10	2	<10	18
I079902		40	<0.01	<10	<10	1	<10	10
I079903		30	0.01	<10	<10	11	<10	27
I079904		40	<0.01	<10	<10	4	<10	14
I079905		40	<0.01	<10	10	3	<10	14
I079906		40	<0.01	<10	10	2	<10	9
I079907		40	<0.01	<10	<10	2	<10	9
I079908		40	<0.01	<10	<10	1	<10	8
I079909		40	<0.01	<10	<10	1	<10	5
I079910		40	<0.01	<10	<10	1	<10	6
I079911		40	<0.01	<10	<10	1	<10	8
I079912		40	<0.01	<10	<10	2	<10	11
I079913		40	<0.01	<10	<10	2	<10	16
I079914		40	<0.01	<10	<10	2	<10	18
I079915		40	<0.01	<10	<10	2	<10	19
I079916		40	<0.01	<10	<10	2	<10	16

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

Finalized Date: 22- SEP- 2011
Account: F

CERTIFICATE WH11165364

Project: Arcus - Danman

P.O. No.:

This report is for 59 Soil samples submitted to our lab in Whitehorse, YT, Canada on 20- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: Arcus - Danman

CERTIFICATE OF ANALYSIS WH11165364

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ20143		0.24	0.003	0.3	1.58	6	<10	170	<0.5	<2	0.45	<0.5	10	26	29	2.78
ZZ20144		0.16	0.002	0.2	1.53	6	<10	200	<0.5	<2	0.27	<0.5	8	23	16	2.86
ZZ20146		0.12	0.006	<0.2	1.39	4	<10	100	<0.5	<2	0.15	<0.5	7	23	12	2.64
ZZ20147		0.14	0.002	0.3	1.71	7	<10	220	<0.5	<2	0.21	<0.5	6	29	13	3.53
ZZ20148		0.12	0.001	<0.2	1.80	11	<10	120	<0.5	<2	0.18	<0.5	6	30	11	3.87
ZZ20149		0.24	0.004	0.2	2.61	10	<10	240	0.5	<2	0.18	<0.5	13	50	22	4.09
ZZ20150		0.20	0.001	<0.2	2.90	5	<10	230	0.6	<2	0.22	<0.5	13	107	30	4.40
ZZ20151		0.24	0.003	0.2	1.92	9	<10	430	0.5	<2	0.53	<0.5	13	94	36	3.26
ZZ20152		0.18	0.002	0.2	1.81	8	<10	430	<0.5	<2	0.52	<0.5	13	92	29	3.05
ZZ20153		0.20	0.001	0.2	1.75	12	<10	370	<0.5	<2	0.51	<0.5	11	78	28	3.02
ZZ20154		0.10	0.002	0.4	1.64	12	<10	480	0.5	<2	0.63	<0.5	15	126	47	2.82
ZZ20155		0.24	0.008	0.4	1.68	11	<10	280	0.5	<2	0.76	<0.5	13	66	31	3.08
ZZ20156		0.12	0.005	0.4	1.22	9	<10	330	<0.5	<2	1.60	<0.5	10	34	30	2.11
ZZ20157		0.14	0.005	0.3	1.31	6	<10	350	<0.5	<2	1.35	<0.5	9	31	27	2.17
ZZ20158		0.08	0.004	0.2	1.49	6	<10	400	<0.5	<2	1.07	<0.5	12	49	28	2.50
ZZ20159		0.22	0.005	0.3	1.64	9	<10	260	<0.5	<2	0.73	<0.5	11	28	33	2.74
ZZ20160		0.18	0.012	0.8	1.62	12	<10	130	<0.5	<2	0.26	1.9	7	26	41	3.18
ZZ20161		0.12	0.005	0.5	0.75	4	<10	60	<0.5	<2	0.25	1.7	3	14	16	1.23
ZZ20941		0.20	0.001	0.2	1.47	3	<10	180	<0.5	<2	0.35	<0.5	10	30	40	2.63
ZZ20942		0.16	0.001	0.3	1.42	5	<10	210	<0.5	<2	0.50	<0.5	8	29	42	2.45
ZZ20943		0.22	0.003	0.2	2.30	7	<10	200	0.5	<2	0.14	<0.5	10	39	25	3.60
ZZ20944		0.20	0.001	0.2	1.98	10	<10	260	<0.5	<2	0.33	<0.5	11	34	16	3.39
ZZ20945		0.22	0.002	0.2	1.66	6	<10	190	<0.5	<2	0.26	<0.5	9	30	13	2.98
ZZ20946		0.16	0.002	<0.2	1.53	3	<10	210	<0.5	<2	0.38	<0.5	9	28	32	3.02
ZZ20947		0.08	<0.001	0.3	1.17	3	<10	570	<0.5	<2	2.49	<0.5	6	20	36	1.62
ZZ20948		0.16	0.068	0.2	1.52	4	<10	170	<0.5	<2	0.38	<0.5	9	31	35	2.83
ZZ20949		0.14	0.003	0.5	1.40	4	<10	180	<0.5	<2	0.27	<0.5	10	29	16	2.61
ZZ20950		0.18	<0.001	0.4	1.04	3	<10	230	<0.5	<2	0.65	<0.5	6	19	21	2.18
ZZ20951		0.24	<0.001	<0.2	1.69	5	<10	220	<0.5	<2	0.44	<0.5	9	32	16	2.60
ZZ20952		0.20	0.006	0.2	1.81	4	<10	210	<0.5	<2	0.58	<0.5	11	35	32	2.98
ZZ20953		0.24	0.001	0.2	1.67	4	<10	240	<0.5	<2	0.30	<0.5	12	29	19	2.62
ZZ20954		0.12	0.001	0.2	1.59	2	<10	220	<0.5	2	1.22	<0.5	10	24	46	2.40
ZZ20955		0.18	0.002	<0.2	2.08	3	<10	170	<0.5	<2	0.70	<0.5	13	27	12	3.01
ZZ20956		0.24	0.001	0.7	1.85	9	<10	270	<0.5	<2	0.41	<0.5	9	30	18	2.90
ZZ20957		0.18	0.002	<0.2	1.66	6	<10	440	0.5	<2	1.12	<0.5	11	39	33	2.81
ZZ20958		0.18	0.001	0.3	2.06	2	<10	660	0.5	3	0.50	<0.5	17	145	39	3.17
ZZ20959		0.24	<0.001	<0.2	1.68	6	<10	340	<0.5	<2	0.32	<0.5	8	47	16	2.86
ZZ20960		0.24	<0.001	<0.2	2.16	6	<10	190	0.5	2	0.18	<0.5	12	44	34	3.25
ZZ20962		0.30	0.003	0.6	2.06	9	<10	160	<0.5	<2	0.38	1.4	9	34	22	3.02
ZZ20981		0.14	0.012	0.6	1.16	3	<10	80	<0.5	<2	0.32	1.2	4	18	20	1.60

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Finalized Date: 22- SEP- 2011
Account: F

Project: Arcus - Danman

CERTIFICATE OF ANALYSIS WH11165364

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20143		10	<1	0.06	10	0.56	328	<1	0.03	16	1840	8	0.02	<2	3	24
ZZ20144		10	<1	0.04	10	0.45	702	<1	0.02	14	1070	8	0.02	<2	3	20
ZZ20146		10	<1	0.04	10	0.37	458	<1	0.02	11	880	7	0.02	<2	1	13
ZZ20147		10	<1	0.05	10	0.37	271	1	0.01	11	530	11	0.02	<2	3	18
ZZ20148		10	<1	0.05	10	0.44	185	1	0.01	13	690	9	0.02	<2	3	19
ZZ20149		10	<1	0.07	10	1.00	285	<1	0.01	25	380	17	0.02	<2	3	19
ZZ20150		10	<1	0.57	10	1.75	406	<1	0.02	39	410	9	0.02	<2	6	17
ZZ20151		10	<1	0.23	10	1.15	335	<1	0.02	41	700	9	0.03	<2	5	32
ZZ20152		10	<1	0.22	10	1.11	305	<1	0.02	39	730	7	0.03	<2	4	31
ZZ20153		10	<1	0.19	10	1.01	274	<1	0.02	35	670	10	0.03	<2	4	30
ZZ20154		10	1	0.15	30	0.97	448	1	0.03	104	440	10	0.04	<2	5	42
ZZ20155		10	1	0.25	20	1.01	421	2	0.02	31	800	16	0.04	<2	5	41
ZZ20156		<10	<1	0.07	10	0.55	429	1	0.03	19	500	20	0.08	<2	3	84
ZZ20157		<10	<1	0.09	10	0.60	332	1	0.03	19	580	10	0.07	<2	3	85
ZZ20158		10	<1	0.11	10	0.76	281	2	0.03	23	480	14	0.08	<2	4	56
ZZ20159		10	<1	0.10	10	0.72	313	<1	0.03	17	870	19	0.06	<2	5	37
ZZ20160		10	<1	0.09	10	0.68	271	1	0.03	9	830	41	0.14	<2	5	42
ZZ20161		<10	<1	0.03	<10	0.19	79	<1	0.02	5	560	37	0.08	<2	1	31
ZZ20941		10	<1	0.09	10	0.60	229	1	0.02	15	370	6	0.02	<2	3	24
ZZ20942		<10	<1	0.13	10	0.60	199	<1	0.02	16	450	6	0.03	<2	3	31
ZZ20943		10	1	0.04	10	0.46	259	1	0.02	20	340	12	0.02	<2	4	15
ZZ20944		10	<1	0.23	10	0.61	388	<1	0.02	20	560	8	0.02	<2	3	29
ZZ20945		10	<1	0.05	10	0.50	356	1	0.02	14	630	9	0.02	<2	3	21
ZZ20946		10	<1	0.14	10	0.84	303	<1	0.02	16	860	4	0.03	<2	4	24
ZZ20947		<10	<1	0.04	10	0.44	1435	<1	0.03	18	620	8	0.09	<2	2	74
ZZ20948		10	<1	0.12	10	0.67	245	<1	0.02	16	530	6	0.03	<2	4	22
ZZ20949		10	<1	0.06	10	0.40	391	1	0.02	15	300	38	0.02	<2	3	21
ZZ20950		10	<1	0.08	<10	0.33	426	<1	0.02	12	1340	9	0.03	<2	2	44
ZZ20951		10	<1	0.05	10	0.59	287	<1	0.03	17	270	7	0.02	<2	4	25
ZZ20952		10	<1	0.07	10	0.78	442	<1	0.02	17	530	6	0.03	<2	5	24
ZZ20953		10	<1	0.04	10	0.50	719	<1	0.02	16	240	9	0.02	<2	3	22
ZZ20954		<10	<1	0.10	10	0.55	490	1	0.03	22	760	9	0.06	<2	5	38
ZZ20955		<10	<1	0.05	<10	0.98	508	<1	0.03	15	410	4	0.02	<2	4	20
ZZ20956		10	<1	0.05	10	0.54	252	1	0.02	18	200	29	0.01	<2	4	24
ZZ20957		<10	<1	0.05	10	0.67	523	<1	0.03	28	690	8	0.04	2	6	36
ZZ20958		10	<1	0.35	10	1.38	412	1	0.03	59	740	6	0.02	<2	4	30
ZZ20959		10	1	0.14	10	0.62	254	1	0.02	24	140	10	0.01	<2	4	23
ZZ20960		10	<1	0.11	20	0.86	208	<1	0.01	36	130	8	0.02	<2	4	18
ZZ20962		10	<1	0.03	10	0.54	276	3	0.02	20	340	25	0.01	2	4	36
ZZ20981		10	<1	0.01	<10	0.29	96	2	0.02	10	800	29	0.06	2	2	34

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Finalized Date: 22- SEP- 2011
Account: F

Project: Arcus - Danman

CERTIFICATE OF ANALYSIS WH11165364

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ20143		<20	0.09	<10	<10	67	<10	48
ZZ20144		<20	0.08	<10	<10	68	<10	52
ZZ20146		<20	0.04	<10	<10	60	<10	51
ZZ20147		<20	0.07	<10	<10	78	<10	57
ZZ20148		<20	0.10	<10	<10	87	<10	46
ZZ20149		<20	0.13	<10	<10	84	<10	61
ZZ20150		<20	0.22	<10	<10	94	<10	77
ZZ20151		<20	0.14	<10	<10	72	<10	63
ZZ20152		<20	0.13	<10	<10	68	<10	58
ZZ20153		<20	0.13	<10	<10	67	<10	58
ZZ20154		<20	0.11	<10	<10	58	<10	50
ZZ20155		<20	0.11	<10	<10	62	<10	77
ZZ20156		<20	0.07	<10	<10	46	<10	56
ZZ20157		<20	0.07	<10	<10	46	<10	48
ZZ20158		<20	0.10	<10	<10	56	<10	48
ZZ20159		<20	0.09	<10	<10	61	<10	66
ZZ20160		<20	0.10	<10	<10	71	<10	306
ZZ20161		<20	0.04	<10	<10	25	<10	105
ZZ20941		<20	0.09	<10	<10	60	<10	50
ZZ20942		<20	0.09	<10	<10	55	<10	45
ZZ20943		<20	0.09	<10	<10	77	<10	55
ZZ20944		<20	0.10	<10	<10	76	<10	51
ZZ20945		<20	0.09	<10	<10	72	<10	42
ZZ20946		<20	0.15	<10	<10	70	<10	73
ZZ20947		<20	0.05	<10	<10	39	<10	29
ZZ20948		<20	0.11	<10	<10	66	<10	46
ZZ20949		<20	0.09	<10	<10	67	<10	49
ZZ20950		<20	0.08	<10	<10	48	<10	48
ZZ20951		<20	0.10	<10	<10	64	<10	44
ZZ20952		<20	0.09	<10	<10	66	<10	51
ZZ20953		<20	0.08	<10	<10	61	<10	36
ZZ20954		<20	0.06	<10	<10	50	<10	42
ZZ20955		<20	0.09	<10	<10	70	<10	46
ZZ20956		<20	0.07	<10	<10	66	<10	64
ZZ20957		<20	0.07	<10	<10	57	<10	54
ZZ20958		<20	0.17	<10	<10	76	<10	52
ZZ20959		<20	0.12	<10	<10	67	<10	45
ZZ20960		<20	0.14	<10	<10	58	<10	59
ZZ20962		<20	0.10	<10	<10	77	<10	153
ZZ20981		<20	0.06	<10	<10	28	<10	83

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ20982		0.10	0.005	0.4	1.40	6	<10	80	<0.5	<2	0.18	0.5	6	19	25	2.04
ZZ20983		0.32	0.003	0.5	2.45	10	<10	230	<0.5	2	0.40	<0.5	13	40	63	3.93
ZZ20984		0.20	0.001	0.3	1.59	4	<10	400	<0.5	2	0.52	9.2	12	25	16	2.56
ZZ20985		0.18	0.005	0.5	2.00	10	<10	190	<0.5	2	0.36	0.9	10	27	34	3.04
ZZ20986		0.18	0.003	0.8	1.81	8	<10	130	<0.5	<2	0.28	1.0	11	27	35	3.49
ZZ20987		0.26	0.004	0.7	2.28	7	<10	110	<0.5	2	0.53	0.7	13	58	74	3.49
ZZ20988		0.14	0.003	0.9	2.17	5	<10	100	<0.5	<2	0.48	0.8	13	45	72	3.30
ZZ20989		0.22	0.003	0.6	2.11	5	<10	100	<0.5	2	0.47	0.9	12	46	77	3.41
ZZ20990		0.18	0.028	1.1	2.03	10	<10	130	<0.5	2	0.59	1.5	15	75	65	4.00
ZZ20991		0.16	0.011	0.4	1.95	5	<10	770	<0.5	2	0.87	<0.5	12	118	39	2.82
ZZ20992		0.18	0.005	0.3	2.00	43	<10	800	0.7	2	1.08	<0.5	17	200	67	3.02
ZZ20993		0.18	<0.001	<0.2	2.27	56	<10	620	1.4	<2	0.72	<0.5	30	204	62	5.75
ZZ20994		0.30	<0.001	<0.2	1.67	6	<10	270	<0.5	<2	0.76	<0.5	11	29	28	2.70
ZZ20995		0.26	<0.001	0.2	1.59	8	<10	260	<0.5	<2	0.75	<0.5	10	27	25	2.58
ZZ20996		0.24	<0.001	<0.2	1.65	5	<10	220	<0.5	<2	0.87	<0.5	10	28	21	2.58
ZZ20997		0.24	<0.001	<0.2	2.02	6	<10	420	<0.5	<2	0.67	<0.5	19	196	46	3.04
ZZ20998		0.26	0.006	0.2	1.73	13	<10	250	<0.5	2	0.52	<0.5	10	95	24	2.66
ZZ20999		0.12	0.006	0.3	1.80	8	<10	650	<0.5	<2	1.27	0.8	13	163	37	2.37
ZZ21000		0.20	<0.001	0.2	1.59	9	<10	360	<0.5	<2	0.44	<0.5	11	67	21	2.41

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Project: Arcus - Danman

CERTIFICATE OF ANALYSIS WH11165364

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ20982		10	<1	0.01	10	0.25	136	4	0.02	12	410	17	0.02	<2	2	21
ZZ20983		10	<1	0.02	10	0.69	384	5	0.02	23	380	36	0.01	<2	5	36
ZZ20984		10	<1	0.04	10	0.38	1930	5	0.03	15	820	14	0.02	<2	3	41
ZZ20985		10	<1	0.03	10	0.53	581	18	0.03	16	480	22	0.02	<2	4	31
ZZ20986		10	<1	0.02	10	0.48	347	7	0.02	14	650	34	0.02	<2	3	28
ZZ20987		10	<1	0.03	<10	0.86	223	1	0.03	31	980	49	0.02	<2	5	39
ZZ20988		10	<1	0.03	<10	0.76	272	1	0.03	23	1040	78	0.02	<2	4	37
ZZ20989		10	<1	0.03	<10	0.77	225	1	0.03	24	960	80	0.02	<2	4	37
ZZ20990		10	<1	0.15	10	1.14	461	9	0.03	56	700	152	0.02	2	5	39
ZZ20991		10	<1	0.29	10	1.24	241	<1	0.02	49	260	10	0.04	<2	4	44
ZZ20992		10	<1	0.31	20	1.52	572	<1	0.03	88	890	7	0.06	<2	8	62
ZZ20993		10	<1	0.82	20	1.59	774	1	0.02	90	2440	16	0.02	2	14	27
ZZ20994		10	<1	0.03	10	0.63	432	<1	0.03	20	580	7	0.02	<2	5	32
ZZ20995		<10	<1	0.03	10	0.58	432	<1	0.03	19	550	9	0.03	2	5	31
ZZ20996		<10	<1	0.03	10	0.59	411	<1	0.03	16	380	9	0.03	<2	5	35
ZZ20997		10	<1	0.54	10	1.66	391	<1	0.02	66	1660	7	0.01	<2	4	21
ZZ20998		10	<1	0.06	10	0.90	227	1	0.02	31	400	21	0.02	<2	5	24
ZZ20999		10	<1	0.19	10	1.30	528	1	0.03	58	950	23	0.05	<2	4	38
ZZ21000		10	<1	0.11	10	0.71	429	1	0.02	30	610	20	0.02	<2	4	27

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 22- SEP- 2011
Account: F

Project: Arcus - Danman

CERTIFICATE OF ANALYSIS WH11165364

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ20982		<20	0.07	<10	<10	53	<10	45
ZZ20983		<20	0.13	<10	<10	110	<10	113
ZZ20984		<20	0.08	<10	<10	65	<10	339
ZZ20985		<20	0.11	<10	<10	87	<10	135
ZZ20986		<20	0.13	<10	<10	104	<10	112
ZZ20987		<20	0.14	<10	<10	95	<10	86
ZZ20988		<20	0.13	<10	<10	89	<10	95
ZZ20989		<20	0.13	<10	<10	90	<10	82
ZZ20990		<20	0.20	<10	<10	110	<10	296
ZZ20991		<20	0.15	<10	<10	66	<10	63
ZZ20992		<20	0.10	<10	<10	68	<10	58
ZZ20993		<20	0.13	<10	<10	135	<10	105
ZZ20994		<20	0.08	<10	<10	60	<10	50
ZZ20995		<20	0.08	<10	<10	56	<10	51
ZZ20996		<20	0.08	<10	<10	59	<10	48
ZZ20997		<20	0.17	<10	<10	83	<10	57
ZZ20998		<20	0.13	<10	<10	70	<10	98
ZZ20999		<20	0.11	<10	<10	58	<10	81
ZZ21000		<20	0.10	<10	<10	54	<10	71

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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- SEP- 2011
Account: F

CERTIFICATE WH11170801

Project: Arcus - Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11170801

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
K976912		2.47	0.045	<0.2	0.44	440	<10	210	7.8	3	0.05	1.6	14	12	11	3.21
K976913		1.93	0.009	<0.2	0.72	141	<10	70	4.2	3	0.05	0.9	8	16	10	1.75
K976914		3.17	0.016	0.4	0.73	65	<10	60	2.9	3	0.06	0.6	6	8	10	1.37
K976915		1.81	0.039	<0.2	0.56	95	<10	80	3.7	3	0.06	0.8	10	8	9	2.49
K976916		3.26	0.117	0.3	0.26	34	<10	40	0.8	2	0.04	<0.5	1	2	4	0.63
K976917		0.21	0.327	53.5	1.12	97	<10	60	<0.5	4	0.50	21.4	16	32	4240	4.60
K976918		3.34	0.384	<0.2	0.31	51	<10	110	1.0	3	3.02	0.9	5	6	13	1.54
K976919		2.82	0.170	<0.2	0.28	22	<10	150	0.8	3	0.04	<0.5	1	3	3	0.64
K976920		2.81	0.281	<0.2	0.28	40	<10	50	0.9	3	0.17	<0.5	1	2	3	0.85
K976921		2.58	0.139	0.2	0.30	13	<10	10	1.0	3	0.94	<0.5	1	2	3	0.84
K976922		3.82	0.209	<0.2	0.26	20	<10	20	1.1	2	0.92	<0.5	1	2	5	0.58
K976923		3.30	0.246	<0.2	0.29	32	<10	10	1.3	3	0.91	<0.5	1	2	3	0.74
K976924		2.00	0.106	<0.2	0.32	27	<10	10	1.6	2	1.84	<0.5	3	2	5	0.91
K976925		1.43	0.091	<0.2	0.34	33	<10	10	2.0	3	1.69	<0.5	3	2	4	1.00
K976926		0.62	<0.005	<0.2	0.02	3	<10	10	<0.5	<2	18.5	<0.5	1	<1	<1	0.45
K976927		0.79	0.310	0.2	0.70	194	<10	20	8.6	3	1.50	<0.5	10	8	5	1.56
K976928		2.59	0.213	<0.2	0.36	57	<10	10	1.9	4	2.71	<0.5	5	5	10	1.55
K976929		3.59	0.525	<0.2	0.36	191	<10	20	2.2	5	4.14	<0.5	13	9	10	2.92
K976930		1.03	0.224	<0.2	0.48	127	<10	20	1.7	3	1.70	<0.5	4	3	8	1.13
K976931		2.27	0.218	<0.2	0.37	64	<10	10	1.3	3	1.58	<0.5	5	3	5	1.28
K976932		4.47	0.049	<0.2	0.25	18	<10	10	1.1	4	0.95	<0.5	4	2	7	0.73
K976933		1.90	0.239	<0.2	0.32	31	<10	20	1.1	4	0.87	<0.5	4	3	3	0.91
K976934		1.54	0.227	<0.2	0.27	37	<10	30	1.2	3	1.93	<0.5	4	3	7	1.32
K976935		4.11	0.084	<0.2	0.27	20	<10	10	1.2	3	2.18	<0.5	4	5	3	1.17
K976936		0.82	<0.005	<0.2	0.03	3	<10	10	<0.5	2	18.5	<0.5	<1	<1	<1	0.45
K976937		3.35	0.006	<0.2	0.85	6	<10	<10	3.2	5	7.6	<0.5	8	50	4	2.34
K976938		2.26	0.023	<0.2	0.60	23	<10	30	3.1	5	4.81	<0.5	6	33	9	1.57
K976939		0.53	<0.005	<0.2	0.84	23	<10	20	4.0	4	0.65	<0.5	7	37	180	1.93
K976940		2.53	0.037	<0.2	0.54	44	<10	60	2.4	5	0.08	<0.5	8	9	18	1.92
K976941		0.95	0.008	<0.2	0.74	47	<10	70	3.8	5	0.07	<0.5	6	44	7	2.19
K976942		1.34	<0.005	0.3	1.33	28	<10	40	3.3	5	0.13	<0.5	9	40	25	2.63
K976943		1.09	<0.005	0.2	1.84	18	<10	60	4.3	7	0.35	<0.5	16	86	20	3.61
K976944		0.06	2.15	14.8	0.96	27	<10	40	<0.5	5	0.31	56.5	10	42	5020	9.35
K976945		1.74	<0.005	<0.2	1.21	13	<10	70	1.7	4	0.14	<0.5	10	25	9	2.50
K976946		4.24	<0.005	<0.2	0.95	12	<10	40	1.2	4	2.21	<0.5	5	8	4	1.45
K976947		4.14	<0.005	<0.2	1.54	16	<10	130	1.3	5	2.54	<0.5	7	23	5	2.02

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11170801

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K976912		<10	<1	0.20	10	0.04	393	<1	<0.01	27	370	51	0.01	9	3	317
K976913		<10	<1	0.20	20	0.05	412	<1	<0.01	10	140	43	0.01	2	3	21
K976914		<10	<1	0.13	20	0.05	435	<1	<0.01	10	110	46	0.01	<2	3	14
K976915		<10	1	0.20	10	0.05	475	<1	<0.01	14	140	37	0.01	2	4	26
K976916		<10	<1	0.16	20	0.01	156	<1	<0.01	4	40	7	0.01	<2	<1	14
K976917		10	1	0.54	10	0.67	470	160	0.04	25	860	2150	2.40	61	7	37
K976918		<10	1	0.20	20	0.03	375	<1	<0.01	11	160	18	0.01	<2	2	66
K976919		<10	<1	0.19	20	0.01	61	<1	<0.01	2	40	5	0.01	<2	<1	18
K976920		<10	<1	0.19	10	0.01	85	<1	<0.01	3	40	6	0.11	<2	<1	13
K976921		<10	<1	0.22	20	0.06	128	<1	<0.01	2	50	4	0.26	<2	<1	31
K976922		<10	<1	0.19	10	0.02	67	<1	<0.01	2	30	5	0.25	<2	<1	41
K976923		<10	<1	0.16	10	0.03	67	<1	<0.01	5	30	6	0.59	<2	<1	30
K976924		<10	<1	0.22	10	0.37	243	<1	<0.01	5	50	5	0.78	<2	1	54
K976925		<10	<1	0.16	10	0.39	245	<1	<0.01	7	40	6	0.90	<2	1	58
K976926		<10	1	0.01	<10	12.00	210	<1	<0.01	1	150	<2	0.01	<2	<1	45
K976927		<10	<1	0.24	<10	0.54	239	2	0.01	52	70	42	1.46	8	3	155
K976928		<10	<1	0.21	10	0.90	400	<1	<0.01	12	40	8	1.38	<2	3	78
K976929		<10	<1	0.22	<10	1.76	671	<1	0.01	30	110	14	2.25	<2	6	149
K976930		<10	<1	0.16	10	0.42	216	<1	<0.01	9	40	7	0.87	<2	1	68
K976931		<10	<1	0.15	10	0.54	242	<1	<0.01	7	30	5	0.86	<2	1	51
K976932		<10	<1	0.15	10	0.35	139	<1	<0.01	6	30	3	0.50	<2	1	48
K976933		<10	<1	0.18	10	0.37	140	<1	<0.01	6	30	3	0.63	<2	1	48
K976934		<10	<1	0.16	10	0.58	317	<1	<0.01	6	60	4	0.43	<2	1	55
K976935		<10	<1	0.14	10	0.60	258	<1	<0.01	5	50	4	0.30	<2	2	64
K976936		<10	1	0.01	<10	11.90	210	<1	<0.01	2	170	<2	0.01	<2	<1	49
K976937		<10	<1	0.08	10	2.57	692	<1	0.02	17	30	8	0.04	<2	14	183
K976938		<10	1	0.09	10	0.28	343	<1	<0.01	12	50	9	0.02	<2	11	104
K976939		<10	<1	0.10	10	0.12	519	<1	<0.01	17	90	10	0.01	8	15	46
K976940		<10	<1	0.14	10	0.07	435	<1	<0.01	9	90	7	<0.01	<2	4	64
K976941		<10	<1	0.07	<10	0.07	501	<1	<0.01	15	80	11	<0.01	<2	14	54
K976942		<10	<1	0.20	10	0.28	508	<1	<0.01	15	210	10	<0.01	<2	16	28
K976943		10	<1	0.53	10	0.77	468	<1	<0.01	29	430	11	0.01	<2	21	32
K976944		<10	1	0.10	<10	0.98	331	12	0.01	23	100	249	>10.0	<2	2	9
K976945		<10	1	0.33	30	0.41	262	<1	0.01	16	350	5	0.01	2	9	18
K976946		<10	1	0.14	20	0.12	291	<1	<0.01	7	280	6	<0.01	<2	6	31
K976947		10	<1	0.56	20	0.57	310	<1	<0.01	11	450	6	<0.01	<2	9	36

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11170801

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
K976912		<20	<0.01	<10	70	21	<10	105	
K976913		30	0.01	<10	30	18	<10	61	
K976914		30	0.01	<10	20	12	<10	49	
K976915		20	<0.01	<10	30	17	<10	49	
K976916		30	<0.01	<10	<10	2	<10	5	
K976917		<20	0.08	<10	<10	84	10	2720	
K976918		20	<0.01	<10	10	3	<10	35	
K976919		30	<0.01	<10	10	1	<10	5	
K976920		30	<0.01	<10	10	1	<10	3	
K976921		30	<0.01	<10	10	1	<10	5	
K976922		30	<0.01	<10	<10	1	<10	2	
K976923		30	<0.01	<10	10	<1	<10	<2	
K976924		30	<0.01	<10	10	2	<10	11	
K976925		20	<0.01	<10	20	2	<10	12	
K976926		<20	<0.01	<10	<10	1	<10	18	
K976927		<20	<0.01	<10	90	4	<10	12	
K976928		20	<0.01	<10	10	3	<10	20	
K976929		<20	<0.01	<10	30	6	<10	40	
K976930		20	<0.01	<10	30	3	<10	12	
K976931		20	<0.01	<10	20	3	<10	16	
K976932		<20	<0.01	<10	<10	2	<10	11	
K976933		20	<0.01	<10	<10	2	<10	11	
K976934		20	<0.01	<10	10	2	<10	23	
K976935		<20	<0.01	<10	10	9	<10	22	
K976936		<20	<0.01	<10	<10	2	<10	15	
K976937		<20	<0.01	<10	10	63	<10	51	
K976938		<20	<0.01	<10	20	43	<10	37	
K976939		<20	<0.01	<10	10	49	<10	50	
K976940		<20	<0.01	<10	20	21	<10	32	
K976941		<20	<0.01	<10	30	44	<10	43	
K976942		<20	0.01	<10	20	60	<10	42	
K976943		<20	0.01	<10	10	93	<10	68	
K976944		<20	0.02	<10	<10	16	<10	>10000	NSS
K976945		20	0.02	<10	<10	42	<10	31	
K976946		20	0.01	<10	<10	25	<10	20	
K976947		20	0.05	<10	<10	36	<10	28	

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11170801

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 12- SEP- 2011
Account: F

CERTIFICATE WH11170802

Project: Arcus - Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH11170802

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K975326		5.56	<0.005	<0.2	1.46	4	<10	170	<0.5	4	0.99	<0.5	8	37	7	1.89
K975327		3.52	<0.005	<0.2	2.38	2	<10	330	0.6	4	2.14	<0.5	16	53	14	3.44
K975328		4.46	<0.005	<0.2	1.15	3	<10	170	<0.5	3	0.41	<0.5	7	18	3	1.51
K975329		5.41	<0.005	<0.2	1.43	4	<10	190	<0.5	4	0.46	<0.5	8	15	4	1.94
K975330		7.67	<0.005	<0.2	2.40	4	<10	120	<0.5	5	1.48	<0.5	16	65	2	3.51
K975331		6.76	<0.005	<0.2	2.58	5	<10	230	<0.5	3	1.40	<0.5	16	95	12	3.18
K975332		3.18	<0.005	<0.2	2.28	14	<10	300	<0.5	3	1.01	<0.5	11	63	14	2.79
K975333		8.31	<0.005	<0.2	2.20	11	<10	150	<0.5	3	2.34	<0.5	21	78	39	3.09
K975334		0.56	<0.005	<0.2	0.04	2	<10	30	<0.5	<2	18.3	<0.5	1	1	1	0.48
K975335		2.35	<0.005	<0.2	0.73	61	<10	60	1.8	3	0.08	0.5	3	8	6	0.74
K975336		1.36	<0.005	<0.2	0.80	62	<10	60	1.8	5	0.04	0.6	3	8	3	0.69
K975337		0.23	0.360	54.5	1.15	97	<10	70	<0.5	5	0.51	21.6	16	32	4280	4.63
K975338		1.61	<0.005	0.2	0.87	73	<10	60	2.8	5	0.07	0.7	4	17	13	1.18
K975339		0.43	0.015	<0.2	0.69	165	<10	110	4.7	5	0.04	1.1	8	13	11	1.85
K975340		0.61	0.031	<0.2	0.66	125	<10	70	3.2	4	0.03	0.9	4	7	7	1.09
K975341		0.68	<0.005	<0.2	0.05	5	<10	10	<0.5	3	18.3	<0.5	1	1	<1	0.43
K975342		0.50	0.007	<0.2	0.55	145	<10	290	2.6	4	0.10	1.0	3	5	4	1.10
K975343		2.81	0.036	0.4	0.65	218	<10	70	3.6	4	0.04	1.7	4	5	16	1.54
K975344		2.38	0.013	<0.2	0.65	248	<10	80	3.7	5	0.04	2.0	6	6	6	1.68
K975345		4.23	0.010	1.1	0.68	66	<10	60	1.7	5	0.02	0.6	2	5	5	0.76
K975346		3.72	0.035	0.2	0.55	53	<10	60	1.4	3	0.02	0.5	1	5	2	0.75
K975347		3.90	0.095	<0.2	0.54	58	<10	50	1.5	5	0.02	0.5	2	4	1	0.83
K975348		3.48	0.020	<0.2	0.58	46	<10	60	1.4	4	0.02	0.5	2	5	3	0.68
K975349		3.65	0.016	<0.2	0.60	38	<10	40	1.2	4	0.02	<0.5	1	4	2	0.53
K975350		3.63	0.027	<0.2	0.64	70	<10	60	1.9	4	0.02	0.5	3	4	6	1.07
K976901		2.53	0.065	<0.2	0.71	52	<10	40	1.6	4	0.02	<0.5	2	4	4	0.79
K976902		0.96	0.016	<0.2	0.50	55	<10	50	1.7	4	0.03	0.6	3	5	3	1.19
K976903		0.19	0.368	53.0	1.15	101	<10	60	<0.5	4	0.51	22.1	16	32	4300	4.65
K976904		2.61	0.062	0.3	0.47	123	<10	110	4.6	3	0.05	1.2	9	13	14	2.62
K976905		2.27	0.040	<0.2	0.65	109	<10	70	3.4	<2	0.03	0.7	8	14	10	1.62
K976906		2.50	0.011	<0.2	0.49	29	<10	30	1.4	<2	0.01	<0.5	3	4	3	0.58
K976907		3.17	0.012	<0.2	0.81	160	<10	90	5.3	<2	0.03	1.2	16	29	20	2.80
K976908		2.65	0.007	<0.2	0.57	22	<10	40	1.4	2	0.02	<0.5	4	3	3	0.59
K976909		4.20	0.017	<0.2	0.61	36	<10	30	1.7	<2	0.02	<0.5	4	4	4	0.66
K976910		1.20	0.040	<0.2	0.45	167	<10	60	4.1	<2	0.04	1.0	11	9	14	1.76
K976911		0.55	0.144	<0.2	0.59	453	<10	240	9.0	<2	0.07	2.1	23	12	16	3.48

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11170802

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K975326		10	<1	0.61	10	1.15	265	<1	0.09	20	480	3	0.01	<2	5	33
K975327		10	1	1.26	10	2.25	573	<1	0.14	20	640	3	<0.01	<2	9	42
K975328		<10	<1	0.68	20	0.87	192	<1	0.10	9	490	<2	<0.01	<2	3	25
K975329		10	<1	0.83	20	1.04	242	<1	0.10	10	500	3	<0.01	<2	3	31
K975330		10	<1	0.58	<10	2.27	545	<1	0.24	30	630	2	<0.01	<2	10	34
K975331		10	<1	1.01	<10	2.74	522	<1	0.17	43	630	<2	<0.01	<2	8	28
K975332		10	<1	1.13	10	2.15	445	<1	0.11	32	610	3	0.01	<2	6	29
K975333		<10	1	0.62	<10	2.18	594	3	0.13	38	690	3	0.23	<2	7	48
K975334		<10	<1	0.01	<10	11.85	211	<1	0.01	2	150	2	0.02	<2	1	52
K975335		<10	<1	0.05	10	0.04	257	<1	<0.01	5	70	11	<0.01	<2	3	10
K975336		<10	<1	0.04	10	0.01	124	<1	<0.01	6	60	8	<0.01	<2	2	13
K975337		10	<1	0.55	10	0.68	470	165	0.04	24	880	2150	2.47	63	7	37
K975338		<10	<1	0.07	10	0.04	133	<1	<0.01	9	100	22	<0.01	<2	4	24
K975339		<10	<1	0.12	10	0.03	364	<1	<0.01	14	180	44	<0.01	<2	3	69
K975340		<10	<1	0.11	10	0.01	128	<1	<0.01	8	120	86	<0.01	<2	2	70
K975341		<10	1	0.01	<10	11.70	203	<1	0.01	2	160	3	0.01	<2	<1	50
K975342		<10	<1	0.16	10	0.05	131	1	<0.01	7	80	26	0.01	2	1	33
K975343		<10	<1	0.20	30	0.02	124	<1	<0.01	8	120	40	<0.01	2	1	20
K975344		<10	1	0.16	20	0.02	130	<1	<0.01	10	130	45	<0.01	3	1	19
K975345		<10	<1	0.17	20	<0.01	101	<1	<0.01	3	70	26	<0.01	<2	1	16
K975346		<10	<1	0.15	20	<0.01	109	<1	<0.01	2	60	21	<0.01	<2	<1	11
K975347		<10	<1	0.12	20	<0.01	90	<1	<0.01	2	70	19	<0.01	<2	<1	13
K975348		<10	<1	0.15	20	<0.01	108	<1	<0.01	4	60	17	<0.01	<2	1	12
K975349		<10	<1	0.18	20	<0.01	77	<1	<0.01	3	60	14	<0.01	<2	<1	11
K975350		<10	<1	0.16	30	<0.01	115	<1	<0.01	4	80	26	<0.01	<2	1	13
K976901		<10	1	0.13	30	<0.01	117	<1	<0.01	3	70	29	<0.01	<2	1	11
K976902		<10	<1	0.16	20	0.01	115	<1	<0.01	6	80	11	<0.01	<2	1	18
K976903		10	1	0.55	10	0.69	474	169	0.04	25	880	2160	2.47	63	7	37
K976904		<10	<1	0.24	20	0.03	420	1	<0.01	25	260	27	0.01	3	5	174
K976905		<10	1	0.18	20	0.03	316	<1	<0.01	14	160	38	0.01	3	3	59
K976906		<10	<1	0.18	20	0.01	100	<1	<0.01	2	60	20	<0.01	<2	<1	12
K976907		<10	<1	0.25	10	0.06	315	<1	<0.01	16	170	42	0.01	6	7	14
K976908		<10	<1	0.16	20	0.02	259	<1	<0.01	2	60	16	<0.01	<2	1	9
K976909		<10	1	0.15	20	0.02	274	<1	<0.01	3	80	31	<0.01	<2	1	13
K976910		<10	<1	0.19	10	0.04	428	<1	<0.01	12	190	33	<0.01	6	3	77
K976911		<10	<1	0.27	10	0.06	1375	1	<0.01	41	410	45	<0.01	6	8	144

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

Finalized Date: 12- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11170802

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
K975326		<20	0.12	<10	<10	44	<10	24
K975327		<20	0.26	<10	<10	117	<10	37
K975328		<20	0.11	<10	<10	29	<10	15
K975329		<20	0.14	<10	<10	33	<10	21
K975330		<20	0.19	<10	<10	102	<10	36
K975331		<20	0.24	<10	<10	98	<10	36
K975332		<20	0.25	<10	<10	75	<10	30
K975333		<20	0.19	<10	<10	80	<10	42
K975334		<20	<0.01	<10	<10	3	<10	18
K975335		20	<0.01	<10	20	8	<10	37
K975336		20	<0.01	<10	20	7	<10	30
K975337		<20	0.09	<10	<10	86	10	2730
K975338		20	<0.01	<10	30	14	<10	73
K975339		<20	<0.01	<10	50	14	<10	102
K975340		20	<0.01	<10	30	8	<10	50
K975341		<20	<0.01	<10	<10	2	<10	19
K975342		20	<0.01	<10	30	6	<10	47
K975343		30	<0.01	<10	40	9	<10	51
K975344		30	<0.01	<10	40	12	<10	56
K975345		30	<0.01	<10	20	4	<10	24
K975346		30	<0.01	<10	10	3	<10	20
K975347		30	<0.01	<10	20	3	<10	27
K975348		30	<0.01	<10	10	4	<10	23
K975349		40	<0.01	<10	10	2	<10	15
K975350		40	<0.01	<10	20	4	<10	28
K976901		40	<0.01	<10	10	4	<10	20
K976902		30	<0.01	<10	10	5	<10	28
K976903		<20	0.09	<10	<10	86	10	2770
K976904		<20	<0.01	<10	40	11	<10	139
K976905		30	<0.01	<10	30	13	<10	54
K976906		30	<0.01	<10	10	3	<10	16
K976907		<20	0.01	<10	60	30	<10	90
K976908		40	<0.01	<10	10	5	<10	23
K976909		40	<0.01	<10	10	5	<10	31
K976910		<20	<0.01	<10	40	17	<10	76
K976911		<20	0.01	<10	80	54	<10	201

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This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- AUG- 2011.

The following have access to data associated with this certificate:

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SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH11170803

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K976948		4.97	<0.005	<0.2	0.77	11	<10	60	0.9	<2	0.24	<0.5	5	8	2	1.06
K976949		3.25	<0.005	<0.2	0.63	10	<10	20	0.8	<2	0.10	<0.5	4	9	3	1.10
K976950		3.04	<0.005	<0.2	0.73	13	<10	10	0.9	<2	0.61	<0.5	4	8	4	1.13
K976951		2.47	<0.005	<0.2	0.48	8	<10	10	0.5	<2	0.70	<0.5	4	9	2	0.90
K976952		1.75	<0.005	0.3	2.12	8	<10	330	1.4	4	3.85	<0.5	14	64	5	2.85
K976953		0.68	<0.005	<0.2	0.02	4	<10	10	<0.5	<2	19.2	<0.5	1	1	1	0.43
K976954		2.36	0.084	<0.2	0.49	32	<10	210	0.9	<2	0.42	<0.5	2	3	1	0.64
K976955		2.73	0.064	<0.2	0.46	27	<10	70	0.9	<2	0.72	<0.5	3	4	1	0.54
K976956		4.15	0.068	<0.2	0.44	24	<10	90	0.8	<2	0.83	<0.5	2	4	<1	0.48
K976957		4.57	0.040	<0.2	0.31	16	<10	40	0.5	<2	0.31	<0.5	2	3	<1	0.41
K976958		3.92	0.077	<0.2	0.38	42	<10	110	0.6	<2	0.16	<0.5	2	3	<1	0.56
K976959		3.37	0.118	<0.2	0.31	51	<10	20	0.8	<2	0.27	<0.5	3	3	<1	0.56
K976960		1.62	0.154	<0.2	0.57	81	<10	50	1.1	<2	0.04	<0.5	3	2	<1	0.60
K976961		3.56	0.863	0.2	0.36	193	<10	40	2.3	<2	0.05	<0.5	3	4	5	1.08
K976962		3.91	1.715	0.2	0.46	246	10	70	4.2	<2	0.92	<0.5	5	3	4	1.04
K976963		3.93	0.413	<0.2	0.39	66	<10	70	1.1	<2	0.10	<0.5	3	2	2	0.54
K976964		0.79	0.027	<0.2	1.51	238	<10	200	6.2	<2	0.30	<0.5	23	125	43	4.05
K976965		3.42	0.160	<0.2	0.40	50	<10	30	1.0	<2	0.04	<0.5	3	3	1	0.61
K976966		3.71	0.603	<0.2	0.45	78	<10	40	0.9	<2	0.04	<0.5	3	3	1	0.61
K976967		1.66	0.654	<0.2	0.36	115	10	60	1.4	<2	0.07	<0.5	2	2	2	0.80
K976968		4.23	0.230	<0.2	0.36	42	10	40	1.0	<2	0.24	<0.5	2	2	1	0.46
K976969		4.84	0.128	<0.2	0.41	44	<10	40	0.9	<2	0.40	<0.5	2	3	<1	0.55
K976970		3.88	0.203	<0.2	0.32	72	10	30	0.9	<2	0.33	<0.5	2	3	1	0.61
K976971		0.39	0.205	<0.2	0.49	54	10	10	1.2	<2	0.10	<0.5	4	1	12	0.97
K976972		0.26	0.350	52.6	1.14	101	<10	50	<0.5	<2	0.50	21.2	18	32	4510	4.61
K976973		3.91	0.639	<0.2	0.33	81	10	30	1.1	<2	0.07	<0.5	2	2	3	0.87
K976974		3.29	0.180	0.2	0.38	50	10	90	0.9	<2	0.14	<0.5	2	3	1	0.59
K976975		2.02	0.467	<0.2	0.33	69	10	110	0.8	<2	0.55	<0.5	2	3	<1	0.58
K976976		0.12	2.10	14.1	0.90	25	<10	20	<0.5	2	0.29	53.5	12	40	4940	8.91
K976977		4.66	0.450	0.2	0.31	49	10	250	1.0	<2	1.48	<0.5	2	2	3	0.89
K976978		2.73	0.326	<0.2	0.29	104	10	260	0.9	<2	0.22	<0.5	2	2	2	0.77
K976979		3.93	0.135	0.2	0.67	96	<10	90	2.2	<2	2.62	<0.5	5	19	5	1.85
K976980		0.61	<0.005	<0.2	0.03	2	<10	<10	<0.5	<2	18.8	<0.5	1	1	<1	0.44
K976981		5.27	0.066	<0.2	0.47	23	<10	20	0.9	<2	0.78	<0.5	2	4	<1	0.40
K976982		4.88	0.126	<0.2	0.32	24	<10	20	0.7	<2	0.87	<0.5	1	4	<1	0.39
K976983		5.18	0.037	<0.2	0.34	18	<10	10	0.7	<2	0.76	<0.5	1	3	<1	0.44

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North Vancouver BC V7H 0A7
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 13- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11170803

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K976948		<10	1	0.30	40	0.23	201	1	0.05	2	250	4	<0.01	<2	2	14
K976949		<10	<1	0.24	20	0.26	115	1	0.07	1	200	3	<0.01	<2	7	11
K976950		<10	<1	0.25	10	0.23	139	<1	0.08	1	200	2	<0.01	<2	9	19
K976951		<10	<1	0.16	<10	0.17	134	1	0.07	3	180	<2	<0.01	<2	7	14
K976952		<10	<1	0.87	<10	1.55	719	<1	0.12	34	560	2	0.01	<2	13	52
K976953		<10	<1	0.01	<10	12.15	217	<1	0.01	<1	160	2	0.01	<2	<1	47
K976954		<10	<1	0.18	30	0.04	122	<1	0.01	<1	70	18	0.01	<2	<1	23
K976955		<10	1	0.15	30	0.04	116	<1	<0.01	<1	70	20	0.01	<2	<1	24
K976956		<10	<1	0.16	20	0.02	98	<1	<0.01	<1	40	17	0.01	<2	<1	24
K976957		<10	<1	0.11	20	0.02	89	<1	0.04	<1	60	14	<0.01	<2	<1	19
K976958		<10	<1	0.14	20	0.02	147	<1	0.02	<1	50	22	0.01	<2	<1	15
K976959		<10	<1	0.11	30	0.02	151	<1	0.03	<1	40	9	0.01	<2	<1	14
K976960		<10	1	0.19	20	0.02	165	1	0.01	<1	50	17	0.01	2	<1	12
K976961		<10	<1	0.17	30	0.01	39	2	<0.01	7	110	15	0.02	3	1	11
K976962		<10	1	0.23	20	0.04	229	<1	<0.01	6	70	14	0.55	2	1	37
K976963		<10	<1	0.18	30	0.02	125	<1	<0.01	1	90	27	0.01	<2	<1	15
K976964		<10	1	0.37	10	0.34	1375	1	<0.01	46	770	18	0.01	12	23	88
K976965		<10	<1	0.16	30	0.03	122	<1	<0.01	1	80	6	0.01	<2	<1	26
K976966		<10	<1	0.19	30	0.02	119	<1	<0.01	<1	70	8	0.01	<2	<1	17
K976967		<10	<1	0.21	20	0.03	108	<1	<0.01	<1	70	10	0.01	3	<1	20
K976968		<10	<1	0.23	20	0.02	132	<1	<0.01	<1	60	6	0.01	<2	<1	45
K976969		<10	<1	0.18	30	0.02	99	<1	<0.01	<1	80	9	0.01	<2	<1	24
K976970		<10	<1	0.22	30	0.01	97	<1	<0.01	<1	70	10	0.01	<2	<1	25
K976971		<10	<1	0.32	30	0.02	23	<1	<0.01	<1	80	4	0.61	<2	<1	7
K976972		<10	<1	0.56	10	0.68	471	163	0.04	23	910	2160	2.50	66	7	35
K976973		<10	<1	0.21	30	0.01	106	1	<0.01	<1	80	7	0.10	<2	<1	22
K976974		<10	<1	0.26	30	0.01	76	1	<0.01	<1	70	10	0.09	<2	<1	20
K976975		<10	<1	0.24	20	0.01	104	2	<0.01	<1	70	7	0.10	<2	<1	38
K976976		<10	2	0.10	<10	0.89	307	13	0.01	20	110	242	>10.0	<2	2	7
K976977		<10	<1	0.19	10	0.03	165	1	<0.01	<1	60	13	0.85	<2	<1	69
K976978		<10	<1	0.19	30	0.02	108	3	<0.01	<1	70	13	0.02	2	<1	25
K976979		<10	<1	0.18	30	0.08	640	3	<0.01	13	340	10	<0.01	5	3	57
K976980		<10	<1	0.01	<10	11.70	218	1	<0.01	<1	170	6	<0.01	<2	<1	49
K976981		<10	<1	0.16	30	0.03	111	1	0.01	<1	80	8	<0.01	<2	<1	33
K976982		<10	<1	0.17	30	0.06	97	1	0.02	<1	80	9	<0.01	<2	<1	33
K976983		<10	<1	0.14	20	0.03	104	1	0.04	<1	70	8	<0.01	<2	<1	31

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VANCOUVER BC V6B 1L8

Finalized Date: 13- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11170803

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
K976948		30	0.02	<10	<10	13	<10	13	
K976949		<20	0.02	<10	<10	8	<10	9	
K976950		<20	0.01	<10	<10	7	<10	7	
K976951		<20	0.01	<10	<10	6	<10	5	
K976952		<20	0.13	<10	<10	79	<10	27	
K976953		<20	<0.01	<10	10	1	<10	16	
K976954		30	<0.01	<10	<10	1	<10	4	
K976955		40	<0.01	<10	<10	<1	<10	2	
K976956		40	<0.01	<10	<10	<1	<10	<2	
K976957		40	<0.01	<10	<10	<1	<10	2	
K976958		30	<0.01	<10	<10	<1	<10	<2	
K976959		40	<0.01	<10	<10	1	<10	5	
K976960		30	<0.01	<10	10	1	<10	6	
K976961		30	<0.01	<10	30	1	<10	11	
K976962		30	<0.01	<10	10	1	<10	7	
K976963		30	<0.01	<10	<10	1	<10	4	
K976964		<20	0.02	<10	10	77	<10	99	
K976965		40	<0.01	<10	<10	1	<10	4	
K976966		30	<0.01	<10	<10	1	<10	3	
K976967		40	<0.01	<10	<10	<1	<10	<2	
K976968		40	<0.01	<10	<10	<1	<10	<2	
K976969		40	<0.01	<10	<10	<1	<10	<2	
K976970		40	<0.01	<10	<10	<1	<10	<2	
K976971		40	<0.01	<10	30	<1	<10	<2	
K976972		<20	0.09	<10	<10	87	<10	2670	
K976973		40	<0.01	<10	<10	<1	<10	<2	
K976974		30	<0.01	<10	10	<1	<10	<2	
K976975		40	<0.01	<10	<10	<1	<10	<2	
K976976		<20	0.02	<10	<10	15	<10	>10000	1.335
K976977		30	<0.01	<10	<10	<1	<10	<2	
K976978		30	<0.01	<10	<10	<1	<10	<2	
K976979		40	<0.01	<10	20	8	<10	18	
K976980		<20	<0.01	<10	<10	1	<10	14	
K976981		40	<0.01	<10	<10	<1	<10	3	
K976982		40	<0.01	<10	<10	<1	<10	2	
K976983		40	<0.01	<10	<10	1	<10	<2	

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VANCOUVER BC V6B 1L8

Finalized Date: 26- SEP- 2011
Account: F

CERTIFICATE WH11173973

Project: Arcus - Dan Man

P.O. No.: Batch 13

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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North Vancouver BC V7H 0A7
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Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11173973

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K976984		6.32	<0.005	0.3	1.72	7	<10	150	0.8	<2	2.33	<0.5	13	69	23	2.55
K976985		3.68	<0.005	<0.2	0.30	2	<10	20	<0.5	<2	0.55	<0.5	1	8	3	0.37
K976986		7.92	<0.005	1.1	2.28	5	<10	230	1.0	<2	2.52	<0.5	15	58	13	3.48
K976987		10.11	<0.005	<0.2	1.42	2	<10	110	0.7	<2	1.72	<0.5	8	44	6	2.00
K976988		8.28	<0.005	<0.2	2.41	3	<10	90	1.4	<2	2.26	<0.5	19	81	22	3.19
K976989		3.33	<0.005	<0.2	0.32	3	<10	20	<0.5	11	0.43	<0.5	3	8	5	0.70
K976990		4.32	<0.005	<0.2	0.80	<2	<10	50	<0.5	3	0.70	<0.5	5	15	2	1.28
K976991		10.83	<0.005	0.2	2.63	4	<10	230	1.0	<2	2.50	<0.5	17	103	20	3.55
K976992		2.06	<0.005	<0.2	3.27	8	<10	40	0.6	<2	3.54	<0.5	26	276	44	3.91
K976993		9.68	<0.005	<0.2	2.17	5	<10	230	0.8	<2	1.79	<0.5	12	83	20	2.96
K976994		5.05	<0.005	<0.2	1.26	5	<10	50	0.7	<2	1.66	<0.5	10	66	10	2.16
K976995		0.54	<0.005	<0.2	1.31	8	<10	40	1.4	<2	10.4	<0.5	15	55	33	2.91
K976996		4.68	<0.005	<0.2	1.71	9	<10	50	1.2	<2	3.71	<0.5	16	152	13	3.20
K976997		1.69	<0.005	<0.2	0.94	32	<10	70	2.0	<2	4.77	<0.5	22	78	22	3.61
K976998		4.94	<0.005	<0.2	2.12	12	<10	230	1.4	<2	5.28	<0.5	24	160	28	4.65
K976999		6.12	<0.005	<0.2	0.53	8	<10	30	0.7	<2	1.68	<0.5	5	28	6	1.37
K977000		4.17	<0.005	<0.2	1.09	30	<10	190	1.6	<2	3.77	<0.5	16	106	17	3.05
G0561726		0.23	0.347	54.1	1.13	105	<10	70	<0.5	2	0.52	22.2	16	32	4460	4.79
G0561727		0.51	<0.005	<0.2	0.70	28	<10	40	2.6	<2	10.6	<0.5	20	34	42	3.91
G0561728		6.31	<0.005	<0.2	1.02	39	<10	70	1.8	<2	4.13	<0.5	16	76	12	3.17
G0561729		4.58	<0.005	<0.2	1.52	68	<10	210	2.1	<2	3.60	<0.5	11	48	4	2.70
G0561730		4.88	<0.005	<0.2	1.13	17	<10	130	1.5	<2	4.50	<0.5	10	63	18	2.00
G0561731		1.62	<0.005	<0.2	0.74	78	<10	110	1.6	<2	0.14	<0.5	9	16	3	1.50
G0561732		3.64	<0.005	<0.2	0.70	37	<10	50	0.8	<2	0.12	<0.5	3	9	<1	0.92
G0561733		4.41	<0.005	<0.2	1.97	27	<10	170	2.2	<2	4.15	<0.5	18	131	17	3.76
G0561734		3.05	<0.005	<0.2	1.53	24	<10	160	1.8	<2	4.43	<0.5	17	86	27	2.92
G0561735		1.93	<0.005	<0.2	0.65	60	<10	60	0.9	<2	0.11	<0.5	5	5	3	1.20
G0561736		4.15	<0.005	<0.2	0.87	41	<10	80	1.2	<2	2.68	<0.5	6	19	5	1.62
G0561737		0.53	0.009	<0.2	0.06	3	<10	20	<0.5	<2	19.9	<0.5	1	1	<1	0.45
G0561738		4.12	<0.005	<0.2	0.81	13	<10	60	0.9	<2	0.30	<0.5	4	15	3	1.38
G0561739		4.03	<0.005	<0.2	1.69	20	<10	160	1.9	<2	2.62	<0.5	11	25	5	3.21
G0561740		3.26	<0.005	<0.2	0.51	23	<10	80	0.9	<2	1.41	<0.5	5	6	1	1.59
G0561741		0.08	2.23	14.5	0.95	28	<10	30	<0.5	5	0.31	56.8	10	42	5200	9.35
G0561742		6.73	<0.005	<0.2	0.56	73	<10	90	0.8	<2	0.70	<0.5	4	8	3	1.22
G0561743		0.60	<0.005	<0.2	0.05	3	<10	30	<0.5	<2	19.5	<0.5	1	<1	<1	0.41
G0561744		2.04	0.310	<0.2	0.37	1025	<10	200	1.5	<2	1.79	<0.5	7	4	12	2.15

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11173973

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K976984		10	<1	0.98	20	1.29	539	<1	0.04	26	660	13	0.02	<2	5	48
K976985		<10	<1	0.19	20	0.03	97	<1	0.06	1	60	3	<0.01	<2	<1	10
K976986		10	<1	1.64	20	1.81	753	1	0.03	24	810	9	0.06	<2	7	43
K976987		10	<1	1.05	30	1.11	468	3	0.05	16	400	3	0.03	<2	3	35
K976988		10	<1	1.59	20	2.35	679	2	0.03	43	710	2	<0.01	<2	5	53
K976989		<10	<1	0.21	20	0.10	99	7	0.06	1	90	11	<0.01	<2	1	12
K976990		<10	<1	0.42	40	0.42	261	2	0.07	4	310	4	0.01	<2	2	28
K976991		10	<1	1.48	20	2.52	833	3	0.04	41	870	8	0.04	<2	5	58
K976992		10	1	0.45	10	3.98	723	2	0.10	152	570	10	0.02	<2	9	71
K976993		10	<1	1.22	20	1.96	605	3	0.06	29	590	14	0.02	<2	4	50
K976994		10	<1	0.46	30	1.10	446	2	0.05	26	470	12	0.01	<2	3	30
K976995		<10	<1	0.46	10	0.93	710	12	0.02	77	450	11	0.01	<2	6	49
K976996		10	<1	0.53	20	1.99	745	1	0.04	61	680	4	0.03	<2	9	61
K976997		<10	<1	0.41	20	1.47	890	2	0.03	63	770	19	0.04	<2	7	73
K976998		10	<1	0.73	20	2.87	1030	<1	0.04	72	1140	20	0.07	<2	12	119
K976999		<10	<1	0.22	30	0.53	283	<1	0.05	9	280	15	0.01	<2	2	26
K977000		<10	<1	0.53	30	1.50	678	<1	0.03	44	600	18	0.03	<2	9	60
G0561726		10	<1	0.55	10	0.69	490	164	0.05	21	920	2180	2.49	64	7	35
G0561727		<10	<1	0.30	10	4.74	1020	<1	0.07	44	160	17	0.01	2	7	237
G0561728		<10	<1	0.37	20	1.01	672	<1	0.03	37	570	12	0.02	<2	7	50
G0561729		10	<1	0.64	20	0.53	642	<1	0.02	22	620	18	0.01	14	7	25
G0561730		<10	<1	0.48	20	0.41	454	<1	0.01	23	470	13	0.01	5	5	23
G0561731		<10	<1	0.27	20	0.12	372	<1	0.01	14	280	19	0.01	19	3	9
G0561732		<10	<1	0.17	30	0.08	200	<1	0.01	2	220	8	<0.01	5	2	9
G0561733		10	<1	1.06	20	1.35	718	<1	0.02	35	610	8	0.01	8	17	22
G0561734		<10	<1	0.72	20	0.89	650	<1	0.02	36	480	6	0.01	14	12	23
G0561735		<10	<1	0.09	30	0.08	331	<1	0.01	8	200	10	0.01	26	1	10
G0561736		<10	<1	0.23	30	0.21	352	<1	0.01	9	380	9	0.01	12	3	19
G0561737		<10	<1	0.02	<10	12.25	193	<1	0.02	<1	170	2	0.02	<2	<1	50
G0561738		<10	<1	0.38	40	0.35	218	<1	0.04	3	380	6	0.01	4	2	10
G0561739		10	<1	1.12	30	1.18	610	<1	0.03	6	630	7	0.07	4	9	39
G0561740		<10	<1	0.20	30	0.23	329	<1	0.04	<1	300	10	0.01	<2	3	22
G0561741		<10	2	0.10	<10	0.98	338	13	0.02	20	110	246	>10.0	2	2	7
G0561742		<10	<1	0.19	30	0.08	372	<1	<0.01	4	220	7	<0.01	12	2	15
G0561743		<10	<1	0.03	<10	11.20	204	<1	0.02	<1	170	<2	0.02	<2	<1	56
G0561744		<10	<1	0.18	30	0.06	381	<1	0.01	6	170	22	0.01	12	2	55

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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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VANCOUVER BC V6B 1L8

Finalized Date: 26- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11173973

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
K976984		<20	0.14	<10	<10	45	<10	58	
K976985		40	<0.01	<10	<10	2	<10	10	
K976986		<20	0.17	<10	<10	63	<10	67	
K976987		20	0.14	<10	<10	33	<10	34	
K976988		<20	0.21	<10	<10	68	<10	50	
K976989		30	0.01	<10	<10	4	<10	7	
K976990		20	0.05	<10	<10	11	<10	20	
K976991		<20	0.22	<10	<10	65	<10	59	
K976992		<20	0.20	<10	<10	103	<10	42	
K976993		<20	0.19	<10	<10	53	<10	56	
K976994		30	0.04	<10	<10	29	<10	38	
K976995		<20	0.01	<10	<10	27	<10	26	
K976996		20	0.03	<10	<10	64	<10	56	
K976997		20	0.02	<10	10	52	<10	75	
K976998		<20	0.06	<10	<10	94	<10	81	
K976999		20	0.01	<10	<10	14	<10	21	
K977000		<20	0.03	<10	<10	59	<10	53	
G0561726		<20	0.09	<10	<10	88	<10	2630	
G0561727		<20	0.01	<10	10	36	<10	73	
G0561728		<20	0.01	<10	<10	48	<10	54	
G0561729		20	0.04	<10	<10	42	<10	47	
G0561730		30	0.03	<10	<10	33	<10	36	
G0561731		20	<0.01	<10	<10	16	<10	34	
G0561732		40	<0.01	<10	<10	9	<10	12	
G0561733		20	0.09	<10	<10	94	<10	54	
G0561734		20	0.06	<10	<10	66	<10	39	
G0561735		40	<0.01	<10	<10	10	<10	22	
G0561736		30	0.01	<10	<10	18	<10	25	
G0561737		<20	<0.01	<10	<10	<1	<10	18	
G0561738		40	0.03	<10	<10	13	<10	22	
G0561739		30	0.12	<10	<10	64	<10	49	
G0561740		30	0.01	<10	<10	20	<10	24	
G0561741		<20	0.02	<10	<10	16	<10	>10000	1.330
G0561742		30	<0.01	<10	<10	11	<10	18	
G0561743		<20	<0.01	<10	<10	<1	<10	21	
G0561744		20	<0.01	<10	20	6	<10	29	

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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 22- SEP- 2011
Account: F

CERTIFICATE WH11177042

Project: Arcus - Dan Man

P.O. No.: Batch 16

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 3- SEP- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Finalized Date: 22- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11177042

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
I357817		9.23	<0.005	<0.2	1.69	<2	<10	160	<0.5	<2	1.39	<0.5	12	42	18	3.01
I357818		5.83	<0.005	<0.2	1.55	<2	<10	120	0.5	<2	1.90	<0.5	10	23	18	2.55
I357819		0.14	2.01	15.8	1.05	27	<10	30	<0.5	<2	0.30	59.5	10	45	5360	9.43
I357820		1.51	<0.005	<0.2	2.53	2	<10	10	<0.5	<2	1.58	<0.5	9	10	9	4.73
I357821		3.62	<0.005	<0.2	1.75	13	<10	200	0.5	<2	1.67	<0.5	13	56	26	2.63
I357822		0.79	<0.005	<0.2	0.04	<2	<10	10	<0.5	<2	21.4	<0.5	1	<1	1	0.49
I357823		5.65	<0.005	<0.2	0.58	3	<10	50	<0.5	<2	1.36	<0.5	2	6	4	1.12
I357824		6.01	<0.005	<0.2	1.49	<2	<10	140	0.6	<2	2.25	<0.5	11	46	13	3.65
I357825		3.72	<0.005	<0.2	1.10	3	<10	160	1.5	2	2.81	<0.5	10	17	16	2.62
I357826		6.67	<0.005	<0.2	1.07	13	<10	120	0.5	<2	2.26	<0.5	7	24	10	2.21
I357827		4.12	<0.005	<0.2	1.24	42	<10	360	0.9	<2	4.33	<0.5	13	28	6	2.70
I357828		9.36	<0.005	<0.2	0.98	2	<10	80	<0.5	<2	1.21	<0.5	5	15	6	2.71
I357829		7.47	<0.005	<0.2	1.61	3	<10	140	<0.5	<2	1.98	<0.5	11	34	17	2.77
I357830		6.89	<0.005	<0.2	1.57	<2	<10	230	0.6	2	1.40	<0.5	10	35	9	2.31
I357831		6.63	<0.005	<0.2	1.77	4	<10	200	0.7	<2	1.52	<0.5	9	24	7	2.66
I357832		7.42	<0.005	<0.2	1.79	2	<10	140	0.8	2	1.54	<0.5	11	34	10	2.58
I357833		9.33	<0.005	<0.2	1.41	2	<10	180	0.6	<2	1.72	<0.5	8	21	5	2.25
I357834		6.31	<0.005	<0.2	0.78	4	<10	80	1.1	<2	2.52	<0.5	7	13	10	1.98
I357835		2.38	<0.005	<0.2	0.30	<2	<10	20	<0.5	<2	1.11	<0.5	1	2	1	0.26
I357836		8.69	<0.005	<0.2	0.60	7	<10	50	0.7	<2	1.57	<0.5	4	10	4	1.14
I357837		5.66	<0.005	<0.2	0.79	4	<10	40	0.8	<2	1.81	<0.5	6	16	6	1.39
I357838		4.08	<0.005	<0.2	0.55	9	<10	40	0.6	<2	1.09	<0.5	3	7	3	0.93
I357839		0.13	2.17	15.0	0.98	25	<10	30	<0.5	<2	0.29	58.0	10	43	5190	9.23
I357840		2.00	0.006	<0.2	1.29	6	<10	90	1.1	<2	2.04	<0.5	8	22	15	1.80
I357841		0.75	0.015	<0.2	0.69	12	<10	120	1.3	<2	10.9	<0.5	6	5	5	1.97
I357842		0.92	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	20.6	<0.5	<1	<1	1	0.39
I357843		2.58	0.008	<0.2	0.70	11	<10	70	0.8	<2	1.54	<0.5	5	9	7	1.49
I357844		5.25	<0.005	<0.2	1.35	6	<10	90	0.8	<2	2.31	<0.5	9	38	9	2.06
I357845		4.08	<0.005	<0.2	0.86	13	<10	60	0.8	<2	2.50	<0.5	7	24	6	1.75
I357846		5.53	<0.005	<0.2	1.28	4	<10	130	0.8	<2	1.49	<0.5	7	28	7	1.98
I357847		1.98	<0.005	<0.2	0.42	14	<10	30	0.5	<2	1.50	<0.5	3	10	6	0.90
I357848		7.55	<0.005	<0.2	1.64	3	<10	100	0.8	<2	2.19	<0.5	11	41	9	2.61
I357849		8.47	<0.005	<0.2	1.36	3	<10	40	1.0	<2	1.76	<0.5	11	52	11	2.09
I357850		8.21	<0.005	<0.2	0.37	2	<10	20	0.5	<2	0.77	<0.5	1	6	3	0.67
I357851		4.38	0.006	<0.2	0.28	4	<10	20	<0.5	<2	0.67	<0.5	1	4	1	0.62
I357852		10.48	<0.005	<0.2	0.77	5	<10	30	1.0	2	0.94	<0.5	5	21	4	1.21

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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11177042

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I357817		10	<1	0.42	<10	1.34	448	<1	0.09	18	1110	<2	0.01	<2	5	51
I357818		10	<1	0.37	<10	1.07	443	<1	0.09	10	780	<2	0.04	2	7	63
I357819		<10	2	0.09	<10	1.04	375	14	0.02	23	110	257	>10.0	2	2	8
I357820		10	<1	0.04	<10	2.39	803	<1	0.05	16	220	<2	0.01	<2	5	26
I357821		<10	<1	0.69	20	1.48	424	1	0.07	23	600	<2	0.11	<2	6	46
I357822		<10	<1	<0.01	<10	12.40	232	<1	0.02	2	170	<2	0.02	<2	<1	53
I357823		<10	<1	0.21	20	0.15	192	1	0.07	1	270	2	0.01	<2	3	33
I357824		10	<1	0.43	10	1.07	483	<1	0.07	14	840	<2	0.01	2	10	50
I357825		<10	<1	0.41	20	0.41	485	1	0.04	12	680	8	0.01	<2	6	29
I357826		<10	<1	0.44	20	0.76	426	<1	0.06	10	550	2	0.09	2	5	92
I357827		<10	<1	0.57	30	1.19	691	1	0.04	14	830	4	0.04	<2	6	152
I357828		<10	<1	0.26	<10	0.58	341	1	0.09	3	590	<2	0.04	<2	5	36
I357829		10	<1	0.51	<10	1.30	490	<1	0.08	14	740	<2	0.02	2	7	56
I357830		10	<1	0.88	20	1.19	435	<1	0.07	17	560	2	0.04	<2	4	45
I357831		10	<1	1.12	40	1.07	544	2	0.06	13	730	5	0.02	<2	3	45
I357832		10	<1	1.27	30	1.25	532	1	0.05	16	680	4	0.06	<2	4	41
I357833		10	<1	0.91	40	0.90	442	1	0.06	11	480	3	0.05	<2	4	41
I357834		<10	<1	0.37	30	0.39	402	1	0.05	9	660	7	0.04	<2	3	53
I357835		<10	<1	0.15	20	0.07	103	<1	0.07	1	50	4	0.01	<2	<1	23
I357836		<10	<1	0.36	30	0.37	234	1	0.06	7	300	4	0.04	<2	2	34
I357837		<10	<1	0.48	30	0.54	273	1	0.05	11	300	5	0.05	<2	2	36
I357838		<10	<1	0.27	40	0.28	171	1	0.06	5	220	4	0.04	<2	2	25
I357839		<10	2	0.08	<10	0.97	355	13	0.02	23	110	254	>10.0	<2	2	8
I357840		<10	<1	0.57	30	0.51	411	<1	0.01	16	400	7	0.01	<2	4	27
I357841		<10	<1	0.28	30	0.29	826	<1	0.01	12	270	14	0.01	<2	2	96
I357842		<10	<1	<0.01	<10	11.90	206	<1	0.02	1	180	<2	0.01	<2	<1	52
I357843		<10	<1	0.29	40	0.30	334	1	0.04	6	450	8	0.01	<2	3	27
I357844		<10	<1	0.92	40	1.03	429	2	0.05	17	580	8	0.14	<2	6	53
I357845		<10	<1	0.50	40	0.51	293	2	0.04	14	370	8	0.06	<2	5	41
I357846		<10	<1	0.71	30	0.76	383	<1	0.05	14	410	6	0.05	<2	5	38
I357847		<10	<1	0.21	30	0.23	195	1	0.07	5	120	6	0.02	<2	2	30
I357848		10	<1	0.89	30	1.23	550	<1	0.05	16	660	5	0.11	<2	6	55
I357849		<10	<1	0.95	20	1.13	413	1	0.05	21	410	6	0.07	<2	5	39
I357850		<10	<1	0.18	30	0.08	145	1	0.07	1	120	11	0.02	<2	1	20
I357851		<10	<1	0.13	30	0.04	106	<1	0.06	1	70	4	0.01	<2	1	17
I357852		<10	<1	0.50	30	0.49	219	<1	0.06	7	190	5	0.03	<2	2	26

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11177042

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
I357817		<20	0.20	<10	<10	39	<10	38	
I357818		<20	0.16	<10	<10	38	<10	40	
I357819		<20	0.02	<10	<10	17	<10	>10000	1.345
I357820		<20	0.01	<10	<10	37	<10	69	
I357821		20	0.16	<10	<10	42	<10	36	
I357822		<20	<0.01	<10	<10	<1	<10	22	
I357823		20	0.02	<10	<10	1	<10	7	
I357824		<20	0.09	<10	<10	41	<10	35	
I357825		20	0.04	<10	<10	42	<10	40	
I357826		20	0.04	<10	<10	19	<10	26	
I357827		<20	0.05	<10	<10	35	<10	42	
I357828		<20	0.09	<10	<10	12	<10	22	
I357829		<20	0.16	<10	<10	43	<10	33	
I357830		<20	0.16	<10	<10	37	<10	35	
I357831		20	0.16	<10	<10	33	<10	46	
I357832		<20	0.18	<10	<10	36	<10	39	
I357833		20	0.11	<10	<10	32	<10	33	
I357834		30	0.03	<10	<10	25	<10	30	
I357835		40	<0.01	<10	<10	<1	<10	2	
I357836		40	0.03	<10	<10	10	<10	15	
I357837		30	0.04	<10	<10	12	<10	19	
I357838		30	0.02	<10	<10	5	<10	15	
I357839		<20	0.02	<10	<10	15	<10	>10000	1.300
I357840		20	0.05	<10	<10	21	<10	41	
I357841		20	0.01	<10	<10	15	<10	43	
I357842		<20	<0.01	<10	<10	<1	<10	19	
I357843		30	0.02	<10	<10	13	<10	24	
I357844		20	0.08	<10	<10	38	<10	30	
I357845		20	0.04	<10	<10	20	<10	20	
I357846		20	0.07	<10	<10	25	<10	24	
I357847		40	0.01	<10	<10	8	<10	11	
I357848		30	0.09	<10	<10	52	<10	41	
I357849		30	0.12	<10	<10	43	<10	29	
I357850		40	0.01	<10	<10	3	<10	8	
I357851		40	<0.01	<10	<10	<1	<10	4	
I357852		40	0.04	<10	<10	15	<10	14	

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

Finalized Date: 29- SEP- 2011
Account: F

CERTIFICATE WH11177044

Project: Arcus - Dan Man

P.O. No.: Batch 14

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 3- SEP- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 22Y	Split Sample - Boyd Rotary Splitter
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 29- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11177044

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
G0561745		5.12	0.041	0.3	0.58	74	<10	120	0.6	<2	0.74	<0.5	4	6	8	1.30
G0561746		3.49	0.038	0.2	0.72	65	<10	110	0.8	<2	0.98	<0.5	7	12	5	1.62
G0561747		4.54	<0.005	<0.2	0.71	31	<10	90	0.6	<2	0.86	<0.5	6	7	3	1.30
G0561748		3.26	0.491	0.2	0.89	1650	<10	170	2.0	<2	5.27	<0.5	22	19	12	4.66
G0561749		2.50	0.019	0.2	0.77	155	<10	250	0.7	<2	1.77	<0.5	6	10	8	1.40
G0561750		3.73	0.017	<0.2	0.99	150	<10	800	2.3	<2	6.50	<0.5	25	213	84	4.15
L837001		3.70	0.018	0.2	1.20	172	<10	1480	2.3	<2	4.24	<0.5	18	121	44	3.24
L837002		0.27	0.354	52.4	1.14	90	<10	60	<0.5	<2	0.51	20.7	17	31	4120	4.54
L837003		2.51	0.067	0.3	0.58	95	<10	380	1.5	<2	3.53	<0.5	9	19	14	1.95
L837004		0.62	<0.005	0.2	0.04	5	<10	20	<0.5	<2	17.5	<0.5	4	3	4	0.47
L837005		3.89	0.131	0.2	0.59	89	<10	130	0.6	<2	0.43	<0.5	4	6	2	0.78
L837006		3.63	0.083	<0.2	0.57	109	<10	60	0.5	<2	0.28	<0.5	3	10	4	0.61
L837007		2.02	<0.005	<0.2	2.18	32	<10	250	1.9	<2	3.02	<0.5	19	78	15	3.44
L837008		5.68	0.073	<0.2	0.87	173	<10	200	1.3	<2	1.52	<0.5	10	34	11	1.51
L837009		1.04	0.790	0.4	0.84	6620	<10	230	3.1	<2	0.60	<0.5	19	18	23	7.02
L837010		3.63	0.009	<0.2	1.01	141	<10	110	1.9	<2	4.99	<0.5	17	92	14	3.79
L837011		2.24	0.080	<0.2	0.58	192	<10	40	0.9	<2	0.52	<0.5	5	5	3	0.93
L837012		0.09	2.13	14.8	0.94	24	<10	30	<0.5	4	0.30	54.2	12	39	4840	9.00
L837013		4.46	0.160	0.2	0.70	340	<10	360	1.8	<2	3.45	<0.5	10	19	16	2.13
L837014		3.29	0.531	0.2	0.48	429	<10	200	1.2	<2	1.33	<0.5	6	4	4	1.33
L837015		3.22	0.064	<0.2	0.43	108	<10	90	1.2	<2	1.36	<0.5	4	3	7	1.03
L837016		0.76	<0.005	0.2	0.05	5	<10	10	<0.5	<2	17.90	<0.5	3	1	2	0.45
L837017		6.89	<0.005	<0.2	0.64	17	<10	120	1.0	<2	2.17	<0.5	6	12	2	1.03
L837018		6.65	<0.005	<0.2	0.47	12	<10	70	0.7	<2	1.43	<0.5	2	5	1	0.32
L837019		5.82	<0.005	<0.2	0.86	11	<10	50	1.8	<2	3.33	<0.5	11	10	1	2.34
L837020		3.32	<0.005	<0.2	0.37	2	<10	30	0.6	<2	0.51	<0.5	3	11	1	0.83
L837021		2.14	<0.005	<0.2	0.33	48	<10	270	0.6	<2	2.86	<0.5	4	4	<1	1.41
L837022		3.13	<0.005	0.2	0.50	13	<10	80	0.9	<2	2.27	<0.5	5	4	1	1.53
L837023		5.32	<0.005	<0.2	1.27	24	<10	180	1.3	<2	2.15	<0.5	10	3	3	2.71
L837024		1.44	<0.005	<0.2	0.33	2	<10	40	0.5	<2	1.76	<0.5	3	18	2	0.88
L837025		4.95	0.007	<0.2	1.15	67	<10	190	1.7	<2	2.58	<0.5	13	7	5	3.26
L837026		9.25	<0.005	<0.2	0.57	17	<10	90	1.0	<2	1.43	<0.5	5	16	2	1.16
L837027		9.00	0.005	0.2	0.74	6	<10	50	1.2	<2	1.37	<0.5	5	7	1	1.46
L837028		9.24	<0.005	<0.2	0.41	7	<10	40	0.7	<2	0.96	<0.5	3	11	1	0.94
L837029		8.62	<0.005	<0.2	0.43	12	<10	50	0.6	<2	0.57	<0.5	3	10	1	0.89
L837030		2.09	0.023	<0.2	0.63	18	<10	50	1.0	<2	0.48	<0.5	3	5	5	0.91

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Finalized Date: 29- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11177044

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
G0561745		<10	<1	0.16	50	0.04	313	<1	0.01	4	160	31	0.01	8	1	16
G0561746		<10	<1	0.23	40	0.12	448	<1	0.01	6	260	8	0.01	16	2	14
G0561747		<10	<1	0.19	40	0.06	323	<1	0.01	3	250	7	<0.01	9	1	14
G0561748		<10	1	0.25	20	0.26	943	2	0.01	19	930	24	0.02	27	11	42
G0561749		<10	<1	0.16	10	0.17	351	2	0.01	7	200	7	0.02	5	2	32
G0561750		<10	<1	0.14	10	2.30	1050	1	0.04	56	2020	15	0.29	46	22	193
L837001		<10	1	0.24	10	1.14	877	1	0.02	42	1370	18	0.08	38	13	128
L837002		<10	<1	0.53	10	0.66	473	152	0.05	23	870	2030	2.40	63	7	36
L837003		<10	1	0.12	20	0.11	567	1	0.01	14	240	26	0.04	12	3	33
L837004		<10	1	0.01	<10	11.30	211	<1	0.02	6	160	10	0.05	<2	<1	49
L837005		<10	<1	0.13	10	0.04	224	<1	0.01	3	80	15	0.01	6	<1	14
L837006		<10	<1	0.13	10	0.10	218	1	0.01	8	60	11	0.02	8	<1	10
L837007		<10	1	1.19	10	1.71	554	<1	0.03	47	640	9	0.02	6	9	47
L837008		<10	<1	0.36	10	0.57	438	<1	0.02	25	250	12	0.04	9	4	41
L837009		<10	1	0.46	30	0.13	681	1	0.01	32	1560	56	0.03	60	10	63
L837010		<10	<1	0.24	10	0.21	775	<1	0.01	28	760	8	0.01	35	15	55
L837011		<10	<1	0.19	10	0.05	251	<1	0.01	3	80	18	<0.01	10	1	25
L837012		<10	1	0.09	<10	0.91	321	12	0.02	20	100	233	>10.0	2	2	10
L837013		<10	<1	0.23	20	0.12	536	1	0.02	13	230	20	0.02	20	3	39
L837014		<10	<1	0.28	20	0.46	321	<1	0.01	3	160	15	0.90	16	1	97
L837015		<10	<1	0.25	20	0.26	301	1	0.01	<1	100	15	0.74	14	1	75
L837016		<10	<1	0.02	<10	11.55	213	<1	0.02	1	160	<2	0.02	<2	<1	51
L837017		<10	<1	0.28	30	0.33	377	1	0.03	5	260	7	0.08	5	1	50
L837018		<10	<1	0.26	40	0.04	308	<1	0.02	<1	50	8	0.01	4	<1	41
L837019		<10	<1	0.34	20	0.58	632	1	0.04	5	460	7	0.06	2	6	58
L837020		<10	<1	0.19	30	0.04	185	2	0.05	<1	120	5	0.01	2	1	20
L837021		<10	<1	0.20	30	0.07	1255	2	0.02	1	220	12	0.01	7	1	84
L837022		<10	<1	0.20	30	0.08	526	1	0.05	2	200	13	0.01	2	1	45
L837023		<10	<1	0.74	30	0.49	857	1	0.03	<1	610	10	0.02	10	6	66
L837024		<10	<1	0.17	20	0.19	200	2	0.03	1	90	11	0.01	<2	1	75
L837025		<10	<1	0.49	30	0.33	997	2	0.03	1	840	15	0.01	13	6	186
L837026		<10	<1	0.22	40	0.10	403	1	0.04	2	180	10	0.01	7	2	24
L837027		<10	<1	0.37	40	0.31	384	1	0.04	<1	460	7	0.04	3	2	40
L837028		<10	<1	0.19	40	0.07	227	2	0.05	<1	170	9	0.03	3	1	42
L837029		<10	<1	0.19	40	0.07	227	1	0.05	<1	130	7	0.01	5	1	22
L837030		<10	<1	0.20	40	0.12	300	<1	0.03	<1	100	14	0.01	7	<1	21

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VANCOUVER BC V6B 1L8

Finalized Date: 29- SEP- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11177044

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
G0561745		40	<0.01	<10	<10	5	<10	19	
G0561746		30	0.01	<10	<10	14	<10	23	
G0561747		30	<0.01	<10	<10	11	<10	18	
G0561748		<20	0.01	<10	20	97	<10	70	
G0561749		30	<0.01	<10	10	12	<10	19	
G0561750		<20	0.01	<10	40	134	<10	67	
L837001		20	0.02	<10	20	87	<10	51	
L837002		<20	0.08	<10	<10	84	<10	2510	
L837003		30	<0.01	<10	20	15	<10	40	
L837004		<20	<0.01	<10	<10	4	<10	34	
L837005		40	<0.01	<10	<10	3	<10	8	
L837006		40	<0.01	<10	<10	4	<10	14	
L837007		20	0.10	<10	10	67	<10	49	
L837008		30	0.02	<10	<10	23	<10	22	
L837009		<20	<0.01	<10	60	48	<10	82	
L837010		20	0.01	<10	10	98	<10	54	
L837011		30	<0.01	<10	<10	6	<10	13	
L837012		<20	0.02	<10	<10	15	<10	>10000	1.355
L837013		30	<0.01	<10	10	15	<10	40	
L837014		20	<0.01	<10	20	3	<10	21	
L837015		30	<0.01	<10	<10	2	<10	9	
L837016		<20	<0.01	<10	<10	2	<10	17	
L837017		30	<0.01	<10	<10	8	<10	23	
L837018		40	<0.01	<10	<10	1	<10	3	
L837019		20	0.01	<10	20	42	<10	46	
L837020		40	<0.01	<10	<10	2	<10	15	
L837021		40	<0.01	<10	<10	5	<10	24	
L837022		50	<0.01	<10	<10	9	<10	37	
L837023		30	0.09	<10	<10	58	<10	51	
L837024		20	<0.01	<10	<10	6	<10	22	
L837025		20	0.04	<10	<10	55	<10	66	
L837026		40	<0.01	<10	<10	12	<10	20	
L837027		30	0.02	<10	<10	17	<10	29	
L837028		40	0.01	<10	<10	4	<10	16	
L837029		40	<0.01	<10	<10	3	<10	17	
L837030		40	<0.01	<10	<10	2	<10	18	

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Finalized Date: 2- OCT- 2011
Account: F

CERTIFICATE WH11177045

Project: Arcus - Dan Man

P.O. No.: Batch 15

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 3- SEP- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11177045

Sample Description	Method	WEI- 21	Au- AA24	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	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
L837031		4.04	<0.005	<0.2	0.40	6	<10	30	0.6	2	0.58	<0.5	1	4	4	0.67
L837032		3.99	<0.005	<0.2	0.40	11	<10	30	0.7	<2	0.79	<0.5	1	3	4	0.89
L837033		2.85	<0.005	<0.2	0.43	9	<10	20	0.7	<2	0.51	<0.5	1	5	2	0.84
L837034		4.37	<0.005	<0.2	0.46	8	<10	20	0.9	<2	1.18	<0.5	4	10	3	1.22
L837035		3.45	0.029	<0.2	0.36	11	<10	20	0.6	<2	0.67	<0.5	1	5	4	0.76
L837036		6.51	<0.005	<0.2	1.40	7	<10	380	1.6	<2	2.28	<0.5	10	90	9	2.32
L837037		8.55	<0.005	0.2	0.35	7	<10	20	0.6	<2	0.84	<0.5	1	6	1	0.72
L837038		9.31	<0.005	<0.2	0.35	5	<10	20	<0.5	<2	0.67	<0.5	1	7	1	0.83
L837039		7.99	<0.005	<0.2	2.66	3	<10	280	0.9	<2	2.44	<0.5	18	100	22	3.15
L837040		10.01	<0.005	<0.2	2.50	2	<10	200	0.8	<2	2.26	<0.5	17	81	18	3.14
L837041		9.85	<0.005	<0.2	1.95	2	<10	210	0.8	<2	1.19	<0.5	12	53	15	2.57
L837042		10.33	<0.005	<0.2	1.31	3	<10	100	0.7	2	0.71	<0.5	8	31	13	1.91
L837043		7.76	<0.005	<0.2	1.41	3	<10	90	0.8	<2	0.90	<0.5	8	34	11	1.89
L837044		2.64	<0.005	0.2	0.62	4	<10	80	0.5	<2	0.38	<0.5	4	11	8	1.21
L837045		8.25	<0.005	<0.2	1.07	3	<10	80	0.5	<2	1.06	<0.5	7	30	7	1.62
L837046		4.55	<0.005	<0.2	0.47	3	<10	70	0.5	<2	1.57	<0.5	4	8	5	1.13
L837047		0.10	2.06	14.7	0.92	26	<10	30	<0.5	6	0.30	57.8	10	42	5140	9.34
L837048		1.50	<0.005	0.2	0.47	9	<10	140	1.0	6	2.40	<0.5	15	6	3	2.24
L837049		0.59	<0.005	<0.2	0.03	2	<10	20	<0.5	<2	20.6	<0.5	1	<1	1	0.49
L837050		4.97	<0.005	0.3	0.74	7	<10	80	1.8	<2	4.25	<0.5	12	11	8	3.21
I357801		6.26	<0.005	<0.2	1.79	5	<10	600	1.3	<2	5.12	<0.5	17	60	18	3.67
I357802		4.19	<0.005	<0.2	1.81	3	<10	190	1.1	<2	0.98	<0.5	9	7	5	3.15
I357803		1.93	<0.005	<0.2	1.35	4	<10	60	1.7	<2	0.46	<0.5	7	24	3	3.28
I357804		4.08	<0.005	<0.2	0.34	4	<10	40	0.5	<2	0.05	<0.5	1	6	3	0.49
I357805		3.57	<0.005	<0.2	1.23	7	<10	90	1.1	<2	0.27	<0.5	10	24	8	3.02
I357806		3.98	<0.005	<0.2	0.43	5	<10	50	0.6	<2	3.69	<0.5	5	9	2	1.78
I357807		0.12	2.09	14.0	0.87	26	<10	30	<0.5	6	0.29	56.3	10	40	4910	9.07
I357808		4.22	<0.005	<0.2	1.25	4	<10	140	0.9	5	3.96	<0.5	16	40	19	3.20
I357809		0.75	<0.005	<0.2	0.03	4	<10	10	<0.5	<2	20.1	<0.5	1	<1	2	0.48
I357810		6.73	<0.005	<0.2	0.50	2	<10	30	<0.5	<2	1.26	<0.5	3	13	5	1.75
I357811		7.49	<0.005	<0.2	1.29	6	<10	110	0.6	<2	2.11	<0.5	10	30	5	2.71
I357812		4.78	<0.005	<0.2	2.09	8	<10	180	1.0	<2	3.88	<0.5	16	137	11	3.72
I357813		1.05	<0.005	<0.2	0.17	3	<10	10	<0.5	<2	3.54	<0.5	5	8	2	1.82
I357814		2.61	<0.005	<0.2	0.85	5	<10	50	0.6	<2	5.16	<0.5	12	23	9	3.80
I357815		5.94	<0.005	<0.2	1.22	5	<10	220	0.6	<2	2.70	<0.5	10	30	9	3.45
I357816		6.44	<0.005	<0.2	2.35	4	<10	140	0.5	<2	2.50	<0.5	21	58	26	3.82

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VANCOUVER BC V6B 1L8

Finalized Date: 2- OCT- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11177045

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	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
L837031		<10	<1	0.20	30	0.07	301	<1	0.03	3	120	9	<0.01	3	<1	17
L837032		<10	<1	0.15	30	0.07	271	<1	0.03	1	90	9	<0.01	6	1	23
L837033		<10	<1	0.17	40	0.08	160	<1	0.03	<1	110	8	<0.01	3	<1	18
L837034		<10	<1	0.21	40	0.19	333	<1	0.04	2	180	11	0.03	6	2	35
L837035		<10	<1	0.18	40	0.05	274	<1	0.03	<1	110	10	<0.01	2	<1	20
L837036		<10	<1	0.88	30	1.33	781	<1	0.04	17	470	10	0.08	6	5	79
L837037		<10	<1	0.17	40	0.06	250	<1	0.04	<1	120	10	0.02	2	1	27
L837038		<10	<1	0.17	40	0.10	270	2	0.04	1	130	11	0.11	2	1	19
L837039		10	<1	1.76	20	2.52	713	<1	0.04	42	560	5	0.03	<2	4	33
L837040		10	1	1.48	20	2.27	703	<1	0.04	39	650	8	<0.01	<2	5	39
L837041		10	<1	1.35	30	1.58	556	<1	0.05	20	810	3	<0.01	<2	3	39
L837042		<10	<1	0.85	40	0.95	418	<1	0.06	12	490	7	<0.01	<2	2	29
L837043		<10	1	0.97	20	1.13	420	<1	0.06	14	390	4	0.01	<2	2	26
L837044		<10	<1	0.37	40	0.29	264	<1	0.06	5	310	9	<0.01	<2	1	12
L837045		<10	<1	0.56	40	0.77	380	<1	0.06	13	390	5	<0.01	<2	2	31
L837046		<10	<1	0.31	30	0.22	262	<1	0.05	4	330	5	0.02	<2	1	21
L837047		<10	2	0.10	<10	0.93	341	11	0.01	20	110	248	>10.0	2	2	7
L837048		<10	<1	0.33	30	0.11	426	8	0.04	9	510	2	0.01	<2	2	20
L837049		<10	<1	0.01	<10	12.45	224	<1	0.02	2	160	<2	0.01	<2	<1	52
L837050		<10	<1	0.54	30	1.35	752	<1	0.03	7	940	5	0.06	3	5	174
I357801		<10	1	1.06	10	2.27	927	<1	0.04	29	700	6	0.03	3	7	146
I357802		10	<1	0.75	10	1.35	477	<1	0.06	4	1210	3	<0.01	<2	7	44
I357803		10	<1	0.34	10	0.88	506	<1	0.03	8	880	5	<0.01	2	8	22
I357804		<10	<1	0.16	20	0.06	110	<1	0.05	2	100	3	<0.01	<2	1	5
I357805		<10	<1	0.32	10	0.73	518	<1	0.04	12	650	3	<0.01	<2	9	14
I357806		<10	<1	0.20	10	0.19	395	<1	0.04	4	290	3	<0.01	<2	4	34
I357807		<10	1	0.09	<10	0.89	328	10	0.01	20	110	241	>10.0	3	2	7
I357808		<10	<1	0.59	20	1.88	738	2	0.05	18	670	2	0.02	<2	8	90
I357809		<10	1	0.01	<10	12.15	220	<1	0.02	1	160	<2	0.01	<2	<1	54
I357810		<10	<1	0.19	10	0.38	217	5	0.07	3	220	4	0.01	<2	4	31
I357811		10	1	0.38	10	1.06	411	<1	0.07	11	570	3	<0.01	<2	7	38
I357812		10	<1	0.74	10	2.06	738	<1	0.06	31	750	3	<0.01	<2	12	63
I357813		<10	<1	0.08	<10	0.96	478	<1	0.04	9	380	3	<0.01	<2	4	65
I357814		<10	<1	0.38	20	1.08	1045	<1	0.04	11	1610	3	<0.01	2	8	121
I357815		<10	<1	0.42	<10	1.09	636	<1	0.08	6	800	2	0.06	<2	8	65
I357816		10	<1	0.47	<10	2.30	735	<1	0.08	25	1190	2	<0.01	<2	7	67

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 2- OCT- 2011
Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11177045

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
L837031		30	<0.01	<10	<10	2	<10	15	
L837032		40	<0.01	<10	<10	3	<10	19	
L837033		40	<0.01	<10	<10	2	<10	18	
L837034		40	0.01	<10	<10	11	<10	25	
L837035		40	<0.01	<10	<10	2	<10	17	
L837036		30	0.08	<10	10	43	<10	44	
L837037		40	<0.01	<10	<10	2	<10	11	
L837038		40	0.01	<10	<10	3	<10	18	
L837039		<20	0.23	<10	<10	61	<10	51	
L837040		<20	0.21	<10	<10	57	<10	51	
L837041		<20	0.21	<10	<10	39	<10	49	
L837042		20	0.13	<10	<10	26	<10	38	
L837043		20	0.15	<10	<10	30	<10	34	
L837044		20	0.03	<10	<10	10	<10	20	
L837045		20	0.06	<10	<10	19	<10	24	
L837046		20	0.01	<10	<10	6	<10	14	
L837047		<20	0.02	<10	<10	16	10	>10000	1.345
L837048		20	0.01	<10	<10	8	<10	17	
L837049		<20	<0.01	<10	<10	1	<10	21	
L837050		<20	0.01	<10	<10	19	<10	52	
I357801		<20	0.08	<10	<10	48	<10	53	
I357802		<20	0.13	<10	<10	56	<10	38	
I357803		<20	0.01	<10	<10	31	<10	32	
I357804		40	<0.01	<10	<10	3	<10	5	
I357805		<20	0.02	<10	<10	36	<10	31	
I357806		<20	0.01	<10	<10	8	<10	20	
I357807		<20	0.02	<10	<10	15	<10	>10000	1.360
I357808		<20	0.05	<10	<10	41	<10	43	
I357809		<20	<0.01	<10	<10	1	<10	19	
I357810		<20	0.02	<10	<10	8	<10	16	
I357811		<20	0.06	<10	<10	43	<10	30	
I357812		<20	0.09	<10	<10	72	<10	50	
I357813		<20	<0.01	<10	<10	6	<10	24	
I357814		<20	0.02	<10	<10	32	<10	47	
I357815		<20	0.08	<10	<10	35	<10	35	
I357816		<20	0.19	<10	<10	72	<10	57	

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Finalized Date: 18- OCT- 2011
Account: F

CERTIFICATE WH11195742

Project: Arcus Dan Man

P.O. No.:

This report is for 35 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- SEP- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
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Finalized Date: 18- OCT- 2011
Account: F

Project: Arcus Dan Man

CERTIFICATE OF ANALYSIS WH11195742

Sample Description	Method Analyte Units LOR	Au- AA24 Au ppm 0.005
J998136		0.061
J998137		0.267
J998138		0.059
J998139		0.063
J998140		0.047
J998141		0.067
J998142		0.191
J998143		<0.005
J998144		<0.005
J998145		0.008
J998146		0.008
J998147		0.010
J998148		0.006
J998149		<0.005
J998150		<0.005
J998151		<0.005
J998152		2.05
J998153		<0.005
J998154		<0.005
J998155		<0.005
J998156		<0.005
J998157		<0.005
J998159		<0.005
J998160		0.013
J998161		0.006
J998162		<0.005
J998163		<0.005
J998164		<0.005
J998165		<0.005
J998166		<0.005
J998167		<0.005
J998168		<0.005
J998169		NSS
J998170		<0.005
J998171		<0.005

***** See Appendix Page for comments regarding this certificate *****

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Account: F

Project: Arcus Dan Man

CERTIFICATE OF ANALYSIS WH11195742

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

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Finalized Date: 18- OCT- 2011
Account: F

CERTIFICATE WH11196690

Project: Arcus - Dan Man

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- SEP- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER	HEATHER SMITH	BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Account: F

Project: Arcus - Dan Man

CERTIFICATE OF ANALYSIS WH11196690

Sample Description	Method Analyte Units LOR	Au- AA24 Au ppm 0.005
J998172		<0.005
J998173		<0.005
J998174		<0.005
J998175		<0.005
J998176		<0.005
J998177		0.005
J998178		<0.005
J998179		0.026
J998180		<0.005
J998181		<0.005
J998182		<0.005
J998183		<0.005
J998184		<0.005
J998185		<0.005
J998186		<0.005
J998187		2.23
J998188		0.021
J998189		<0.005
J998190		<0.005
J998191		0.028
J998192		<0.005
J998193		<0.005
J998194		<0.005
J998195		<0.005
J998196		<0.005
J998197		<0.005
J998198		<0.005
J998199		<0.005
J998200		<0.005
J998201		<0.005
J998202		0.340
J998203		<0.005
J998204		<0.005
J998205		<0.005
J998206		<0.005
J998207		<0.005

APPENDIX IV

GEOLOGICAL AND GEOTECHNICAL LOGS

Dan Man PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		582944	6977803	1012	218.6

ZONE: Area A

SECTION: 1

HOLE: DM-01-11

CLAIM: DM 22

Contractor: Elite Diamond Drilling

Drill: JKS200

Core size: BTW

Casing depth: 3.05 (m) in / out

Drilling dates: July 27 to July 30

Geology logged by: Heather Smith

TARGET: Gold soil geochemistry and geophysical lineaments

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	0	-45	compass	217	0	-31	Acid

SUMMARY

From (m)	To (m)	Interval	Unit	Comments

SAMPLES

Numbers:

Total:

Batch:

Date Sent:

Certificate:

COMMENTS

GEOLOGY LOG

HOLE: DM-01-11

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
0.00	4.57	4.57																									No recovery
4.57	5.21	0.64				SCH	GY		FO	30			SIL						Qz	Fs	Mu	Py	t				medium grey schist with metallicy mica (grey), trace disseminated pyrite with rusty halos.
									CO	40																	Contact 40 degrees
5.21	11.07	5.86				SCH	BR		Fx	70			OXI	CLY	ANK	LIM			Mu	Mg	ser	Py	t				Oxidized, punky schist with black manganese fracture coatings. Trace disseminated pyrite. Clay alteration (montmorillonite and kaolinite).
			7.40	7.88		SCH	RD		FO	50																	Rubble zone * shear/fault? Same composition as above. Weak sericite alteration
			8.85	8.90	0.05																						5 cm clay-crackle breccia
			10.00	10.10	0.10																						10 cm mica-clay seam
			10.20	10.65	0.45																						Quartz sweats, grey-white quartz (40 degrees). At 10.65 - rubble zone -20 cm quartz dominant last 20 cm is feldspar altered to orange and yellow.
11.07	14.63	3.56				INT?	wh		CO	40			SIL	BLE	CLY												Contact 40 degrees
							yw		FX	30									Mu	Bi	Ang						Intrusive? Remant textures. Re-crysallizeD? Moderatly spotty intrusive. Siliceous, no remnant textures. Weakly foliated, foliation planes.
			13.32	13.64	0.32		gy		FX	40									Fsp	Qz	Mg						Argillic, white clay alteration, soft rock hosting < 2 cm clear to pale grey quartz veins parallel to core axis.
																			Ser								At 13.53 m increase in silicification
14.63	16.72	2.09				GNE	ZONE		Fx	50																	Contact 50 degrees
									Fx	60		Over							Fd	Qz	Mu	Py	t				fracture density is 6 per 10 cm area
																			Mg								First 36 cm is white to grey quartz flood. Obliterated gneiss with small quartz eyes (< 2mm).
16.72	20.67	3.95				GNE	ZONE	BR	Fx	30			SIL	OXI					Mg								Contact at 16.72 m is gradational but at 60 degrees. Still within same unit.
			17.00	17.60	0.60			RD					LIM	ANK													30 degree limonite-ankerite fracture-vein (hairline
			19.02	19.36	0.34			OR																			Rubble-Clay zone with fracture-crackle breccia, quartz eyes suspended in matrix.
			23.77	24.34	0.57																						Intense mount morillonite kaolinite clay alteratio
24.34	26.56	2.22				GNE	ZONE	YW	FO	70									Qz	Fd	Ser	Mg		Py	t		Highly oxidized gneiss zone with relict gneiss texutres and abundant foliation parallel and cross cutting fractures. Some limonite coated, some manganese rich. < 1 cm quartz veins-late stage, foliation parallel, metamorphic-type quartz.
								OR	riddled!																		web textures of black sulphides. Contact at 26.56 m. Fractured at 80 degrees, cross cutting foliation at 50 degrees.
								BR																			

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
26.56	28.60	2.04				DYKE		GY	CO	80			SIL														Felsic dyke, slightly crystalline, pockets of sooty?? Mineral. Siliceous with local clay altered feldspar crystals. Contact at 28.60 m is steep 80 degrees.
						QFP		WH																			
								GR																			
28.60	31.50	2.90				GNE		WH	FO	30			BLE	SIL					QA	Fd	Mg	Py	t				Silicified gneiss with bleached zones.
			29.60	29.75	0.15			OR					ANK														Ankerite alteration, relict foliation
								GY																			
31.50	35.77	4.27				GNE		BR					BLE	SIL	ANK				Mu	Ser	Qz	Py	t				Trace to weak pyrite in gneiss, grey to white quartz floods with crackle textures.
			33.00	34.00	1.00			OR	Fx	40	Fx	50	LIM						Fd	Mg							
			34.60	35.10	0.50			WH	Fx	90																	White to grey quartz zone with disseminated pyrite and oxidized rims.
								YW																			Ankerite-limonite pseudo crackle breccia textures.
			35.53	35.77	0.24																						Argillic to kaolinitic clay with fine grained manganese crystals.
35.77	40.59	4.82				GNE	BR		Fo	60			SIL	ANK					Mg	Qz	Fd						Highly fractured, relict foliation gneiss with 60 degree core axis angles, limonitic and ankeritic fractures.
			35.90	36.50	0.60		OR		Stockwork				LIM	CLY					Mu	Ser							Intense fracturing, weak clay on fracture surfaces.
							YW																				
							WH																				
40.59	42.20	1.61				DYKE	BK												Bi	Cl	Ser						Contact- ultra mafic, fine grained, chlorite-sericite hornblende-biotite dyke.
							GR												Hbl								
42.20	48.43	6.23				GNE	RD						SIL	BLE					Qz	Ser	Mg	Py	t				Hemitized-silica/rose quartz, megacrystic quartz eyes (augens) sericite alteration of mica. Manganese dendrites on fractures - 1 cm crackle quartz.
							WH		Fo	50			HEM									BK	??				Pseudo jigsaw-fit breccia with disseminated black, fine grained sulphide.
							BK																				Contact at 48.43 broken.
48.43	51.64	3.21				DYKE	WH		Fo	40			LIM						Qz	Fd	Ser	Py	t				Rubble- quartz-feldspar porphyry with sericite and minor clay with rare quartz veins.
			49.54	51.64	2.10	QFP	YW												Mu	Mg							pseudo foliation - manganes dendrites with small xenoliths of sericite rich gneiss.
							GY																				
51.64	58.38	6.74				SCH	RD		Fo	50			HEM	LIM	SIL				Qz	Fd	Ser	Py	t				Hemitized schist - vuggy pyrite cubes with limonite pits.
						HEM	GY												Mg	Bl							Hairline fractures 20 degrees to foliation.
							WH																				
			58.30				YW		Fo	50																	At 58.30 m, foliation at 50 degrees, fractures at 60 degrees opposite (pyrite lined with limonitic envelopes).

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
58.38	58.86	0.48				Crackle			FO	40			SIL														Crackle breccia zone. Contact at 50 degrees, fine grained, black matrix, disagregated sulphide?
						BRXX			Mzd	30			HEM														< 5 mm quartz fragments, floods, sericite-ankerite-limonite. Hairline fracture coat of fine sulphides.
58.86	62.31	3.45				HEM SIL SC		RD	FO	40			SIL						Bi	Ser		Py	t				Contact with quartz vein is 40 degrees
								GY					HEM									Ag?	?				Hematitic quartz schist with relict foliation, disseminated silver mineral ? Black ultra fine grained fracture coating - sulphide.
			60.40						FO	40									Bi	Ser							foliation
			61.00	62.31																							Sericite, green clay on fractures. Rare < 7 mm quartz eyes. Contact at 62.31 m - vertical? Abrupt.
62.31	63.22	0.91				DYKE		BK											Bi	Ser	Act						Rubbly, clay rich ultramafic dyke. Slickensides on surface with rusty fracture coating.
								GR											Hbld								
63.22	66.00	2.78				SCH ALT ZONE			FO	35			OXI	HEM					Qz	Mu	Ser	Py	w-f				Originally schist with quartz veins and hematite fractures, oxidized and hemitized.
								TN											Fd			As	t				
								BR														Sp	t				
								OR																			
								RD	MZN	60																	Finaly disseminated, semi massive seams (< 3 mm) of locally brecciated rock.
66.00	70.10					GNE ALT ZONE			CO	30			SIL	HEM													Contact at 66 m is foliation parallel at 30 degrees. Silicified ankerite-limonite gneiss with subtle quartz eyes.
			68.50	70.10				OR	FO	30																	Argillic altered feldspar within gneiss. < 1 cm white-grey quartz bands, foliation parallel.
			69.60					BR																			Multi-episode sulphide-lined, limoite envelopec fractures. 60 to 30 degrees, foliation parallel.
								GY	VN	30			ARG														
								WH	FO	30																	Contact has distinct ankerite overprint
									CO	20																	Contact is 20 degrees
70.10	71.35	1.25				SCH		BR					SIL	LIM													
								RD					ANK	HEM					ser			Py	t				Hemitized, siliceous schist with sericite alteration. Limonitic fractures. Contact at 71.35 m is 30 degrees, parallel to foliation
								GY	FO	30																	
									FX	60																	
71.35	72.24	0.89				SCH		GY	FO	40									Qz	Bi	Mu	Py	t				Un altered sericite-muscovite schist. Silicified trace disseminated pyrite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
72.24	74.05	1.81				GNE		BR	FO	40			HEM	SIL					Ser								Hemitized, silicified gneiss (quartz eyes). Sericit alteration. < 4 mm black sulphide seams. Cross cutting foliation, brecciating country rock. Minor limonite on fracture surfaces.
								RD	SX	10																	
								OR	FX	40	opp																
74.05	77.52	3.47				DYKE		BK	CO	60									Ser	Bi	Hbl						Contact at 60 deg. Ultramafic dyke. Competent.
						UM		GR																			
			75.59	76.00																							Foliation parallel, helitite-silica alteration zone
			76.10	76.30																							2., 4 cm qhite-grey quartz floods. Foliation parallel.
			77.42	77.52																							1 cm calcite blebs
77.52	80.44	2.92				GNE ZONE			CO	40													Gy	t			Silicified, weakly bleached gneiss. Weak ankerite stain, disseminate pyrite and stringrs of metallic grey black mineral. Cross cutting calcite veinlets. Includes wavy ankerite stringers and 20 cm xenolith of UM dyke
																							BK	t			
80.44	82.69	2.25				DYKE													Chl	Act	Ca						Green-black fine grained dyke with < 2 cm quartz veinlets hosting red silica and 2 mm dark grey disseminated sulphides.
						UM			Ca	40									Hbl	Bi							
			80.60	80.64																							Quartz vein
			81.00	81.10																							Quartz vein
			82.25	82.28																							Quartz vein
									CO	30																	Contact at 30 degrees
82.69	87.25	4.56				GNE			FO	40			HEM	SIL	ANK												Siliceous, quartz-augen gneiss
			82.70																								foliation at 30 degrees. Disseminated sulphide
			82.90	83.00																							xenolith of dyke. Orientation 40 upper, 40 opposite lower.
			87.00						FO	35																	
87.25	87.79	0.54				DYKE		GR					SIL						Bil	Chl	Act						Speckled dyke, silicious. Upper contact 40, lower 40 - opposite.
						UM		BK											Ser								
87.79	89.80	2.01				SIL GNE		BR	FO	40			SIL	HEM	ANK												Siliceous gneiss with quartz eyes, relic foliation. Overprinting of ankerite, < 20 cm blebs.
								RD																			
								GY																			
89.90	92.05	2.15				GNE		WH	FO	30			CLY	SIL													Bleached, relatively un altered gneiss. Siliceous with rare disseminated pyrite and ankerite blebs. Rare white-grey quartz floods.
								GY	CO	25																	Contact 25 degrees
92.05	95.22	3.17				DYKE		GR											Chl	Ser							Speckled dyke- sericite - chlorite-biotite hornblende. Rare ankerite veinlets.
			93.30	93.32		UM		BK											Bi	Act							Quartz ankerite vein

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
			94.16	95.21																							Ankerite overprint with < 2 cm veins and cross cutting calcite veinlets. < 2 mm apple green diopside crystal? Boudenaged quartz.
																											Contact at 95.22 40 degrees
95.22	100.00	4.78				GNE		RD	VN	30			SIL						BI	Ser		Py	t				Siliceous, but otherwise unaltered gneiss. Pale grey white and brown.
			95.92	95.94				GY	VN	40									Qz								2 cm quartz vein - minor breccia and weakly disseminated pyrite.
									FO	40																	Contact at 100 m 45 degrees
100.00	103.06	3.06				GNE		PR					SIL	HEM					Ca	Qz	Fd	Py	t				Siliceous gneiss with abundant hematite-silica stain.
								RD	FO	30									Ser								< 10 cm ultramafic dyke xenolith/
103.06	103.66	0.60				DYKE							SIL														Speckled, slightly siliceous ultramafic dyke. Upper contact 40 degrees, lower contact 40 degrees.
						UM																					
103.66	105.16	1.50				GNE	ZONE	BR	FO	40			ANK	SIL					Ser			Py	t				Ankerite-rich gneiss < 5 mm quartz eyes. Trace disseminated pyrite, weak sericite alteration. Hairline fractures at 40 degrees. 12/10 cm density. Contact is gradational.
								OR	FX	40	opp																
105.16	107.27	2.11				GNE	ZONE	PK	FO	40			HEM	SIL					Qz	Ser	Ms						Alteration change
								RD											Mg								
								BR																			
107.27	109.26	1.99				GNE	ZONE		Ca	20			ANK	SIL					Qz	Ser	Ms						Siliceous gneiss, ankerite-silica overprinting. Manganese on fracture surfaces. Small calcite veinlets. Contact at 109.26 is 40 degrees.
									CO	40									Mg								
109.26	114.05	4.79				GNE	ZONE	RD	FO	30			HEM	SIL					Ser	Qz	Mg						Silicified gneiss with limonitic fractures. Strong hematitic overprint.
			112.90	112.98				OR					ANK														Quartz floods with disseminated pyrite and subtle pock-marks.
								BR	FO	30																	Foliation at 113.86 is 30 degrees
114.05	114.50	0.45				DYKE			CO	40									Chl	Ep	Bi						Speckled dyke - siliceous weak fabric, 40 degrees.
						UM			CO	40	same								Act	Hb	Ser						
114.50	120.71	6.21				GNE	ZONE	TN					ANK	SIL	LIM							Bk	t				Moderatly altered gneiss, relcit foliation. < 0.75 cm clear, foliation parallel quartz sweats. Un mineralized. Density is 3 per metre.
								OR	VN	35																	
								BR	FO	40									Ser	Mg							
								WH	VN	35																	
120.71	125.24	4.53				GNE		RD	CO	40			HEM	ANK	SIL				Qz	Fd	Ms						Evidence of folding, Contact at 120.71 is foliation parallel at 40 degrees. Quartz eyes <8.75 cm gneiss. Hematite-ankerite-siliceous
								OR											Mg	Ser		Py	t				121.00 to 121.52 bleached grey-white quartz zone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS									DETAILED DESCRIPTION
																	Other						Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity	Photo	
			125.20	125.24	0.04			BR	FO	30																	White grey quarty with rusty disseminated pyrite. Hairline fractures. Cross cutting siliceous, hematite-rich gneiss.
									CO	70																	Contact 70 degrees
125.24	127.74	2.50				GNE		RD					SIL	HEM	LIM				Ser	Bi	Qz						Siliceous, hematite-rich gneiss with relict quartz bands. Hairline limonitic zones.
								BR	FO	30									Fd	Red-pink mica?							
			127.41	127.74	0.33			WH	CO	35																	Xenolith of a dyke. Lower contact is 35 degrees
127.41	129.24	1.83				SCH		PK	FO	30			HEM	SIL					Ser			Py	t				Maroon-hematite stained siliceous schist. Well foliated, no large quartz eyes. Contact is a small, broken seam.
								RD																			
129.24	131.58	2.34				SCH		GY					Weak ANK						Ser	Mu	Qz	Py	t				Finely laminated grey schist. Disseminated pyrite cubes < 2 mm.
			131.20	131.25	0.05														Ank								White to grey quartz floods at 70 degrees.
																											Contact at 131.58 m
131.58	134.50	2.92				GNE		RD	FO	20			LIM	HEM	ANK				Ser	Qz	Ank	Py	t				Siliceous quart-eye gneiss. Relict foliation, hairline hematite stringers. Ankerite halos around fractures. Contact 134.50 m, foliation parallel alteration at 40 degrees.
													SIL														
134.50	137.63	3.13				GNE ZONE * OXI			FO	40																	Oxidized, moderately crumbly gneiss. Disseminated trace pyrite. Weak zones of yellow, soft clay altered feldspars.
			134.75	134.78	0.03			TN	VN	40																	Quartz vein, white to grey, foliation parallel 40 degrees. No visible sulphides.
			135.00	135.60	0.60			YW	FO	45																	Rubble
			136.55	137.00	0.45			OR	FX	45																	Distinct pale yellow speckled alteration
								BR																			
137.63	142.15	4.52				GNE		RD	FO	35			HEM	SIL					Ser	Qz		Py	t				Maroon-altered gneiss with subtle quartz vein < 1 cm foliation parallel. Rare disseminated pyrite and trace ankerite veinlets.
								BR	VT	80																	Core tube? At 139.59 stuck on core
									FX	45																	
142.15	144.57	2.42				GNE		BR	FO	50									Ser	Bi		Py	t				Sericite altered gneiss with disseminated black sulfide, remnant foliation
								RD	FX	40	opp								Qz	Fd							
								OR																			
144.57	152.04	7.47				GNE		GY	FO	30			SIL	HEM					Ser			Py	t				Silicified, coarse quartz gneiss with foliated sericite - metallic grey mica.
								RD																			
			145.80	145.84	0.04			WH	VN	nd 50																	Dark grey quartz vein with disseminated sulphide.
			151.00	151.60	0.60																						quartz vein, foliation parallel at 40 degrees
152.04	160.00	7.96				GNE		RD	FO	40			HEM	SIL	ANK												Siliceous gneiss with trace pyrite, mottled red appearance.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
			157.53	159.00	1.47			OR																			"cow' textured silica-hematite-quartz zone with fractures of limonite. 2 cm ultramafic dyke zones.
																											Contact at 30 degrees
160.00	161.90	1.90				GNE		RD	FO	40			LIM	ANK	SIL				Qz	Ca	Mu	Py	w				Altered gneiss, moderately foliated, disseminated pyrite, manganes on fractures. 2 cm siliceous ankerite bands. Vein at 161.15 m at 40 degrees.
								OR	FO	30									Ser								
								BR																			
161.90	169.53	7.63				GNE		MAR					HEM	SIL					Qz	Ca	Mu	Py	w				Maroon gneiss with abundant hematite stain, chlorite and sericite bands.
								RD											Ser	Chl							
			167.90	168.00	0.10				FO	30																	Quartz-calcite vein with coarse disseeminated pyrite, rimmed black halos.
169.53	170.94	1.41				DYKE		GY	CO	50			SIL									Py	t				Quartz feldspar porphyry dyke with rusty feldspars, silicified, weakly disseminated pyrite cubes.
						QFP		GR	CO	50																	
170.94	176.93	5.99				GNE		RD	FO	30			SIL	HEM					Ser	Chl	Bi	Py	t				Siliceous hematitic gneiss.
								MAR											Qz	Fd							173.90 foliation 30
																											rare calcite veinlets, 60 degree opposite to foliation
			175.80	175.96	0.16																						Stockwork ankerite veining
									VN	30	CO	30															Contact at 176.93 is 30 degrees with quartz vein
176.93	178.00	1.07				BRXX ZON		OR					OXI	LIM	ANK												Quartz-flooded breccia zone with weak ankerit. Limonite, sericite, silicification and weakly disseminated pyrite. Fracture fillings of limnoite at 70 degrees. Ankerite-hematite overprinting.
								YW					SIL														
								BR	FX	30																	
									CO	70																	
178.00	182.20	4.20				GNE		MAR					HEM	SIL					Ser			Py	t				Maroon, white-cream gneiss with quartz eyes, weak sericite and trace disseminated pyrite.
182.20	185.32	3.12				SCH		GY	FO	40			BLE	SIL													Bleached-siliceous schist with sericite alteration and grey-white quartz veins. Disseminated pyrite.
								WH																			
185.32	187.64	2.32				GNE		YW	FO	40			SIL	ANK					Fd	Ser	Kao						Specikled gneiss with fractures lined with clay. Feldspar altered to kaolinite. Grey quartz eye lenses, sericite alteration.
						Speckled		BR	CO	30			CLY														187.00 2 x 1 cm quartz veins per 10 cm. Contact 30
187.64	196.50	8.86				GNE		MAR	FO	40									CL	BI	Ser	Py	t				Listwanite altered? Quartz eye gneiss. Biotite altered to chlorite and mariposite?
			189.00	189.12	0.12														Mu	Ca	Mar						red, jasperoidal alteration with epidote and calcite. Similar throughout.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS									DETAILED DESCRIPTION
																	Other						Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity	Photo	
																											192.50 m a 20 cm seam with abundant epidote.
196.50	206.00	9.50				GNE	BR						OXI	ANK	SIL				Ser	Mg		Py	t				Gneiss zone with oxidized-ankerite overprint. Serici alteration, manganese on fractures.
							OR																				
			197.85	198.15	0.30				VN	40																	Quartz vein breccia- ankerite zone. Finely disseminated pyrite.
			200.00	204.50	4.50				FO	40												Py	w	`			Increase in pyrite, white to grey quartz with minor clay, abundant stockwork fractures and disseminated, pitty pyrite. Fol at 201 m is 40 degrees.
			203.00	203.61	0.61																						rubble increase, bleached stockwork fractures linec with sulphide at end. Contact is nubbly because of drilling.
206.00	212.70	6.70				GNE	MAR		Fx	90			SIL	HEM													Same gneiss at 187.64-196.50.
			209.80	212.70	2.90					Fx	70											Py	t				Mylonitic gneiss. Ankerite overprint-pseudo stockwork of veinlets
212.70	213.90	1.20				GNE		GY		CO	60								Ser	Kao		Py	t				
			212.70	213.00	0.30			WH		FX	60																Increase in hematite within sericite altered gneiss.
										Fx	40																
213.90	218.85	4.95				GNE		MAR		FO	30		SIL	HEM					ser								Silicified hematite-ankerite gneiss with elongated 6 mm by 2 mm quartz eyes. Foliation at 30 degrees.
								GY		QZ	30																215.80 foliation 30
																											218.50 to end of hole is 'mottled, cow-textured' siliceous hematitic gneiss.

GEOTECHNICAL LOG

HOLE: DM-01-11

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
		0.00		####		####				
		0.00		####		####				
		0.00		####		####				

SAMPLE LOG

HOLE: DM-01-11

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
4.57	5.21	0.64		0	J998136	1					
5.21	8.21	3.00		0	J998137	1					
8.21	11.07	2.86		0	J998138	1					
11.07	14.63	14.63		0	J998139	1					
14.63	16.72	2.09		0	J998140	1					
16.72	20.67	3.95		0	J998141	1					
20.67	24.34	3.67		0	J998142	1					
		0.00		####	J998143	1					BLANK
24.34	26.56	2.22		0	J998144	1					
26.56	28.60	2.04		0	J998145	1					
28.60	31.50	2.90		0	J998146	1					
31.50	35.77	4.27		0	J998147	1					
35.77	40.59	4.82		0	J998148	1					
40.59	42.20	1.61		0	J998149	1					
42.20	45.20	3.00		0	J998150	1					
45.20	48.43	3.23		0	J998151	1					
		0.00		####	J998152	1					CDN-ME-2
48.43	51.64	3.21		0	J998153	1					
51.64	55.64	4.00		0	J998154	1					
55.64	58.38	2.74		0	J998155	1					
58.38	58.86	0.48		0	J998156	1					
58.86	62.31	3.45		0	J998157	1					
62.31	63.22	0.91		0	J998158	1					
63.22	66.00	2.78		0	J998159	1					
66.00	70.10	4.10		0	J998160	1					
		0.00		####	J998161	1					BLANK
70.10	71.35	1.25		0	J998162	1					
71.35	72.24	0.89		0	J998163	1					
72.24	74.05	1.81		0	J998164	1					
74.05	77.52	3.47		0	J998165	1					
77.52	80.44	2.92		0	J998166	1					
80.44	82.69	2.25		0	J998167	1					
82.69	87.25	4.56		0	J998168	1					
		0.00		####	J998169	1					CDN-ME-2
87.25	87.79	0.54		0	J998170	1					
87.79	89.80	2.01		0	J998171	1					
		0.00		####							END BATCH 1 / START BATCH 2
89.80	92.05	2.25		0	J998172	2					
92.05	95.22	3.17		0	J998173	2					
95.22	100.00	4.78		0	J998174	2					
100.00	103.06	3.06		0	J998175	2					
103.06	103.66	0.60		0	J998176	2					
103.66	105.16	1.50		0	J998177	2					
105.16	107.27	2.11		0	J998178	2					
107.27	109.26	1.99		0	J998179	2					
109.26	114.05	4.79		0	J998180	2					
		0.00		####	J998181	2					BLANK
114.05	114.50	0.45		0	J998182	2					
114.50	117.50	3.00		0	J998183	2					
117.50	120.71	3.21		0	J998184	2					
120.71	125.24	4.53		0	J998185	2					
125.24	127.74	2.50		0	J998186	2					
		0.00		####	J998187	2					CDN-ME-2
127.74	129.24	1.50		0	J998188	2					
129.24	131.58	2.34		0	J998189	2					
131.58	134.50	2.92		0	J998190	2					
134.50	137.63	3.13		0	J998191	2					
137.63	142.15	4.52		0	J998192	2					

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
142.15	144.57	2.42		0	J998193	2					
144.57	148.31	3.74		0	J998194	2					
148.31	152.04	3.73		0	J998195	2					
					J998196	2					BLANK
152.04	156.04	4.00			J998197	2					
156.04	160.00	3.96			J998198	2					
160.00	161.90	1.90			J998199	2					
161.90	165.90	4.00			J998200	2					
165.90	169.53	3.63			J998201	2					
		0.00			J998202	2					CDN-ME-12
169.53	170.94	1.41			J998203	2					
170.94	173.94	3.00			J998204	2					
173.94	176.93	2.99			J998205	2					
176.93	178.00	1.07			J998206	2					
178.00	182.20	4.20			J998207	2					
		0.00									END BATCH 2 / START BATCH 3
182.20	185.32	3.12			J998208	3					
185.32	187.64	2.32			J998209	3					
187.64	191.64	4.00			J998210	3					
191.64	196.50	4.86			J998211	3					
196.50	201.50	5.00			J998212	3					
201.50	206.00	4.50			J998213	3					
		0.00			J998214	3					BLANK
206.00	209.00	3.00			J998215	3					
209.00	212.70	3.70			J998216	3					
212.70	215.70	3.00			J998217	3					
215.70	218.85	3.15			J998218	3					

DENSITY LOG

Hole: **DM-01-11**

Depth (m)	Unit	Texture	ALTERATION		MINERALS					Length (cm)	Diameter (cm)	Weight in Air (g)	Weight in Water (g)	DESCRIPTION	Density	Specific Gravity
			Type	Conc.	%	%	%	Other	%							
															#DIV/0!	#DIV/0!

BOX LOG

HOLE: DM-01-11

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)

Dan Man PROPERTY

	Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
ZONE: A			582853	6977754		139.6

SECTION:

HOLE: DM-02-11

CLAIM: DM 22

Contractor: Elite Diamond Drilling

Drill: JKS 300

Core size: BTW

Casing depth: 3.05 (m) in / out

Drilling dates: July 31 and August 1, 2011

Geology logged by: Heather Smith

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	0	45	compass	139.6	0	-38	Acid

TARGET:

SUMMARY

From (m)	To (m)	Interval	Unit	Comments

SAMPLES

Numbers:

Total:

Batch:

Date Sent:

Certificate:

COMMENTS

GEOLOGY LOG

HOLE: DM-02-11

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
0.00	4.57	4.57																									No recovery
4.57	5.00	0.43				SCH		BR																			Micaceous schist
								BK																			
5.00	8.45	3.45				SCH			FO	60									Ser	Bi	Chl						Moderately competent schist with pitted areas. Sericite alteration with no suphides and little to no quartz. Foliation at 60 degrees.
8.45	8.53	0.08				DYKE																					Extremely rubbly dyke zone, biotite-chlorite seam.
						UM																					
8.53	11.58	3.05				SCH																					Apparently poor recovery - could be the result of the seam above. This interval is actually competent…suspected driller error.
11.58	12.71	1.13				SCH													Chl								Increase in quartz. Weak chlorite alteration
12.71	14.70	1.99				DYKE	BK																				Mylonitic ultramafic. Boudinaged quartz augens. Weak potassic alteration, chlorite and sericite.
			13.00			UM	GR		FO	35																	Foliation
14.70	16.71	2.01				DYKE	BK												Chl	ser	act						Sericite-actinolite-epidote altered dyke, gougy and crumbly. Broken schist zone?
16.71	22.97	6.26				DYKE																					Speckled dyke, broken and blocky. Small < 1 cm quartz veins, boudinages - foliation parallel at 50 degrees.
			20.73			UM	GR		FO	50																	
22.97	26.66	3.69							FO	70																	Competent, blocky chlorite-epidote-actinolite-sericite altered dyke. Foliation at 70 degrees (24 m). Fractures are extermely blocky. Last 45 cm is oxidized, silicified dyke.
26.66	27.86	1.20				BRXX	BR						OXI														Oxidized quartz breccia zone with trace disseminated pyrite. Lower contact at 60 degrees.
						QZ	OR																				Last 40 cm is silicified breccia (white to grey quartz with abundant ankerite and black manganese/sulphide?)
							TN		CO	60																	
27.86	29.10	1.24				DYKE	GY		Fx	50			SIL	CLY					Ser								Sericite-clay altered quartz-feldspar porphyry dyke. Bleached and broken.
			28.00			QFP	WH		Cly	30																	Contact at 29.10 m is a 30 degree clay seam
29.10	30.65	1.55				CLY							OXI	CLY													60% clay-rubble with minor sericite altered mica. < 2 mm quartz eyes and pyrite cubes suspended in clay.
									CO	60																	
30.65	32.51	1.86				BRXX	TN						OXI						Ser	Ca							Breccia zone. 1 mm to 1 cm quartz eyes, disseminated and dendritic manganese.
			31.00	31.20		OXI	BR						SIL														Silicification increase.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
							YW																				Fractures are calcite lined at 50 degrees, disseminated black sulphides.
							WH																				
32.51	34.46	1.95				BRXX	YW						CLY						Qz	Kao							Bleached-kaolinite-ankerite clay cemented breccia. Relatively sharp contact into ankerite altered breccia (no clay cement). At 33.15 m.
							TN						ANK														
			34.40				BK		FO	40																	Broken. Blocky, relict gneiss, bleached with black managnese dentrites. Foliation parallel at 40 degrees.
34.46	37.77	3.31				GNE	YW		FX	30			SIL									PY	t				Silicified gneiss with stockwork fracturing. Rubble at 10 cm, clay cemented breccia zones with weak sericite alteration and trace disseminated pyrite.
						SIL	OR		FX	70	opp																
			37.77				RD		CO	30																	Fractures at 50 and 70 degrees
37.77	46.12	8.35				GNE	TN		FX	30			SIL						Ser	Ank	Mg	Py	t				Silicified quartz augen gneiss with trace disseminated pyrite, weak sericite and orange ankerite alteration. Fine manganese dendrites on fractures. Blocky with multiple fractures.
							BR		FX	70	opp								Qz	Fd							
			37.77	41.00	3.23		OR						SIL														Silicified with small blocky areas.
			41.00	42.06									CLY														Clay-rubble zone
			42.06	46.12									SIL						ser								Competent siliceous gneiss with weak sericite alteration. Foliation/banding at 50 degrees. < 1 cm foliation parallel quartz banding.
																											Contact 46.12 m, 70 fractures, end of quartz eyes.
46.12	48.28	2.16				SIL??			Fx	50			SIL	OXI													Oxidized, siliceous zone with no quartz eyes. Trace remnant textures. Stockwork fractures coated with limnoite and manganes coating. Clear white quartz veinlets offsetting limonitic veinlets (2 mm)
			46.50						CO	40									Ser			Py	t				Contact at 40 degrees
48.28	49.09	0.81				DYKE	GR	BK					LIST	ANK	SIL												Speckled ultramafic dyke with listwanite overprinting. Ankerite alteration. Lower contact is marked with a kaolinite - clay zone.
						Speckled																					
49.09	50.40	1.31				CLY		RD					CLY						Qz	ser	Mg						Clay, rubble zone with clasts of quartz-augen gneiss, manganese dendrites, weak sericite alteration.
								OR																			
								BR																			
50.40	52.48					DYKE							LIST						Ser								Listwanite altered, speckled ultramafic dyke with feldspars altering to orange?? Weak sericite alteration.
						UM	Speckled																				

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
52.48	54.41	1.93				BRXX	TN						SIL	CLY	BRXX				Qz	Ser	Mg						Tan-brown, silicified, partially bleached quartz breccia zone with micro quartz veinlets, trace disseminated pyrite, limonitic fractures and rims, rare stockwork fracturing with pale grey quartz (cross cutting).
							BR						OXI														
54.41	56.00	1.59				BRXX	BR						OXI						Qz								Rubble, oxidized zone with kaolinite-sericcite gouge rubble and clay zones.
							OR		CO	50																	Contact at 50 degrees
56.00	58.72	2.72				GNE	YW						OXI	CLY					Ser	Kao	Arg						Moderately silicified, rubble and clay zone. Protolith is a bleached gneiss with trace disseminated pyrite. Kaolinite alteration, sericite and argillite
58.72	60.35	1.63				DYKE	WH						SIL	BLE													Silicified quartz feldspar porphyry dykes. Orange, bleached gneiss with stock work ankerite lined fractures. Rare grey sulphides, kaolinite and trace sericite.
						QFP																					Contact at 60.35 m clay
60.35	61.55	1.20				BRXX		OR					OXI	ANK					Qz	ser							Oxidized quartz breccia with abundant ankerite-limonite coating. Quartz fragments < 6 mm. Last 15 cm, manganese fracture coating increases.
						OXI		BR					LIM														Contact at 61.55 m 40 degrees. 4 mm crystalized manganese bands.
61.55	66.66	5.11				DYKE		GY					BLE														Quartz-feldspar porphyry dyke, competent and rubbly. Feldspars < 2 mm - generally white or orange altered. Hairline fractures, limonitic veinlets, trace pyrite. Manganese dendrite.
						QFP		WH																			
			62.90	63.08	0.18		OR						CLY														Oxidized, clay on rubble of QFF
			66.30	66.66									SIL									PY	t				Silicified, 1% disseminated pyrite with stockwork limonite fracture coatings.
66.60	68.44	1.84				CLY			CO	40																	Clay zone with quartz suspended in gouge. Kaolinite, montomorillonite. Grey quartz eye neiss. Contact 40.
						GNE																					
68.44	72.74	4.30				DYKE		RD					SIL	LIST													Silicified, listwanite zone, mosaic, art-like swirly rock.
						LIST		OR	Ca	10																	
									CO	40																	
72.74	74.69	1.95				DYKE		BR					SIL	LIST					Ca								Silicified, listwanite altered dyke/schist?. Moderately to well foliated at 72.70 m (40 degrees). Intense calcite fracture filling veinlets. Last 10 cm has less listwanite overprinting.
						LIST		GR																			Contact at 60 degrees
								OR	CO	60																	

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other					Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
74.69	79.98	5.29				DYKE																					Speckled ultramafic dyke, calcite and listwanite alteration, veinlets. Chlorite-sericite-epidote alteration.
			78.00	78.18	0.18	Speckled																					Rubble
			78.64						FX	30	5/	1m															Contact at 20 degrees, into brown-chlorite-rich rubble.
79.98	84.18	4.20				DYKE							LIST	MYL													Mottled, mosaic listwanite altered schist. Mylonitic textures, siliceous.
			81.69	84.18	2.49	LIST			FX	60			SIL						Qz								Hairline fractured - complex fracturing. Disseminated pyrite.
			82.50						VN	60																	Dark grey banded quartz vein (60 degrees) offset by core-axix-parallel veinlet. Local brecciation.
																											Contact at 50 is ankerite-breccia seam
84.18	87.56	3.38				GNE		GY					SIL						Ser								Silicified quartz-eye gneiss, weakly sericite alteration. Weak purple (hematite?) overprint. Minor manganese dendrites. Last 20 cm is rubble.
								OR	FX	50																	Contact 35
								TN	FO	40																	
87.56	89.96	2.40				GNE		CR	FO	30			SIL						Mg	Ser							Silicified quartz-eye gneiss with disseminated pyrite and manganese fracture surfaces. Sericite alteration.
			87.70					YW	FX	40																	
									CO	40																	Contact at 40 degrees
89.96	91.95	1.99				GNE			FO	40			HEM	SIL					Ser	Qz		Py	t				Hematized, silicified quartz augen gneiss. Relict foliation at 40 degrees.
																											Rare disseminated pyrite. Sericite alteration, rare < 1 cm quartz vein, foliation parallel.
																											Contact at 50 degress
91.95	96.15	4.20				GNE		TN	FX	50			SIL	ANK	BLE				Ser	Qz							Bleached, siliceous, ankerite rich quartz augen gneiss. 2 mm limonite-ankerite coated fractures (70 degrees).
			94.80					OR	FO	50																	Fracture lined with sericite at 50.
			96.15					GY																			Contact and foliation at 50
96.15	101.43	5.28				GNE		TN					BLE	SIL					Ser			Py	t				Dominantly bleached-silicified quartz augen gneiss with zenoliths < 10 cm of sericite altered schist and ultramafic dyke (96.60 and 99.00 m)
			99.40					OR	FO	50																	1.5 cm quartz vein (fractured) at 40 degrees. Contact 50 degrees, foliation parallel.
								WH	CO	50																	
101.43	103.78	2.35				MIXED			FO	50									Ser	Mg							Ultramafic schist grading into medium grey quartz augen gneiss. Manganese dendrites on fractures.
			103.26	103.59	0.33	UM SCH																					Xenolith of orange-altered speckled dyke
			103.59	103.78	0.19				CO	70			ANK	BRXX													Ankerite altered breccia with < 3 cm pale grey quartz clasts.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							Photo	DETAILED DESCRIPTION
																	Other						Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
103.78	104.68	0.90				SCH/GNE		MAR					BK	90								Py	t				Hematite overprint on weakly sericte altered siliceous gneiss/shict. Trace disseminated pyrite. Black banding 90 degrees to core angle.
								PK					HEM						Ser								
								BK	CO	50																	
104.68	105.76	1.08				DYKE	UM	BK					HEM	CLY													First 12 cm is competent, hematite speckled dyke followed by clay-rich ultramafic dyke and potassic-hematite altered clay.
						GOUGE		PK																			
								GY																			
105.76	110.98	5.22				GNE							SIL	HEM	LIST				Ser	Epi	Qz						Siliceous-hematite altered gneiss. Minor quartz eyes, well foliated. Hematite-epidote-listwanite alteration bands. Sericite alteration.
			107.00						FO	40																	
			110.00						VN	40																	
									CO	50																	
110.98	111.57	0.59				DYKE		BK																			Speckled dyke with a lower contact of 50 degrees.
						Speckled		WH	CO	50																	
111.57	119.35	7.78				LIST		PK					BLE	HEM	SIL				Epi								Bleached, hematite-epidote (pale green to yellow alteration) - listwanite altered, silicified.
			113.70					GR	FO	40			LIST														1 cm band of epidote at 40 degrees
			118.26						FO	40																	nicely banded at 40 degrees
			118.90	119.10	0.20								POT	CLY													Potassic-red, clay altered zone with rubble
119.35	123.56	4.21				GNE		GY	FO	40			SIL	BLE									Py	t			Bleached, relatively un altered gneiss. Silicified grey, quartz augen gneiss. Weak sericite alteration.
			120.00					TN	FX	80																	Foliation
			122.48						CA	70									Ca				SP	t			2 mm calcite veinlet with lath-like black-jack sphalerite
									CO	80																	Contact is foliation parallel
123.56	125.61	2.05				GNE							HEM	SIL					Ser								Sericite altered hematized gneiss
			124.36						FO	40																	
			124.59	125.00	0.41				CO	30																	Xenolith of fine grained ultramafic dyke. Contact is definted by fracture at 30.
125.61	130.11	4.50				GNE-SCH		GY					SIL	KAO	CLY				Ser	Lim	Ank						Silicified, sericite altered gneiss-schist with some quartz eyes. Kaolinite-clay ateration at 127.41 cm for 60 cm
			128.40						VN	40																	
			129.25	129.55	0.30								HEM	SIL													
			129.55	130.11					CO	50																	Xenolith of ultramafic dyke with calcite blebs, < 1 cm, lower contact at 50 degrees.
130.11	139.60	9.49				GNE		GY					SIL						Ser	Arg							Siliceous, relatively unaltered schist-gneiss. Trace disseminated pyrite, rusty limonitic pits, weak sericite alteration, minor argillic alteration.
			134.00					WH	FO	40																	
								OR																			

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS							PHOTO	DETAILED DESCRIPTION
																	Other						Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)					Type	Intensity				Type	Intensity	Type	Intensity		
135.50	139.60		135.50			GNE		GY	FO	40			ANK														Foliation at 40 degrees, ankerite fractures, foliatior parellel.
			139.28	139.36	0.08			TN	CO	30	up/	down	ANK						Ser	Qz	Bi						Cream, yellow, orange quartz vein with seams of biotite. Fractured with ankerite bands. Upper contact is 30, lower contact is 30.
			139.36	139.60	0.24																						Speckled ultramafic dyke, broken. Hematite alteration on fractures.
				EOH																							

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: DM-02-11

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
		0.00		####		####				
		0.00		####		####				
		0.00		####		####				

SAMPLE LOG

HOLE: DM-02-11

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
4.57	8.45	3.88		0	J998219						
8.45	12.71	4.26		0	J998220						
12.71	14.70	1.99		0	J998221						
14.70	16.70	2.00		0	J998222						
16.70	22.97	6.27		0	J998223						
22.97	26.66	3.69		0	J998224						
		0.00		####	J998225						CDN-ME-2
26.66	27.86	1.20		0	J998226	3					
27.86	29.70	1.84		0	J998227	3					
29.10	30.65	1.55		0	J998228	3					
30.65	32.51	1.86		0	J998229	3					
		0.00		####	J998230	3					BLANK
32.51	34.46	1.95		0	J998231	3					
34.46	37.77	3.31		0	J998232	3					
37.77	41.77	4.00		0	J998233	3					
41.77	46.12	4.35		0	J998234	3					
46.12	48.28	2.16		0	J998235	3					
48.28	49.09	0.81		0	J998236	3					
49.09	50.40	1.31		0	J998237	3					
50.40	52.48	2.08		0	J998238	3					
52.48	54.41	1.93		0	J998239	3					
54.41	56.00	1.59		0	J998240	3					
56.00	58.72	2.72		0	J998241	3					
		0.00		####	J998242	3					CDN-ME-12
58.72	60.35	1.63		0	J998243	3					
60.35	61.55	1.20		0	J998244	4					
61.55	66.66	5.11		0	J998245	4					
66.66	68.44	1.78		0	J998246	4					
68.44	72.74	4.30		0	J998247	4					
72.74	74.69	1.95		0	J998248	4					
74.69	79.98	5.29		0	J998249	4					
79.98	84.18	4.20		0	J998250	4					
84.18	87.56	3.38		0	J998251	4					
		0.00		####	J998252	4					CDN-ME-12
87.56	89.96	2.40		0	J998253	4					
89.96	91.95	1.99		0	J998254	4					
91.95	96.15	4.20		0	J998255	4					
96.16	101.43	5.27		0	J998256	4					
101.43	103.78	2.35		0	J998257	4					
				0	J998258	4					BLANK
103.78	104.68	0.90		0	J998259	4					
104.68	105.76	1.08		0	J998260	4					
105.76	110.98	5.22		0	J998261	4					
110.98	111.57	0.59		0	J998262	4					
111.57	115.57	4.00		0	J998263	4					
115.57	119.35	3.78			J998264	4					
				0	J998265	4					CDN-ME-2
119.35	123.56	4.21		0	J998266	4					
123.56	125.61	2.05		0	J998267	4					
125.61	130.11	4.50		0	J998268	4					
130.11	135.11	5.00		0	J998269	4					
135.11	139.60	4.49		####	J998270	4					

DENSITY LOG

Hole: **DM-02-11**

Depth (m)	Unit	Texture	ALTERATION		MINERALS					Length (cm)	Diameter (cm)	Weight in Air (g)	Weight in Water (g)	DESCRIPTION	Density	Specific Gravity
			Type	Conc.	%	%	%	Other	%							
															#DIV/0!	#DIV/0!

BOX LOG

HOLE: DM-02-11

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)

Dan Man PROPERTY

	Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
ZONE:			582977	6977803		218.85

SECTION:

HOLE: DM-03-11

CLAIM:

Contractor:

Drill:

Core size:

Casing depth: (m) in / out

Drilling dates:

TARGET:

Geology logged by: Nicholas Joyce

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	180	-45	compass				

SUMMARY

From (m)	To (m)	Interval	Unit	Comments

SAMPLES

Numbers:

Total:

Batch:

Date Sent:

Certificate:

COMMENTS

Hole:___DM-01-11_____ Logger Name:_NICHOLAS JOYCE_____ Date:_JULY 28, 2011_____ Page _1_ of ____

GEOLOGY LOG

Sub-Interval	INTERVAL From (m)	INTERVAL To (m)	LITHOLOGY Unit	LITHOLOGY Modifier	LITHOLOGY Texture	ALTERATION			Oxidation	ALTERATION Other Type	ALTERATION Other Intensity	STRUC. Type	STRUC. Attitude (tca)		STRUC. Density (frequency/m	MINERALS			MINERALS Other Type	MINERALS Other Intensity	Photo	DETAILED DESCRIPTION
	0.00	20.17	SCH	OR	MD	OXY					l	FO	50			QZ	FD	SE				Silicified, potassically altered, oxidized feldpar - mica schist with liminitic pits and fracture infil, trace ankerite vienlets cross-cutting folliation, trace disseminated, oxidized pyrite and cryptic arsenopyrite. Strong clay alteration throughout. Blocky to rubble. Manganese dendrites on fracture surfaces.
						LIM					l					AK	MN	MUS	PY	t		
						POT					s											
						SIL					l											
						CLAY					l											0-5.28m, rubble.
																						5.28-5.38m, intensely clay-altered orange rock.
												VN	85									6.17m, 3cm white quartz vein
												VN	85									6.56m, 3cm white quartz vein
												VN	55									7.10m, 10cm white quartz vein
												FX	20		12/50cm							7.90m, Ankeritic parallel microfracture infil.
												FX	45									8.00m, Drusy limonitic quartz fracture with proximal ankerite veinlet.
			ZENO	GN-OR	DK	OXY					l					CL	BI	HB				8.77m, Intensely oxidized, moderately clay-altered, well folliated mafic schist. 10cm UM zenolith? Blocky
						CLAY					m											
																						9.87m, 10cm interval of increased silicification. Limonitic fracture infil, minor ankeritic vienlets. Manganese on fracture surfaces. Competent.
						CLAY					l	BXX			m							10.34m, 10cm clay seam. Relict quartz flood. Suspended in clay matrix. Mildly brecciated.
						LIM					S											11.00-12.24m, interval of increased silicification. No relict textures. Stockwork limonite fracture infill with 0.2cm proximal limonitic staining. More competent interval.
						SIL					l											
																MN						11.58-12.24m, minor blebs and fracture infill of fine-grained black mineral. Manganese? Blocky.
						CLAY					l					KAO						12.66-16.63m, Oxidized orange clay with minor kaolinite and minor suspended lithic fragments. One small lithic fragment closely resembles feldpar porphyry dyke rock. Upper contact near 40 degrees.
												CN	40									
						CLAY					s											16.63-20.17m, Rubble. Mildly brecciated silicified schist in clay matrix. Strong clay alteration throughout.
	20.17	23.58	DYKE	GN	LT	CLAY					m	BXX				FD						Feldpar Porphyry Dyke. Blocky to rubble. Angular, sub-rectangular, 0.1-0.2cm white feldspar phenocrysts set in pale-green groundmass. Mild clay-matrix brecciation.
			POR																			
	23.58	23.68	Trans	OR-BG	MD	CLAY					l											23.68m, 10cm orange-beige clay seam marking transition from Feldspar Porphyry Dyke rubble to GNE
	23.68	30.09	GNE	OR-BG	MD	OXY					l					QZ	FD	SE				Silicified, potassically altered, oxidized feldpar-augen, quartz-eyelet gneiss with minor liminitic pits and strong fracture infil, trace ankerite vienlets and trace disseminated, oxidized pyrite. Minor mafic minerals. Moderate clay alteration throughout. Blocky to rubble. Minor manganese dendrites on fracture surfaces. Mineralogically similar to previous schistose unit.
						LIM					l					AK	MN	MUS	PY	t		
						POT					s					CL	BI	HB				
						SIL					l											
						CLAY					l											27.02-27.20m, orange clay-rich rubble.
																						27.30-30.09m, Gniessic rubble.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

Hole: DM-01-11 Name: NICHOLAS JOYCE Page _1_ of ___

From (m)	To (m)	Interval (m)	Recovery (m)	RQD (m)	Munsell Colour	Hardness	Weathering	Comments
0	5.49	1.26	0.45	0.36				
5.49	8.53	3.05	0.10	0.03				
8.53	11.58	3.02	0.79	0.26				
11.58	14.63	3.16	1.80	0.57				
14.63	17.69	3.10	2.41	0.78				
17.69	20.73	2.24	0.71	0.32				
20.73	23.77	2.97	0.51	0.17				
23.77	26.82	3.04	1.19	0.39				
26.82	29.87	3.22	1.18	0.37				
29.87	32.92	3.16	2.30	0.73				
32.92	35.97	3.03	2.31	0.76				
35.97	39.01	3.21	1.40	0.44				
39.01	42.06	3.16	0.74	0.23				
42.06	45.11	3.26	0.26	0.08				
45.11	48.16	3.24	0.69	0.21				
48.16	51.21	3.15	0.11	0.03				
51.21	54.25	3.07	2.42	0.79				
54.25	57.3	3.15	1.95	0.62				
57.3	60.35	2.95	2.31	0.78				
60.35	63.4	3.02	0.66	0.22				
63.4	66.45	3.16	2.86	0.91				
66.45	69.49	3.12	2.15	0.69				
69.49	72.54	3.07	2.20	0.72				
72.54	75.59	3.15	2.33	0.74				
75.59	79.64	2.84	1.74	0.61				
79.64	81.69	2.88	2.34	0.81				
81.69	84.73	3.16	2.73	0.86				
84.73	87.78	3.20	2.44	0.76				
87.78	90.83	3.01	2.50	0.83				
90.83	93.88	3.04	2.12	0.70				
93.88	96.93	2.95	1.75	0.59				
96.93	99.97	3.09	2.22	0.72				
99.97	103.02	3.16	2.75	0.87				
103.02	106.07	3.04	2.24	0.74				

GEOTECHNICAL LOG

106.07	109.12	3.06	1.13	0.37				
109.12	112.17	3.11	1.92	0.62				
112.17	115.21	3.16	2.20	0.70				
115.21	118.26	2.73	0.92	0.34				
118.26	121.31	3.33	2.70	0.81				
121.31	124.36	2.78	2.25	0.81				
124.36	127.41	3.22	2.86	0.89				
127.41	130.45	3.17	1.41	0.44				
130.45	133.5	3.06	2.37	0.77				
133.5	136.55	???????		#VALUE!				
136.55	139.59	3.04	2.60	0.86				
139.59	142.65	3.05	2.68	0.88				
142.65	145.69	3.04	2.46	0.81				
145.69	148.74	3.05	2.81	0.92				
148.74	151.79	3.03	2.15	0.71				
151.79	154.84	3.05	1.91	0.63				
154.84	157.89	2.88	2.25	0.78				
157.89	160.93	3.16	2.35	0.74				
160.93	163.98	2.92	1.00	0.34				
163.98	167.03	3.16	2.94	0.93				
167.03	170.08	3.05	2.31	0.76				
170.08	173.13	3.00	2.52	0.84				
173.13	176.17	3.12	2.37	0.76				
176.17	179.22	3.05	2.64	0.87				
179.22	182.27	3.13	1.92	0.61				
182.27	185.32	3.21	2.11	0.66				
185.32	188.37	2.71	1.70	0.63				
188.37	191.41	2.73	2.32	0.85				
191.41	194.46	3.54	3.43	0.97				
194.46	197.51	3.00	2.76	0.92				
197.51	200.56	3.11	2.11	0.68				
200.56	203.61	3.14	1.18	0.38				
203.61	206.65	2.75	2.04	0.74				
206.65	209.70	3.33	2.75	0.83				
209.70	212.75	3.11	1.95	0.63				
212.75	215.75			#DIV/0!				
215.75	218.85			#DIV/0!				

GEOTECHNICAL LOG

Hole:_____ **Name:**_____ **Page ___ of ___**

From (m)	To (m)	Interval (m)	Recovery (m)	Sample Number	Batch	Comments

Hole:_____ **Date:**_____ **Page:**_____ **of** _____

DENSITY LOG

Depth (m)	Unit	Texture	ALTERATION		MINERALS					Length (cm)	Diameter (cm)	Weight in Air (g)	Weight in Water (g)	DESCRIPTION
			Type	Conc.	%	%	%	Other	%					

ole:_____ Page ____ of ___

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled	Box #	From (m)	To (m)	Metal tag made	Metal tag stapled
1	0	9.60			24	130.5	135.44		
2	9.60	14.91			25	135.44	140.65		
3	14.91	21.55			26	140.65	146.12		
4	21.55	27.28			27	146.12	151.79		
5	27.28	32.78			28	151.79	157.53		
6	32.78	38.39			29	157.53	162.92		
7	38.39	44.20			30	162.92	168.51		
8	44.20	49.54			31	168.51	173.85		
9	49.54	55.09			32	173.85	178.93		
10	55.09	60.35			33	178.93	183.78		
11	60.35	66.00			34	183.78	188.63		
12	66.00	70.82			35	188.63	193.95		
13	70.82	76.07			36	193.95	198.68		
14	76.07	81.69			37	198.68	203.11		
15	81.69	87.06			38	203.11	208.35		
16	87.06	92.36			39	208.35	213.44		
17	92.36	98.22			40				
18	98.22	103.90			41				
19	103.90	109.52							
20	109.52	115.21							
21	115.21	120.36							
22	120.36	125.68							
23	125.68	130.45							

BOX LOG

Dan Man PROPERTY

	Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
ZONE:			581145	6977110		170.08

SECTION:

HOLE: DM-04-11

CLAIM:

Contractor:

Drill:

Core size:

Casing depth: (m) in / out

Drilling dates:

Geology logged by:

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	0	-45	compass			-38	ACID

TARGET:

SUMMARY

From (m)	To (m)	Interval	Unit	Comments

SAMPLES

Numbers:

Total:

Batch:

Date Sent:

Certificate:

COMMENTS

Hole:___DM-04-11_____ Logger Name:_NICHOLAS JOYCE_____ Date:_August 8, 2011_____ Page _1_ of ____

GEOLOGY LOG

Sub-Interval	INTERVAL From (m)	INTERVAL To (m)	LITHOLOGY Unit	LITHOLOGY Modifier	LITHOLOGY Texture	ALTERATION			Oxidation	ALTERATION Other Type	ALTERATION Other Intensity	STRUC. Type	STRUC. Attitude (tca)		STRUC. Density (frequency/m)	MINERALS			MINERALS Other Type	MINERALS Other Intensity	Photo	DETAILED DESCRIPTION
	0.00	7.02	GNE	Y-OR-B	MD	BLE					m	FO	45			QZ	FD	MUS				Silicified, moderately potassically altered, <0.2cm feldpar-augen, quartz-eyelet gneiss with minor limonitic fracture infil, trace limonite vienlets and minor metalic-looking mica. Minor mafic minerals. Blocky patches.
						LIM					w					CL						
						POT					m											
						SIL					s											
						HEM					t											
																						0-4.20m, blocky rubble. Bleached.
						POT					m											4.20-5.66m, moderate potassic alteration. Weakly limonitic fracture surfaces.
						LIM					s											5.66-5.75m, strongly limonitic, moderately clay altered interval.
						OXY					s					CL						5.75-5.90m, oxidized mafic rubble. Minor dyke? Zenolith?
						HEM					s	FO	45			HE						6.61-7.02m, strongly banded hematitic alteration. Very well folliated. Hematitic microveinlets cross-cutting folliation at 20 degrees.
	7.02	7.32	MAF	OR-GN		OXY						CN	45			CL	BI	LIM				Oxidized ultramafic sill. Folliation parallel upper contact. Minor coffee-stain type limonitic veinlets.
			SILL																			
	7.32	106.70	GNE	Y-OR-B	MD-LT	BLE					m	FO	45			QZ	FD	MUS				Silicified, moderately potassically altered, <0.2cm feldpar-augen, quartz-eyelet gneiss with minor liminitic fracture infil, trace limonite vienlets and minor metalic-looking mica. Minor mafic minerals. Blocky and clay-rich patches.
						LIM					w					CL						
						POT					m											
						SIL					s											
						HEM					t											
																						7.32m, 3cm orange clay seam
												VT	0-30									7.50-8.35m, trace hematite alteration, minor limonite veinlets.
												CN	45									8.62m, 3cm green fine-grained mafic seam containing 0.2cm feldspar phenocrysts.
												VT	20									8.64-8.90m, drusy, bleached quartz flood with increased mafic components in and around the flood, all cut by 20 degree limonitic veinlets.
						CLAY	LIM				s	VT								BlkSf?		12.39-13.02m, Orange, blocky, clay-rich interval with minor brecciated quartz flooding, stockwork limonite fractures, minor ankerite veinlets, trace black sulfide in ankerite veinlets and minor manganese on fracture surfaces.
						POT					s											13.02-13.95m, blocky interval with moderate limonitic fractures, trace finegrained black sulfide microveinlets, minor clay alteration and strong potassic alteration.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

																QZ					13.95m, 10cm quartz flood, almost a crackle breccia due to pervasive limonitic fractures.
												FX	45								14.05-16.90m, weakly hematitic, limonitic GNE. Pervasive black microfractures and limonitic fractures cross-cutting folliation at 45 degrees.
						LIM					s										18.00m, strong limonitie veining/flooding. 15% over 10cm.
						CLAY					s										18.35-18.71m, strong clay alteration. Silica-poor, metalic-mica rich.
						HEM					s										18.71-21.10m, strongly hematitic, pervasive hematite-filled microfractures. Strong presence of silvery-mica. Trace limonite near end of interval.
												VT	10								23.36m, hematite veinlet with proximal dendritic limonite staining.
																QZ					23.70m, 3cm Quartz flood.
						LI|M					w	FO	50								23.70-32.36m
																					26.00-26.49m, oxidized rubble. Manganese on fracture surfaces.
												VT				HEM					29.60m, minor irregular red hematite veinlets over 5cm.
																					32.40m, increase in silvery-mica component over 20cm.
						CLAY					w										32.98-33.51m, rubble. Weak clay alteration.
												DRU		7/40cm							34.37-34.84m, minor quartz flooding. 1cm druses.
																					35.69-36.50m, Blocky patch.
						POT					s										36.90-37.15m, Blocky, potasically altered GNE below 2cm quartz flood.
																					38.34m, 1cm Drusy quartz band.
																					38.82-38.96m, drusy banding with trace limonitic staining and minor quartz flooding.
												VN	40								39.01-39.25m, rubble patch ending in banded quartz flood.
												VN	40								39.25-40.10m, 1-2cm banded quartz flooding, 12 bands/ 85cm. Well silicified, trace limonite.
												BND	65								40.42m, dark grey unsilicified, silvery-mica-rich 5cm band at 65 degrees.
												BND	65								40.62m, dark grey unsilicified, silvery-mica-rich 5cm band at 65 degrees.
												VN	40								41.26m, 1-4cm wide bull quartz flood. Lower contact at 40 degrees.
												BND	65								41.46m, dark grey unsilicified, silvery-mica-rich 5cm band at 65 degrees.
						HEM					m										42.25-42.32m, moderate hematitic overprinting.
						HEM					m										42.53-42.58m, moderate hematitic overprinting.
						HEM					m										42.73-42.78m, moderate hematitic overprinting.
						HEM					m										42.88-42.92m, moderate hematitic overprinting with 1cm quartz flood at upper contact.
						HEM					m	VT	25								43.93-45.67m, moderate hematitic overprinting with 25 degree hematite veinlet cluster at 44.54m. and 1cm limonitc band at 45.38m.
						HEM					m	FX	20								46.09-46.22m, moderate hematitic overprinting ending on 20 degree limonitic fracture.
						HEM					m										46.50-46.54m, moderate hematitic overprinting.
												FO	55								46.95-47.13m, mottled quartz-feldspar flood with minor silvery-micas and trace limonite.
												VT	15								47.46-47.56m, mottled quartz-feldspar flood with minor silvery-micas and strong limonite veinlets. Soft black earthy mineral on fracture surfaces and moderate alteration of feldspar phenocrysts to kaolinite.
																					48.06m, drusy quartz flood over 10cm. Trace limonite.
						LIM					l	BXX				QZ					48.32-48.54m, drusy crackle brecciated quartz flood. Intensely limonitic.
						LIM					s										48.54-51.46m, strong limonitic overprinting. Moderate stockwork limonitic fractures. Minor ankerite veinlets.
						LIM					m										51.86-53.45m, moderate limonitic overprinting with moderately pervasive limonitic microfractures and veinlets. Manganese dendrites on fractures surfaces. Trace rusty disseminated pyrite cubes, <0.2cm.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

						LIM					m										53.45-54.29m, moderate limonitic overprinting with minor limonitic microfractures and veinlets. Manganese dendrites on fractures surfaces. Trace rusty disseminated pyrite cubes, <0.2cm. Mild hematitic overprinting.
						HEM					m										
																					54.29-55.54m, moderate limonitic overprinting with moderately pervasive limonitic microfractures and veinlets. Manganese dendrites on fractures surfaces. Trace rusty disseminated pyrite cubes, <0.2cm.
												VT	35								54.66m, 0.3cm limonite veinlet with proximal stockwork limonitic fractures over 15cm.
						HEM					m										55.54-59.30m, moderately hematitic overprinting with minor limonitic fractures.
						LIM					l										59.30-60.25m, dominante limonitic overprinting with moderate hemetitic alteration. Relict textures obscured. Intense limonite pitting. Trace dull black mineral with white streak.
						HEM					m										
						HEM					s	VN	45								60.25-61.00m, strong hematitic overprinting. Minor 1-2cm quartz veins.
						HEM					l	VT	20								61.00-63.50m, Intense hematitic overprinting. Pervasive hematite veinlets, mostly at 20 degrees and stockwork.
																					63.50-66.45m, minor limonite fractures. Quite vuggy with 0.2cm vugs.
						BLE					m	VT	20								65.72m, 0.3cm limonite veinlet at upper end of 15cm bleached rubble patch.
						BLE					m	VT	20								66.45m, 0.1cm limonite veinlet bordering 3cm band of bleached, vuggy, strongly limonitic rock.
						LIM					s										
												VT				HE					66.91m, stockwork hematite veinlets over 8cm.
												FX	20								67.02m, moderate limonite staining over 10cm followed by moderate limonite coating on 20 degree fracture surfaces over the next 1m.
																					69.51m, 1cm biotite seam. Local increase in limonitic microfractures and drusy quartz at edges.
						HEM					m					Bi	ery mica				69.80-70.25m, minor hematitic and moderate limonitic overprinting. Slight increase in mafic mineral component.
						LIM					m										
						LIM					m										70.30-71.05m, strong potassic and moderate limonitic alteration.
						POT					s										
																					71.05-73.77m, 25% silvery mica. Trace limonite microveinlets.
												VT	15								71.60m, 0.1-0.2cm limonite veinlet.
						LIM					s	FX	45								73.77-75.61m, strongly limonitic fractures. Crackle brecciation of GNE. No increase in silicification. Mild clay alteration. Black mineral on 45 degree fracture surfaces. Manganese?
						CLY					m										
						POT					s	VN	45								78.44m, 2cm quartz vein with proximal strong potassic alteration cut by 0.2cm quartz veinlet.
												VT	10								
																					78.64m, 6cm quartz flood with limonitic druses.
												VT	65			SE	LIM				81.40m, strong limonite veinlets over 10cm with minor sericite seam, both at 65 degrees.
												VN	45								81.84m, 1-2cm bull quartz flood at 45 degrees.
						BLE					m					QZ					83.05-83.86m, trace limonite fractures, manganese on fracture surfaces, moderately bleached with minor hairline fractures infilled with clear-grey quartz.
																					84.65-85.60m, rubble. Trace clay alteration.
																					85.60-88.44m, blocky interval.
																					87.75-88.44m, 10% 1-5cm mafic seams of moderately oxidized biotite. Contacts at 55 degrees.
						BLE					s										90.83-95.05m, Strongly bleached and silicified with minor cross-cutting limonitic microfractures and trace dark hairline fractures.
																					93.08m, 4cm drusy quartz flood.
						CLY					m										95.02-95.60m, blocky, moderately limonitic and clay altered rock.
						LIM					m										

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

						POT				s										96.00-96.93m, strong potassic alteration and minor clay alteration to blocky rock.
						CLAY				w										
						BLE				s					LIM					96.93-98.49m, minor clusters of pitted limonite. Strongly bleached and silicified.
						CLAY				I	VN									98.49-99.50m, intense clay (potassic-argillic) alteration with coffee stain type limonite veining. Beige-orange. Intensely limonitic.
						LIM				I										
						BLE				s	VT									99.50-104.20m, Bleached, silicified with grey-quartz. Strongly limonitic veinlets. Trace ankerite veinlets. Trace clear silica veinlets.
																				102.75m, minor disseminated black mineral. Manganese? Minor quartz flooding with strong blebby limonite over 15cm.
											VT	45								104.20-105.50m, moderately bleached, silicified with grey-quartz. Trace 45 degree ankerite veinlets. Trace clear silica veinlets. Strong dark grey mica. Sericite?
																				105.50-105.73m, beige, silicified, blocky interval.
											FX	30								105.73-106.70m, moderately bleached, silicified with grey-quartz. Trace 45 degree ankerite veinlets. Trace limonitic fractures at 30 degrees. Trace clear silica veinlets. Strong dark grey mica. Sericite?
	106.70	113.42	MAF			OXY				s	CN	35			BI	CL	HB			Biotite-Chlorite-Feldspar sill. Phaneritic texture, 0.2-0.3cm grains. Schistose. 65% Mafic.
						LIM				s	CN	55			FD					Intensely limonitic, oxidized, moderate potassic-argillic alteration of feldspars.
	113.42	118.65	GNE	Y-OR-B	MD-LT	BLE				m					QZ	FD	MUS			Silicified, moderately potassically altered, <0.2cm feldpar-augen, quartz-eyelet gneiss with minor liminitic fracture infil, trace limonite vienlets and minor metalic-looking mica. Blocky and clay-rich patches.
						POT				m					CL					
						SIL				s										
						Lim				m										113.42-114.31m, blocky interval with minor limonite. Rounded 0.2cm quartz clasts in rubble held in black-earth mineral matrix at 116.00m.
						POT				I										116.45-118.26m, Intense potassically altered, strongly limonitic rubble.
																				118.26-118.65m, strongly bleached, potassically altered, blocky interval with weakly pitted limonite.
	118.65	118.90	MAF			OXY				s	CN	55			BI	CL	HB			Biotite-Chlorite-Feldspar sill. Phaneritic texture, 0.2-0.3cm grains. Schistose. 65% Mafic.
						LIM				I					FD					Intensely limonitic, oxidized, moderate potassic-argillic alteration of feldspars. Lower contact obscured by intensely limonitic 10cm crackle-brecciated quartz flood.
	118.90	119.00	GNE	Y-OR-B	MD-LT	BLE				m					QZ	FD	MUS			Silicified, moderately potassically altered, <0.2cm feldpar-augen, quartz-eyelet gneiss with minor liminitic fracture infil, trace limonite vienlets and minor metalic-looking mica.
						POT				m					CL					
						SIL				s										
	119.00	121.82	MAF			OXY				s	CN	55			BI	CL	HB			Biotite-Chlorite-Feldspar sill. Phaneritic texture, 0.2-0.3cm grains. Schistose. 65% Mafic.
						LIM				s	VT	10, 35			FD	LIST	AK			Strongly limonitic, oxidized, moderate potassic-argillic alteration of feldspars. 10% Listwanite alteration associated with ankerite veinlets running at 10 and 35 degrees. Lower contact obscured by intensely limonitic 10cm crackle-brecciated quartz flood.
	121.82	125.19	GNE	Y-OR-B	MD-LT	BLE				m					QZ	FD	MUS			Silicified, moderately potassically altered, <0.2cm feldpar-augen, quartz-eyelet gneiss with minor liminitic fracture infil, trace limonite vienlets and minor metalic-looking mica.
						POT				m					CL					

						SIL					I									
						HEM					m									121.82-122.10m, moderately hematitic, intensely silicified, mottled texture.
																				122.10-122.60m, minor potassic alteration, intensely silicified, greyish, mottled texture.
						HEM					w									122.60-122.75m, mottled quartz flood and locally intense clay alteration. Weakly hematitic. Encompases 0.3cm biotite seam.
						SER					s									122.75-125.19m, moderately limonitic minor quartz flooding. Strongly sericitic. Limonite pitting.
	125.19	127.41	MAF			OXY					m	CN	45			BI	CL	HB		Biotite-Chlorite-Feldspar sill. Phaneritic texture, 0.2-0.3cm grains. Schistose. 65% Mafic. Interbedded with sericite-altered mafics.
												VT	35			FD	LIST	AK		Moderately oxidized, moderate potassic-argillic alteration of feldspars. 10% Listwanite alteration associated with ankerite veinlets running at 35 degrees. Contains 20cm subinterval of vuggy, limonitic pitted, intensely sericitic alteration with potassic alteration of fledspars at 126.16m. A similar Sericitic alteration occurs over the last 40cm of the interval.
	127.41	132.97	GNE	Y-OR-B	MD-LT	BLE					m					QZ	FD	MUS		Silicified, moderately potassically altered, <0.2cm feldpar-augen, quartz-eyelet gneiss with minor liminitic fracture infil, trace limonite vienlets and minor metalic-looking mica.
						POT					m					CL				
						SIL					I									
																				127.41-127.53m, limonite crackle brecciated quartz flood.
												VT	45							127.53-130.45m, minor 0.1-1cm quartz veinlets and minor drusy limonitic vugs.
												VT	30							129.60m, crisscrossing limonite with minor black sulfide microveinlets crosscut by red hematite veinlets at 30 degrees.
																				130.45-132.81m, increase in silvery-mica component. Less strongly silicified.
																				132.81-132.97m, weakly hematitic microfractures and overprinting.
	132.97	133.82	MAF			OXY					m	CN	55			BI	CL	HB		Biotite-Chlorite-Feldspar sill. Phaneritic texture, 0.2-0.3cm grains. Schistose. 65% Mafic. Interbedded with sericite-altered mafics.
																FD	LIST	AK		
																				132.97-133.49m, Mafic sill.
																				133.49-133.82m, Sericitic alteration.
	133.82	133.96	GNE	Y-OR-B	MD-LT	BLE					m					QZ	FD	MUS		Silicified, moderately hematitic, <0.2cm feldpar-augen, quartz-eyelet gneiss with minor liminitic fracture infil, trace limonite vienlets and minor metalic-looking mica.
						POT					m					CL				
						SIL					I									
						HEM					m									
	133.96	134.30	MAF			OXY					m	CN	55			BI	CL	HB		Biotite-Chlorite-Feldspar sill. Phaneritic texture, 0.2-0.3cm grains. Schistose. 65% Mafic. Interbedded with sericite-altered mafics.
																FD	LIST	AK		
																				133.96-134.14m, Mafic sill.
																				134.14-134.21m, Sericitic alteration.
																				134.21-134.30m, Mafic sill ending in weakly limonitic 1cm quartz vein.
	134.30	136.14	GNE	Y-OR-B	MD-LT	BLE					m					QZ	FD	MUS		Silicified, moderately hematitic, <0.2cm feldpar-augen, quartz-eyelet gneiss with minor liminitic fracture infil, trace limonite vienlets and minor metalic-looking mica.
						POT					m					CL				Increase in alterations at start and end of interval at contact with mafic units.
						SIL					I									
						HEM					m									
	136.14	137.64	MAF			OXY					m	CN	55			BI	CL	HB		Biotite-Chlorite-Feldspar sill. Phaneritic texture, 0.2-0.3cm grains. Schistose. 65% Mafic. Interbedded with sericite-altered mafics.

a = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20% (write % for >20%)

																FD	LIST	AK			
																					136.14-136.97m, Mafic sill. Increase in oxidation towards end of interval.
																					136.97-137.07m, intensely silicified rock with crosscutting limonitic fractures.
																					137.07-137.23m, Mafic sill. Blocky.
																					137.23-137.52m, strongly limonitic Sericite alteration.
																					137.52-137.64m, Intensely oxidized mafic sill.
	137.64	137.83	GNE	GY-BG	MD-LT	BLE					m					QZ	FD	MUS			Strongly silicified, potassically altered <0.2cm feldpar-augen, quartz-eyelet gneiss with minor liminitic fracture infil, trace limonite vienlets and minor metalic-looking mica.
						POT					m					CL					
						SIL					s										
	137.83	138.80	MAF			OXY					m	CN	55			BI	CL	HB			Biotite-Chlorite-Feldspar sill. Phaneritic texture, 0.2-0.3cm grains. Schistose. 65% Mafic. Interbedded with sericite-altered mafics.
																FD	LIST	AK			
																					137.83-138.12m, Mafic sill with 2cm limonite-crackle brecciated quartz flood.
																					138.12-138.80m, sericitic rubble.
	138.80	140.84	GNE	GY-BG	MD-LT	BLE					m	FO	55			QZ	FD	MUS			Moderately silicified, potassically altered <0.2cm feldpar-augen, quartz-eyelet gneiss with minor liminitic fracture infil, trace limonite vienlets and minor metalic-looking mica.
						SER					m					SER					trace rusted pyrite cubes. Cryptic manganese in fractures. Minor quartz flooding.
						SIL					m										
	140.84	141.09	MAF			OXY					w	CN	55			BI	CL	HB			Biotite-Chlorite-Feldspar sill. Phaneritic texture, 0.2-0.3cm grains. Schistose. 65% Mafic.
						POT					m					FD					moderate potassic alteration of feldspars gives the sill a pitted texture.
	141.09	145.36	GNE	GY-BG	MD	BLE					m	FO	55			QZ	FD	MUS			Moderately silicified, potassically altered <0.2cm feldpar-augen, quartz-eyelet gneiss with minor liminitic fracture infil, trace limonite vienlets and minor metalic-looking mica.
						LIM					w										141.09-141.71m, weakly limonitic microfractures. Trace manganese. Moderately hematitic.
						SER					m-I										141.71-145.36m, moderate sericite alteration. Increased alteration at ends of interval. Compelte sericite alteration with clay altered feldspars over 15cm at 141.84m.
	145.36	145.99	MAF	N-OR-B	DK	OXY				I						CL	BI	CA			Intensely oxidized mafic intrusion bound by crackly brecciated limonitic quartz floods. Moderate listwanite alteration manifested in carbonate-rich microveinlets and blebs.
						LIST				m						FD					
	145.99	147.69	GNE	GY-BG	MD	BLE					m	FO	55			QZ	FD	MUS			145.99-146.19m, Moderately silicified, potassically altered <0.2cm feldpar-augen, quartz-eyelet gneiss. Intense sericite alteration. Strongly limonitic. Interval ends in 3x5cm soft-milky-green mineral augen with trace hematite and manganese.
						SER					I					SER					
						SIL					I										146.19-147.69m, Intensely silicified, strongly limonitic with moderate sericite banding. Trace ankerite veinlets and minor quartz flooding.
	147.69	147.86	MAF	N-OR-B	DK	OXY				I						CL	BI	CA			Intensely oxidized mafic intrusion. Blocky.
																FD					
	147.86	148.17	GNE	GY-RD	MD	SILL					I	FO	55			QZ	FD	MUS			Intensely silicified, <0.2cm feldpar-augen, quartz-eyelet gneiss. Moderately hematitic and strongly limonitic overprinting.
						HEM					m										
						LIM					s										
	148.17	148.44	MAF	N-OR-B	DK	OXY				s		CN	55			CL	BI	CA			Strongly oxidized mafic intrusion. Minor listwanite alteration.

						LIST				m						FD					
	148.44	149.12	GNE	GY	MD	SILL					I	FO	55			QZ	FD	MUS			Intensely silicified, <0.2cm feldpar-augen, quartz-eyelet gneiss. Strong limonitic fractures at 55 degrees crosscutting folliation. Minor sericite seams. Trace ankerite veinlets. Minor coffee-stain type limonite veinlets.
						SER					m	FX	55								
						LIM					s										
	149.12	149.23	MAF	N-OR-B	DK	OXY				s		CN	60			CL	BI	CA			Strongly oxidized mafic intrusion. Strong listwanite alteration. Limonitic pitting. Lower contact obscured by 1cm crackle brecciated quartz vein.
						LIST				s		VN				FD	QZ				
	149.23	149.96	GNE	GY	MD	SILL					I	FO	60			QZ	FD	MUS			Intensely silicified, <0.2cm feldpar-augen, quartz-eyelet gneiss. Strong limonitic fractures at 55 degrees crosscutting folliation. Minor sericite seams. Trace ankerite veinlets. Minor coffee-stain type limonite veinlets.
						SER					m	FX	55								
						LIM					s										
	149.96	150.64	MAF	N-OR-B	DK	OXY				s		CN	60			CL	BI	CA			Strongly oxidized mafic intrusion. Strong listwanite alteration. Limonitic pitting. Lower contact obscured by 1cm crackle brecciated quartz vein.
						LIST				s		VN				FD	QZ				
	150.64	151.24	GNE	GY	MD	SILL					I	FO	65			QZ	FD	MUS			Intensely silicified, <0.2cm feldpar-augen, quartz-eyelet gneiss. Minor sericite seams. Moderate limonitic fractures. Strongly hematitic.
						HEM					s										
						LIM					s										
	151.24	151.32	MAF	N-OR-B	DK	OXY				s		CN	65			CL	BI	CA			Strongly oxidized mafic intrusion.
												VN				FD	QZ				
	151.32	151.66	GNE	GY	MD	SILL					I	FO	65			QZ	FD	MUS			Intensely silicified, <0.2cm feldpar-augen, quartz-eyelet gneiss. Moderate limonitic fractures. Blocky.
						LIM					s										
	151.66	151.83	MAF	N-OR-B	DK	OXY				s		CN	65			CL	BI	CA			Strongly oxidized mafic intrusion.
												VN				FD	QZ				
START ZONE?																					
	151.83	153.53	GNE	GY-OR	MD	SER				s						QZ	FD	SER			Highly fractured, almost stockwork. Sericitic seams, manganese on fracture surfaces. Trace clay seams. Trace quartz veinlets. Cryptic rusted pyrite. Intensely altered, fractured at 152.15m.
						BLE				s						LIM	PY				
						SIL				s											
	153.53	154.93	MAF	L-GN-B	DK	LIST				s						Bi	HB	SER			Fine-grained mafic sill. Patchy limonitic staining, most intense at either end of the interval. Listwanite microvienlets. Trace disseminated pyrite, unoxidized.
						SER				I						CA	HE				
						LIM				s											
	154.93	155.61	GNE	GY-OR	MD	SER				s						QZ	FD	SER			Stockwork limonitic fractures. Banded sericite. Trace disseminated rusty pyrite cubes. Well folliated. Gniessic fabric obscured by intense silicification.
						BLE				s						LIM	PY				
						SIL				s											
						POT				s											
	155.61	155.86	MAF	L-GN-B	DK	SER				I						Bi	HB	SER			Mafic sill. Pitted limonite at end of interval. Intense sericite at end of interval.
						LIM				s											
						OXY				I											

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

155.86	156.26	GNE	GY-OR	MD	SER				s						QZ	FD	SER			Stockwork limonitic fractures. Banded sericite. Trace disseminated rusty pyrite cubes. Well folliated. Gniessic fabric obscured by intense silicification.
					BLE				s						LIM	PY				
					SIL				s											
					POT				s											
156.26	156.31	SILL	GN-GY	LT											FD			PY	m	Feldspar porphyry sill? Similar to feldspar porphry from previous Dan Man holes in Zone A. 0.2cm angular feldspar phenocrysts set in pale green feldspathic groundmass. Minor rusty pyrite. Trace black fractures. Manganese?
																		MN	t	
156.31	158.62	GNE	GY-OR	MD	SER				s						QZ	FD	SER			Stockwork limonitic fractures. Banded sericite. Trace disseminated rusty pyrite cubes. Well folliated. Gniessic fabric obscured by intense silicification.
					BLE				s						LIM	PY				
					SIL				s											
					POT				s											
158.62	158.87	MAF	L-GN-B	DK	SER				I						Bi	HB	SER			Mafic sill. Intensely oxidized. Relict textures obscured. Weakly folliated. Intense sericite at either end of interval.
					LIM				s											
					OXY				I											
158.87	160.87	GNE	GY-OR	MD	SER				s						QZ	FD	SER			Stockwork limonitic fractures with patchy crackle brecciation. Banded sericite. Cryptic rusty pyrite cubes and disseminated manganese. Well folliated. Gniessic fabric obliterated by intense silicification.
					BLE				s						LIM	PY				
					SIL				s											
					POT				s											
160.87	161.27	CLAY?	BG-BN	MD	CLAY				I						QZ	CLAY				Competent beige clay with microclastic quartz in suspension. Ridiculously potassically altered GNE? Strong brownish coffee-spill type staining. Highly fractured.
161.27	165?	GNE	GY-OR	MD	SER				s						QZ	FD	SER			Stockwork limonitic fractures. Cryptic rusty pyrite cubes and disseminated manganese. Gniessic fabric obliterated by intense silicification. Blocky rubble. Very poor recovery.
					BLE				s						LIM					
					SIL				s											
					POT				s											
165?	167.77	CLAY	BG	LT	CLAY				I						QZ	CLAY				Soft, incompetent clay with coarse quartz grains and siliceous rubble held in suspension. Intense limonitic fracturing visible in larger clasts. Trace black mineral specs in clay.
167.77	170.08	GNE	GY-OR	MD	SER				s						QZ	FD	SER			Stockwork limonitic fractures. Gniessic fabric obliterated by intense silicification. Blocky rubble. Very poor recovery.
					BLE				s						LIM					
					SIL				s											
					POT				s											
170.08	EOH																			End of Hole DM-04-11 rods stuck in rubble. Could not drill further due to torque issues. If zone runs, recommend revisiting pad, drilling with NQ or HQ and reducing to get through clay zone. The problem was the clastic silica that would not wash away with clay thus grinding down the rods and filling the hole whenever rods were pulled back to get the drill going again.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

Hole: DM-04-11

From (m)	To (m)	Interval (m)	Recovery (m)	RQD (m)	Munsell Colour	Hardness	Weathering	Comments
0	5.49	1.26	0.45	0.36				
5.49	8.53	3.05	0.10	0.03				
8.53	11.58	3.02	0.79	0.26				
11.58	14.63	3.16	1.80	0.57				
14.63	17.69	3.10	2.41	0.78				
17.69	20.73	2.24	0.71	0.32				
20.73	23.77	2.97	0.51	0.17				
23.77	26.82	3.04	1.19	0.39				
26.82	29.87	3.22	1.18	0.37				
29.87	32.92	3.16	2.30	0.73				
32.92	35.97	3.10	0.84	0.27				
35.97	39.01	2.98	1.28	0.43				
39.01	42.06	3.10	2.55	0.82				
42.06	45.11	3.02	1.73	0.57				
45.11	48.16	3.09	2.76	0.89				
48.16	51.21	3.05	1.92	0.63				
51.21	54.25	3.06	2.12	0.69				
54.25	57.3	2.96	2.16	0.73				
57.3	60.35	2.72	1.42	0.52				
60.35	63.4	2.66	1.08	0.41				
63.4	66.45	2.90	1.43	0.49				
66.45	69.49	2.92	1.50	0.51				
69.49	72.54	2.98	2.72	0.91				
72.54	75.59	2.87	1.80	0.63				
75.59	79.64	3.07	2.37	0.77				
79.64	81.69	3.17	2.50	0.79				
81.69	84.73	2.90	1.29	0.44				
84.73	87.78	1.87	0.28	0.15				
87.78	90.83	2.66	0.66	0.25				
90.83	93.88	2.69	1.92	0.71				
93.88	96.93	2.58	1.63	0.63				
96.93	99.97	3.80	2.32	0.61				
99.97	103.02	2.46	1.85	0.75				
103.02	106.07	3.02	1.91	0.63				

GEOTECHNICAL LOG

106.07	109.12	2.74	1.73	0.63
109.12	112.17	2.32	1.00	0.43
112.17	115.21	2.71	0.67	0.25
115.21	118.26	1.88	0.00	0.00
118.26	121.31	3.13	1.07	0.34
121.31	124.36	3.00	2.13	0.71
124.36	127.41	3.09	0.84	0.27
127.41	130.45	3.20	2.30	0.72
130.45	133.5	2.89	1.14	0.39
133.5	136.55	3.09	1.21	0.39
136.55	139.59	3.19	0.44	0.14
139.59	142.65	3.03	1.25	0.41
142.65	145.69	3.13	1.38	0.44
145.69	148.74	3.00	0.72	0.24
148.74	151.79	3.20	1.13	0.35
151.79	154.84	3.15	2.44	0.77
154.84	157.89	3.08	1.82	0.59
157.89	160.93	3.17	0.42	0.13
160.93	163.98	1.34	0.00	0.00
163.98	167.03	1.88	0.00	0.00
167.03	170.08	2.82	0.62	0.22
170.08	173.13			
173.13	176.17			
176.17	179.22			
179.22	182.27			
182.27	185.32			
185.32	188.37			
188.37	191.41			
191.41	194.46			
194.46	197.51			
197.51	200.56			
200.56	203.61			
203.61	206.65			
206.65	209.70			
209.70	212.75			
212.75	215.75			
215.75	218.85			

Hole:_____ **Name:**_____ **Page ___ of ___**

From (m)	To (m)	Interval (m)	Recovery (m)	Sample Number	Batch	Comments

Hole:_____ **Date:**_____ **Page:**_____ **of** _____

DENSITY LOG

Depth (m)	Unit	Texture	ALTERATION		MINERALS					Length (cm)	Diameter (cm)	Weight in Air (g)	Weight in Water (g)	DESCRIPTION
			Type	Conc.	%	%	%	Other	%					

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Hole:___DM-04-11____ **Name:_____Justin Enns_____** **Page __1__of____**

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
1	/	
2	/	
3	1.12	
4	0.96	
5	0.84	
6	0.34	
7	0.53	
8	0.55	
9	0.96	
10	0.04	
11	0.88	
12	0.96	
13	1.59	
14	4.38	
15	0.26	
16	0.04	
17	0.77	
18	0.61	
19	0.92	
20	0.41	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
21	0.45	
22	1.82	
23	1.33	
24	-0.41	
25	-0.55	
26	-0.40	
27	0.32	
28	1.18	
29	1.51	
30	2.97	
31	1.57	
32	1.27	
33	0.41	
34	0.00	
35	1.23	
36	0.28	
37	1.04	
38	0.75	
39	0.67	
40	-0.10	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
41	-0.16	
42	1.59	
43	0.47	
44	0.41	
45	0.98	
46	0.36	
47	0.73	
48	-0.02	
49	1.43	
50	0.38	
51	0.53	
52	1.41	
53	0.84	
54	1.39	
55	2.15	
56	1.02	
57	1.10	
58	0.06	
59	2.21	
60	1.33	

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Hole:_____ **Name:**_____

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
61	4.42	
62	1.43	
63	0.79	
64	2.15	
65	2.66	
66	2.93	
67	0.84	
68	0.22	
69	3.07	
70	2.96	
71	1.42	
72	0.88	
73	0.92	
74	1.84	
75	2.32	
76	3.06	
77	3.46	
78	2.41	
79	1.32	
80	0.02	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
81	0.15	
82	-0.45	
83	-0.18	
84	-0.05	
85	1.41	
86	2.15	
87	1.81	
88	0.61	
89	2.13	
90	1.11	
91	1.38	
92	1.43	
93	2.07	
94	2.31	
95		
96		
97		
98		
99		
100		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
101		
102		
103		
104		
105		
106		
107		
108		
109		
110		
111		
112		
113		
114		
115		
116		
117		
118		
119		
120		

Hole: DM-04-11___ **Page ____ of ____**

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled
1	0	8.09		
2	8.09	13.59		
3	13.59	19.11		
4	19.11	24.53		
5	24.53	29.72		
6	29.72	35.02		
7	35.02	40.10		
8	40.10	45.67		
9	45.67	51.21		
10	51.21	56.64		
11	56.64	61.51		
12	61.51	67.02		
13	67.02	72.33		
14	72.33	77.15		
15	77.15	81.69		
16	81.69	85.76		
17	85.76	91.05		
18	91.05	96.16		
19	96.16	100.81		
20	100.81	106.96		
21				
22				
23				

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				

BOX LOG

Dan Man PROPERTY

	Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
ZONE: DM Zone B			581345	6977110		253

SECTION:

HOLE: DM-05-11

CLAIM:

Contractor: ELITE

Drill:

Core size: BTW

Casing depth: (m) in / out

Drilling dates:

Geology logged by: Nicholas Joyce

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	0	-45	compass	255.27		-27.5	ACID

TARGET: Vertical structural zone.

SUMMARY

From (m)	To (m)	Interval	Unit	Comments

SAMPLES

Numbers:

Total:

Batch:

Date Sent:

Certificate:

COMMENTS

The rock in this hole is mostly blocky with minor competent sections and moderate rubbly intervals and clay seams. Note that the hole shallowed considerably at depth.

Hole:___DM-05-11_____ Logger Name:_NICHOLAS JOYCE_____ Date:_AUGUST 10, 2011_____ Page _1_ of ____

GEOLOGY LOG

Sub-Interval	INTERVAL From (m)	INTERVAL To (m)	LITHOLOGY Unit	LITHOLOGY Modifier	LITHOLOGY Texture	ALTERATION			Oxidation	ALTERATION Other Type	ALTERATION Other Intensity	STRUC. Type	STRUC. Attitude (tca)	STRUC.	STRUC. Density (frequency/m	MINERALS			MINERALS Other Type	MINERALS Other Intensity	Photo	DETAILED DESCRIPTION
	0.00	33.87	GNE	Y-BN-B	MD	BLE					m	FO	55			QZ	FD	MUS				Silicified, moderately potassically altered, <0.2cm feldpar-augen, quartz eyelet gneiss with minor limonitic fracture infil, trace limonite and ankerite vienlets and minor metalic-looking mica. Trace mafic minerals. Blocky patches throughout. Well folliated with folliation parallel micaceous banding. Almost schistose. Cryptic disseminated pyrite cubes, <0.1cm. Weak 1-3cm quartz veining and flooding parallel to folliation. Similar to gniessic unit in DM-04-11, down slope on the Caribou Moss Trend.
						LIM					t					CL	ery Mica					
						POT					m											
						SIL					m											
						HEM					t											
																						0-5.53m, Blocky.
				BN		POT					l	DRU				LIM						14.30-14.47m, Intense potassic-argillic alteration obliterating relict gniess textures. Banded quartz veinlets. Minor drusy limonite and banded silvery-green micas.
						LIM					w											
												VN	55			QZ	LIM					16.85m, 3cm weakly limonitic, moderately fractured quartz vein.
												VN	55			QZ						17.66m, 5cm drusy, moderately fractured quartz vein.
												FX	10			AK						18.50m, strongly ankeritic fracture with proximal 2cm wide quartz flooding.
												VT	55			AK	?					18.70m, 0.3cm ankerite veinlet with trace black sooty mineral contained within. Such veinlets occur in moderation, 1/20cm from 14.47-21.75m.
																						19.03-20.10m, relatively unaltered interval.
						LIM					w	VT				AK						20.10-20.44m, strong ankerite veinlets. Brownish limonitic overprinting.
																						20.44-21.05m, Blocky.
												VT	70			Silvery mi		LIM				21.75m, 3cm silvery micaceous band parallel to folliation. Proximal cross cutting 70 degree limonitic microveinlets.
												FO	60			QZ						22.11m, 3cm bull quartz vien, folliation parallel.
																						22.25m, 10cm micaceous clay seam with quartz rubble.
						LIM					w	FX	5									24.60-26.25m, moderately drusy, weakly limonitic, brownish colouration with low angle drusy fractures.
						HEM					w	VN	60			QZ						27.60-28.00m, weakly hematitic with 6 folliation parallel, 1-2cm quartz veins over 40cm.
						LIM					w	VN	60			QZ						28.30-28.58m, weakly limonitic, moderately fractured folliation parallel quartz flood.
						HEM					w											29.06-29.26m, weak hematitic overprinting of silicified gniess.
																						29.45-29.87m, weak hematitic overprinting of silicified gniess.
												FX	5			MN						30.50m, fine dendritic manganese on fracture surface.
												FO	60									32.17-32.95m, weakly limonitic with minor ankerite veinlets crosscutting folliation at 40-50 degrees to core axis. Moderate slivery micaceous bands.
	33.87	34.52	MAF	GN-OR	DK	OXY					m	FO	60			BI	CL	HB				Mafic sill. Peppery texture with rounded 0.3cm feldspars surrounded by platy mafic minerals.
						LIM					m					FD	LIST	LIM				
						CLAY					m											
						LIST					m											
	34.52	39.03	GNE	GY	MD	BLE					m	FO	55			QZ	FD	MUS				Silicified, moderately potassically altered, <0.2cm feldpar-augen, quartz eyelet gneiss with minor limonitic fracture infil, trace limonite and ankerite vienlets and minor metalic-looking mica. Trace mafic minerals. Blocky patches throughout. Well folliated with folliation parallel micaceous banding.
						LIM					t					CL	ery Mica					
						POT					m											
						SIL					m											
						HEM					t											

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

												VT				AK						34.52m, minor coffee-stain type ankerite vienlets over 10cm near contact.
												FX	10									35.97m
												FX	15			AK						36.25m, Ankeritic closed fracture.
																						36.85-37.01m, clear quartz flood with minor druses, banded milky-white quartz with rusty staining. Trace manganese on fracture surfaces.
																						37.92m, blocky, moderately clay altered, increase in abundance of greenish-silver mica. Moderately oxidized. Minor quartz flooding.
																						38.50-40.87m, minor limonite alteration. Intense silicification with coffee-stain type limonite veining at 39.00m. Cut by two minor mafic sills.
39.03	39.24	MAF	GN-OR	DK	OXY					m	FO	60			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm feldspars surrounded by platy mafic minerals.
					LIM					m					FD	LIST	LIM					
					LIST					m												
39.44	39.48	MAF	GN-OR	DK	LIST					l	FO	60			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm feldspars surrounded by platy mafic minerals.
															FD	LIST	LIM					
39.48	55.87	GNE	GY	MD	BLE					m	FO	55			QZ	FD	MUS					Silicified, moderately potassically altered, <0.2cm feldpar-augen, quartz eyelet gneiss with weakly limonitic fracture infil and minor metalic-looking banded mica. Trace mafic minerals. Blocky patches throughout. Cut by several minor mafic intrusions.
					LIM					t					CL	very Mica						
					POT					m												
					SIL					m												
					HEM					t												
											FX	40										40.91m, Ankeritic fracture.
																						40.63-40.87m, greenish-silver mica seam with vuggy quartz flooding. Quartz component is strongly limonitic and highly fractured with vugs containing an earthy brown mineral.
43.87	44.17	MAF	OR	DK	OXY					l					BI	CL	HB					Mafic sill. Completely oxidized. Relict textures obliteratied.
															FD		LIM					
44.91	45.55	MAF	GN-OR	DK	OXY					t					BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Rubbly. Trace oxidation.
					CLAY					m					FD		LIM					
50.74	51.41	MAF	GN-OR	DK	OXY					t	CN	60			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Rubbly. Trace oxidation.
											FO	60			FD		LIM					Intensely silicified GNE at contacts.
53.00	53.36	MAF	GN-OR	DK	OXY					t	CN	60			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Rubbly. Trace oxidized fractures.
											FO	60			FD		LIM					
55.87	56.68	GNE	GY	MD	BLE					m	FO	55			QZ	FD	MUS					Silicified, moderately potassically altered, <0.2cm feldpar-augen, quartz eyelet gneiss with weakly limonitic fracture infil and 30% metalic-looking banded mica. Blocky rubble. Trace 0.3cm rusty pyrite cubes. Minor vuggy quartz floods.
					LIM					t					CL	very Mica						
					SIL					m												
57.76	58.28	MAF	GN-OR	DK	OXY					m	CN	60			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Rubbly. Minor oxidized fractures.
											FO	60			FD		LIM					
59.25	63.95	UPPER	GY	MD	BLE					m	FO	55			QZ	FD	MUS					Silicified, <0.2cm feldpar-augen, quartz-eyelet gneiss with strong limonitic fracture infil and minor metalic-looking banded mica. Minor patches of limonitic crackle breccias. Blocky patches throughout. Cut by several minor mafic intrusions.
		ZONE			LIM					s					CL	very Mica						
		GNE			SIL					m												
		GNE	OR-GY	MD	SIL					s	CN	33	r.90		QZ	LIM	FD					59.25-59.55m, Intensely limonitic-matrix, monomicitc-siliceous-clast breccia with proximal crackle brecciation. Cut by 0.3cm sericitic band parallel to structural axis. Lower structural contact 33 degrees to core axis at a 90 degree down-hole counterclockwise rotation to the 60 folliation axis. interpreted as a brecciation-fluid conduit running a planar 033/45.
		BRXX			LIM					l					SER							
					CLAY					s												59.87-60.20m, strong clay alteration, strongly limonitic rubble.
											FX				AK							60.35-60.77m, highly fractured with ankeritic fracture infill.
		GNE			LIM					s												60.77-62.40m, strongly limonitic-matrix, monomicitc-siliceous-clast breccia grading in and out of proximal crackle brecciation. Trace rusty pyrite.
		BRXX																				
		GNE			LIM					s	FX	20										63.05-63.95m, strongly limonitic-fractured, strongly limonitic, silicified gniess. Limonitic crackle brecciation along 20 degree fracture near upper contact. Trace rusty pyrite.
		BRXX																				

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

62.40	62.85	MAF	GN-OR	DK	OXY					w	CN	60			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Rubbly. Weak oxidation.
					CLAY					w	FO	60			FD		LIM					
63.00	63.05	MAF	GN-OR	DK							CN	85			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Blocky. Lower contact at 85 degrees cuts into highly fractured, intensely silicified rock showing no relict folliation.
															FD		LIM					
63.95	64.98	MAF	GN-OR	DK	HEM					w	CN	60			BI	CL						Mafic sill. Fine grained pale green-blue matrix surrounding platy mafic minerals. Up to 60% matrix. 13cm weakly hematitic, siliceous band at 64.34m with trace disseminated rusty pyrite, minor biotite and strongly limonitic fractures.
											FO	60			FD		LIM					
64.98	74.39	GNE	GY-RD	MD	HEM					s					QZ	FD	Sillvery Mica					Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Cryptic disseminated, rusty pyrite. Moderately hematitic fractures between 20 and 35 degrees to core axis. trace manganese on fracture surfaces. minor patches of increased bleaching and lesser hematization, often associated with an increase in limonitic fractures. Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions.
					SIL					s					HEM							
					Lim					m	FX	10										65.10m, limonitic fracture with 0.4cm rusty bleb. Highly fractured over 30cm.
66.45	66.68	MAF	GN-OR	DK							CN	50			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Lower contact over 1cm pale-yellow quartz vein.
											CN	60			FD	QZ	LIM					
67.04	67.78	MAF	GN-OR	DK	LIST					m	CN	45			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Trace limonite veinlets.
											CN	60			FD	QZ	LIM					Mafic sill ends in blocky gniessic rubble with minor quartz clasts.
69.15	69.66	MAF	GN-OR	DK											BI	CL	HB					Mafic sill. Pitted, peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Blocky rubble.
															FD	QZ	LIM					Mafic sill ends in blocky gniessic rubble with minor quartz clasts.
72.41	72.80	UPPER	GY-OR	LT	SIL					l	FX				QZ	FD						Highly fractured, intensely silicified bottom end of upper zone of interest Contains dendritic interplay between limonite and a grey sulphide that is almost sooty in appearance.
		ZONE			BLE					s					LIM	Grey Sulfide?						
		EXTENSION			LIM					s												
		GNE																				
74.39	75.00	MAF	GN-OR	DK							CN	40			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Blocky.
											CN	55			FD	QZ	LIM					
											FO	55										
											FX	30										
75.00	84.77	GNE	GY-RD	MD	HEM					s					QZ	FD	Sillvery Mica					Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Cryptic disseminated, rusty pyrite. Trace manganese on fracture surfaces. minor patches of increased bleaching and lesser hematization, often associated with an increase in limonitic fractures. Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions.
					SIL					s					HEM							
																						76.83-77.70m, Moderately bleached and limonitic gniess with strong limonitic fracturing and moderate ankerite veinlets. Trace rusty disseminated pyrite and minor disseminated manganese.
																						78.00-86.00m, blocky.
											FO	50										78.64-79.48m, Moderately bleached and limonitic gniess with strong limonitic fracturing and moderate ankerite veinlets. Trace rusty disseminated pyrite and minor disseminated manganese.
79.48	80.60	MAF	GN-OR	DK	LIST					t	CN	40			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Blocky. Trace epidote between units near upper contact.
					EP					t	CN	40			FD	EP						
82.88	83.36	MAF	GN-OR	DK	LIST					w	CN	50			BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals.
											FO	50			FD							
84.77	85.25	MAF	GN-OR	DK	LIST					w					BI	CL	HB					Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Contacts obscured by rubble.
															FD							
85.25	87.87	GNE	GY-RD	MD	HEM					s					QZ	FD	Sillvery Mica					Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Cryptic disseminated, rusty pyrite. Trace manganese on fracture surfaces. minor patches of increased bleaching and lesser hematization, often associated with an increase in limonitic fractures. Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions.
					SIL					s					HEM							
															HEM							86.00-87.78m, increase in limonitic fracture density. Trace spicular hematite on fracture surfaces.

87.78	88.35	MAF	GN-OR	DK							VN	55			BI	CL	HB				Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Blocky rubble with minor bull quartz flooding and minor epidote. Lower contact distinct over 2cm quartz vein.
											CN	55			FD						
88.35	94.66	GNE	GY-RD	MD	HEM					s	FO	60			QZ	FD	Sillvery Mica				Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Cryptic disseminated, rusty pyrite. Trace manganese on fracture surfaces. minor patches of increased bleaching and lesser hematization, often associated with an increase in limonitic fractures. Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions.
					SIL					s					HEM						
																					92.33-92.65m, rubble with minor red hematitic clays on fracture surfaces. Fault zone?
94.66	98.05	MAF	GN-OR	DK											BI	CL	HB				Mafic sill. Peppery texture with rounded 0.3cm caly altered feldspars surrounded by platy 0.4cm mafic laths. Contains a slickenside-type suface cutting the core axis at 35 degrees, a 40 degree rotation from the folliation axis.
											FT?	35	r.40		FD						
															QZ						95.43-95.77m, coarse crystaline pink quartz with minor mafic minerals all flooded by bull quartz. Blocky.
					LIST					t	CN	50									95.77-98.05m, trace epidote and listwanite alteration to mafic minerals. Lighter green colour than other sills. Ends in 10cm micaceous clay.
					EP					t											
98.05	100.59	GNE	GY-RD	MD	HEM					s	FO	60			QZ	FD	Sillvery Mica				Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Cryptic disseminated, rusty pyrite. Trace manganese on fracture surfaces. minor patches of increased bleaching and lesser hematization, often associated with an increase in limonitic fractures. Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions.
					SIL					s					HEM						
															QZ	LIM					98.70-99.03m, 30% white quartz flood with mottled hardscratch limonitic patches. Moderately fractured.
100.59	100.92	MAF	GN-OR	DK											BI	CL	HB				Mafic sill. Peppery medium-grained texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Upper 30 degree contact, lower contact obscured.
											CN	30			FD						
100.92	114.63	GNE	GY-RD	MD	HEM					s	FO	60			QZ	FD	Sillvery Mica				Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Cryptic disseminated, rusty pyrite. Trace manganese on fracture surfaces. Common 7 degree bright red hematitic fractures. Fault Zone? Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions.
					SIL					s					HEM						
											FX				KAO	MN					103.02m, soft waxy white-green mineral on fracture surfaces. Kaolinite? Hardness <2. Also minor manganese on fracture surfaces.
															MG	EP	HE				104.69-105.69m, 5% epidote banding ending in 8cm hematitzed quartz-epidote flood with proximal speckled magnetite. Strongly magnetic.
															QZ						
																					110.30-110.65m, no hematitic overprinting. Moderate quartz flooding.
											FX	10									114.05-114.63m, strong 10 degree limonitic fractures
111.61	111.89	MAF	GN-OR	DK	CLAY					m					BI	CL	HB				Mafic sill. Peppery medium-grained texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals.
															FD						
114.88	114.05	MAF	GN-OR	DK							CN	60			BI	CL	HB				Mafic sill. Peppery medium-grained texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Trace rusty disseminated pyrite.
															FD						
114.63	115.62	MAF	GN-OR	DK							CN	60			BI	CL	HB				Mafic sill. Peppery medium-grained texture with rounded 0.3cm caly altered feldspars surrounded by platy mafic minerals. Trace rusty disseminated pyrite.
															FD						
115.62	118.26	GNE	GY-RD	MD	HEM					s	FO	60			QZ	FD	Sillvery Mica				Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Cryptic disseminated, rusty pyrite. Trace manganese on fracture surfaces. Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions.
					SIL					s					HEM						
																					115.62-117.87m, moderate limonitic fractures. Trace limonitic veinlets. Interval ends in 40cm of quartz rich rubble.
118.26	118.61	MAF	GN-OR	DK	OXY					s					BI	CL	HB				Mafic sill. Strongly oxidized, drusy, biotite-rich rubble. Minor quartz flooding.
															FD						
118.26	118.61	MAF	GN-OR	DK	OXY					s	CN	55			BI	CL	HB				Mafic sill. Strongly oxidized, pitted, strongly hematitic biotite-rich intrusive.
											FO	55			FD						

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

118.61	143.32	GNE	GY-RD	MD	HEM					s	FO	60			QZ	FD	Sillvery Mica					Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Cryptic disseminated, rusty pyrite. Trace manganese on fracture surfaces. Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions. Blocky.
					SIL					s					HEM							
					LIM					l												118.61-119.50m, intensely limonitic, bleached rubble. Minor crackle brecciation and moderate pitting. Minor quartz flooding. Ends in 15cm oxidized soil?
					BLE					l												
											FX	7										122.31-122.82m, waxy white mineral on fracture surfaces. Kaolinite?
																						125.30-125.60m, weakly limonitic fracture surfaces. Rubble.
																						126.40-126.75 Strongly bleached, weakly hematitic gniess with trace coffee-stain limonite on fracture surfaces. Strongly folliated, highly fractured.
																						128.48-128.80m, Moderately quartz flooded, minor Mafic seam interbedded with the hematitic silicified gniess.
																						128.84-128.88m, Moderately quartz flooded, minor Mafic seam interbedded with the hematitic silicified gniess.
																						129.00-129.06m, Moderately quartz flooded, minor Mafic seam interbedded with the hematitic silicified gniess.
																						129.44-129.50m, Moderately quartz flooded, minor Mafic seam interbedded with the hematitic silicified gniess.
											FX				QZ							129.60m, 6cm foliation parallel quartz flood. Moderately fractured.
											FX	55										130.25m, reddish clay on surface of fracture crosscutting foliation.
											FX	20										131.52-132.07m, blocky with low angle fractures.
											VN	55										135.50-136.78m, four 1.5cm foliation parallel quartz veins
											FO	55										
																						136.47-136.55m, strongly hematitic, minor Mafic seam interbedded with the hematitic silicified gniess.
																						136.94-137.01m, strongly hematitic, minor Mafic seam interbedded with the hematitic silicified gniess.
																						139.75-139.80m, strongly hematitic, minor Mafic seam interbedded with the hematitic silicified gniess.
*											VN	15			CA			PY	t			141.75m, Multi-generational white-beige-pink calcite veinlets causing monomictic-clast breccia with trace pyrite inclusions.
											VT	20										140.20-143.32m, minor calcite with associated limonite veinlets and fracture surface coatings.
143.32	144.00	MAF	GN	MD	LIST					m	CN	40			BI	CL	EP					Teal-green medium-grained moderately listwanite altered mafic intrusion. Trace limonite veinlets.
		SCH													LIST							
144.00	145.14	GNE	GY-RD	MD	HEM					s					QZ	FD	Sillvery Mica					Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Cryptic disseminated, rusty pyrite. Trace manganese on fracture surfaces. Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions. Blocky.
					SIL					s					HEM							
											VT	50-60			CA							144.00-144.67m, moderately pervasive calcite veinlets crosscutting foliation.
											VN				QZ	AK	CA					144.67-145.14m, highly fractured white quartz vein with trace limonitic fractures and a 0.2cm, 30 degree ankerite with calcite bi-generational veinlet.
145.14	145.77	MAF	GN	MD	LIST					m	CN	40			BI	CL	EP					Teal-green medium-grained moderately listwanite altered mafic intrusion. Trace limonite veinlets. Soft dark green, fine-grained mineral in vienlets and blebs crosscutting folliation at 60 degrees.
		SCH													LIST							
145.77	153.75	GNE	GY-RD	MD	HEM					s					QZ	FD	Sillvery Mica					Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Cryptic disseminated, rusty pyrite. Trace manganese on fracture surfaces. Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions. Blocky.
					SIL					s					HEM							
																						146.17m, 10cm quartz flood crosscut by four 50 degree limonitic veinlets. Minor brown mineral-coated vugs. Proximal trace rusty pyrite.
					BLE	SER				m	VT				SER							146.17-146.69m, moderately bleached with trace limonitic veinlets and minor sericite.
					SER	BLE				m												148.33-151.00m, moderately bleached with trace limonitic veinlets and minor sericite. Moderate limonite overprinting over the bottom 40cm encompassing a 4cm clay seam with 0.1cm clasts held in clay suspension.
					SER	BLE				m	FX				MN							152.98-153.75m, moderately bleached with trace limonitic veinlets and minor sericite. Minor manganese on fracture surfaces.

153.75	172.57	GNE	GY	MD	SIL					s					QZ	FD	Sillvery Mica					Strongly silicified and moderately bleached Quartz-feldspar gniess. Minor silvery-micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Trace manganese on fracture surfaces. Unit cut by minor peppery Bi-FD-CL +/- Listwanite +/- Epitdote-rich mafic intrusions. Blocky. End of hematitic overprint.
		Mini-Zone			BLE					s												153.75-156.00m, rubble. Strongly bleached. Minor crackle breccia from 154.60-154.83 and 155.50-155.70. Limonite-matrix clast breccia over 10cm at 154.30m. Minor 3cm fractured quartz vein in rubble at 155.20m. Soft, pale-green, translucent mineral in pervasive veinlets causing crackle brecciation at 155.00m over 15cm.
					BLE					s	C.BRXX				LIM	green mineral?				s		156.00-157.58m, moderately bleached with trace limonitie vienlets and pits.
					BLE					m	VT				LIM					t		157.58-158.06m, pervasive limonite microfractures grading into a 60cm interval of strong coffee-stain type ankerite veinlets and trace calcite veinlets.
											VT	coffee			AK	CA				s		158.06-159.76m, minor limonite veinlets ending in a 1cm crackle brecciated band.
											VT				LIM					m		
159.76	160.23	MAF	GN	MD	LIST					m					BI	CL	EP					Teal-green medium-grained moderately listwanite altered, biotite-chlorite-feldspar, mafic intrusion. Moderate limonite veinlets.
		SCH													LIST	FD						
163.98	164.85	MAF	GN	MD	LIST					t					BI	CL	EP					Green, peppery, moderately listwanite altered, biotite-chlorite-feldspar, mafic intrusion. Trace limonite veinlets.
		SCH													LIST	FD						
164.85	168.32	GNE	GY-RD	MD	HEM					s					QZ	FD	Sillvery Mica					Strongly silicified and hematitic purply-reddish-grey gniess. Minor silvery micaceous bands gives a good folliation reference over a moderately mottled siliceous texture.
					SIL					s					HEM							
168.32	172.57	GNE	GY	MD	SIL					s					QZ	FD	Sillvery Mica					Strongly silicified and moderately bleached Quartz-eye-feldspar gniess. Minor silvery-green micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Trace manganese on fracture surfaces. Well foliated. Minor quartz flooding.
					BLE					w												
172.57	173.02	MAF	BK-WH	MD	LIST					s	CN	40			BI	CL	PY					Black and white, Biotite-Quartz-eye-Listwanite-altered mafic intrusion. 0.3cm quartz eyes. Minor ankerite veinlets. Minor quartz flooding. Trace disseminated pyrite.
		GNE									FO	50			LIST	FD						
173.02	179.62	GNE	GY	MD	SIL					s					QZ	FD	Sillvery Mica					Strongly silicified and moderately bleached Quartz-eye-feldspar gniess. Minor silvery-green micaceous bands gives a good folliation reference over a moderately mottled siliceous texture. Trace manganese on fracture surfaces. Well foliated. Minor quartz flooding.
					BLE					w												
					SER					s	FO	50										173.02-179.62m, strongly sericitic, well folliated, intensly silicified and weakly limonitic.
											FX	20										173.12m, strong, yellowy limonitic fractures over 1cm.
											FX	30-45										173.75-174.04m, stockwork limonitic fractures at 30 and 45 degrees crosscutting folliation. Trace manganese on fracture surfaces.
											VT	20										175.00m, 0.5cm limonite veinlet.
											FX	20										175.10m, stockwork limonitic fractures over 2cm.
					LIM																	177.13-177.50m, intense limonitic overprinting and microfractures.
																						177.75m, 0.5cm limonitic quartz veinlet.
179.62	184.57	MAF	BK-WH	MD	LIST					s	CN	40			BI	CL	PY					Black and white, Biotite-Quartz-eye-Listwanite-altered mafic intrusion. 0.3cm quartz eyes. Minor foliation parallel limonite veinlets. Minor quartz flooding. Cut by two siliceous subintervals Felsic Dyke rock? Trace disseminated pyrite. Bordered by intensely sericite-altered rock.
		GNE									CN	45			LIST	FD						
		YW									SILL?				QZ	FD						181.94-182.45m, Minor Felsic sill bordered by 10cm silvery micaceous bands. Pale yellow, drusy, pitted, siliceous rock.
		OR									SILL?				QZ	FD	LIM					182.93-183.15m, Minor 15cm Felsic sill bordered by silvery-micaceous bands. Orange siliceous rock with intense limonitic stockwork fracturing.
184.57	192.07	FELSIC	GY-BG	LT	SIL					l	CN	45			QZ	FD						Felsic Dyke. Vertical upper contact. Intensely silicified quartz-feldspar dyke with mottled or no distinct textures. Hosts intervals of strong limonitic crackle breccias and limonite-matrix breccia. Interlayered with mafic, gniessic intrusives.
		DYKE			BLE					l												
																						186.60m, low angle fracture-crackle breccia over 10cm. Trace manganese on fracture surfaces.
																						187.00-188.47m, strong coffee-stain limonite overprinting ending in 30cm of intense limonite-fracture-crackle breccia with trace black minerals in fractures.
																						189.31-189.56m, silvery mica seam with blebby listwanite, 3cm quartz flooding and minor 0.3cm quartz eyelets. Trace pyrite cubes, <0.3cm.
			WH		SIL					II					QZ	LIM	CA					190.68-192.07m, Intensely silicified interval with minor quartz flooding bordered by intense limonite veinlets and blebs, minor calcite blebs and black mineral speckles.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

192.07	192.79	MAF	BK-WH	MD	LIST					s	FO	60			BI	CL						Peppery, black and white, Biotite-Quartz-eye-Listwanite-altered mafic intrusion. 0.3cm quartz eyes. Minor quartz flooding. Bordered by intensely sericite-altered rock at upper contact.
		GNE									CN	60			LIST	FD						
																						192.49-192.58m, highly fractured quartz flooding with proximal silvery mica and folliation parallel limonite microveinlets.
																						192.58-192.79m, intense limonitic overprinting.
192.79	194.86	FELSIC	GY-BG	LT	SIL					I	CN	60			QZ	FD						Felsic Dyke. . Intensely silicified quartz-feldspar dyke with mottled or no distinct textures. Hosts intervals of strong limonitic crackle breccias and limonite-matrix breccia. Interlayered with mafic, gniessic intrusives.
		DYKE			BLE					I												
											VN	60										192.79-192.88m, highly fractured interval containing 1cm quartz vein ending in burnt-looking crispy brown band over 1cm at 80 degrees.
											FX	5			LIM	AK	MN					192.88-194.86m, limonite crackle breccia with low angle clay-filled fracture. Strong ankerite and limonite veinlets and minor disseminated manganese.
											C.BRXX											
194.86	195.08	MAF	BK-WH	MD	AK					s					BI	CL						Peppery, black, white and greenish, Biotite-Quartz-eye mafic intrusion. 0.3cm quartz eyes. Strong ankeritic overprinting.
											CN	60				FD						
195.08	202.25	FELSIC	GY-BG	LT	SIL					I	CN	60			QZ	FD						Felsic Dyke. Intensely silicified quartz-feldspar dyke with mottled or no distinct textures. Minor quartz flooding. Hosts intervals of strong limonitic crackle breccias and limonite-matrix breccia. Interlayered with mafic, gniessic intrusives.
		DYKE			BLE					I												
											FX	30			LIM							195.08-201.12m, strong 30 degree limonitic and blackened microfractures. Almost crackle breccia.
											VT	40			LIM							196.30m, intense limonitic fractures surrounding 0.7cm 40 degree limonitic breccia veinlet.
					SIL										MN							197.11-197.72m, peach-coloured subinterval with strong low-angle fractures and trace disseminated manganese?
										I	BRXX											197.90m, 5cm brecciated quartz flood,
															HE							198.00-198.85m, trace blueish-black hematite in limonite veinlets.
					LIM					I	FX											201.12-201.33m, intense limonitic fractures and overprinting.
			BL-GY								FX				HE							201.33-201.59m, intensely silicified blueish-grey coloured dyke rock. Trace hematite in fractures.
					LIM					I												201.59-202.25m, intense limonite overprinting. Ends in 10cm blue-grey interval.
202.25	204.40	MAF	BK-WH	MD	LIST					s	CN	60			BI	CL						Black and white, Biotite-Quartz-eye-Listwanite-altered mafic intrusion. 0.3cm quartz eyes. Minor foliation parallel limonite veinlets. Minor quartz flooding. Intensely sericite-altered 3cm bands at 203.02m and 203.11m. Both contacts are foliation parallel.
		GNE			LIM					m	CN	40			LIST	FD						
204.40	209.77	FELSIC	GY-BG	LT	SIL					I	CN	60			QZ	FD						Felsic Dyke. Intensely silicified quartz-feldspar dyke with mottled or no distinct textures. Faint trace pyrite in limonitic fractures. Blocky. Moderately limonitic overprinting.
		DYKE			BLE					I												
					LIM					m												
209.77	210.60	MAF	BK-WH	MD	LIST					s	VT	60			BI	CL						Fine-grained to peppery, mottled, Biotite-Quartz-eye-Listwanite-altered mafic intrusion. 0.3cm quartz eyes. Strong hematite and listwanite veinlets. Rubbly contacts.
															LIST	FD	HE					
210.60	218.56	FELSIC	GY-BG	LT	SIL					I	CN	60			QZ	FD						Felsic Dyke. Intensely silicified quartz-feldspar dyke with mottled or no distinct textures. Minor quartz flooding. Hosts intervals of strong limonitic crackle breccias and limonite-matrix breccia. Interlayered with mafic, gniessic intrusives.
		DYKE			LIM					m-s												
															LIM	MN		PY	t			210.60-212.12m, blocky rubble. Strong limonitic fractures. Manganese on fracture surfaces. Cryptic rusty disseminated pyrite. Interval ends in moderately clay altered rubble over 10cm.
					LIM					s	C.BRXX				LIM	MN						212.12-214.61m, limonite-crackle breccia. Blocky rubble. Minor patches of limonite-matrix clast breccia. Trace manganese on fracture surfaces. Treace black mineral in limonitic veinlets.
					LIM					s	C.BRXX				LIM			PY	m			214.61-216.03m, beige-orange crackle breccia with minor <2% banded and disseminated fine-grained pyrite. Pyritic bands at 214.80m and 215.55m. 3% pyrite in <0.3cm blebs over 20cm from 215.28m.
											BRXX							PY	t			216.03-216.25m, diamictic clast breccia. Quartz and felsic dyke-derived clasts. Limonite and patchy dark grey-blue siliceous groundmass containing trace dissemintated fine-grained pyrite.
											BRXX							PY	m			216.85m, 1cm banded grey-blue silicia + fine-grained pyrite matrix microbreccia.
											BRXX				QZ							217.64-217.97m, quartz-clast breccia within felsic dyke matrix.
											BRXX											217.97-218.32m, no limonitic overprinting. Greeny-grey-blue dyke rock crackle breccia.
																						218.32-218.56m, rubble. Moderate limontic overprinting.
218.56	219.30	CLAY	GN-GY	MD	CLAY					I	Rubble											218.56-218.85m, Clay-rubble with slickenside-type textures on larger pieces.
											Fault?											215.85-219.30m, Grey-green clay rubble.
219.30	221.79	MYLON	GN-GY	MD	LIST					s					QZ	EP	CLAY					Quartz-epidote mylonite. Highlyfractured. Blocky. Strong listwanite fracture infill.
					CLAY					w					BLE	LIST						

					LIM					m												219.30-220.88m, moderate limonite overprinting.
					CLAY					s					HE						220.88-221.56m, strong clay alteration. Minor hematite veinlets. Blocky.
											CN	60									221.56-221.79m, no clay alteration. Intense limonite overprinting. Highly fratured. Sharp lower contact.
221.79	224.65	DACITE	GY	MD	HEM					t	FO	60			QZ	FD	Bi				Weakly lineated Dacite. 15% Biotite, 15% Feldspar, 50% quartz with trace hematization of 10% of quartz phenocrysts. 0.2cm equigranular crystals. Blocky.
																					221.79-222.80m, strong limonite overprinting. Slickenside type fracture surfaces.
																					222.80-224.65m, blocky.
224.65	224.84	FD POR	GN	DK							CN	35			FD	CA					0.2cm sub-angular feldspar phenocrysts set in dark green feldspathic aphanitic groundmass. Trace calcite veinlets.
		DKYE									VT	10, 60									
224.84	228.64	DACITE	GY	MD	HEM					t	FO	60			QZ	FD	Bi				Weakly lineated Dacite. 15% Biotite, 15% Feldspar, 50% quartz with trace hematization of 10% of quartz phenocrysts. 0.2cm equigranular crystals. Blocky.
					SIL					s	SS										224.84-225.64m, strongly silicified, weakly folliated. Blocky slickenside type fracture surfaces.
																					225.64-228.64m, blocky rubble.
228.64	229.90	MAF	GN-BK	DK							FO	60			Bi	CL	HB	QZ			Fine-grained to peppery 0.2cm quartz phenocrystic, dark-green chlorite-biotite-hornblende mafic rock. Similar at first glace to the above dark green feldspar porphyry but darker, hard scratch and lacking the feldspar phenocrysts. Weakly linneated. Blocky. contacts obscured by rubble.
229.90	230.52	DACITE	GY	MD	HEM					t					QZ	FD	Bi				Dacite rubble.
230.52	231.07	MAF	GN-BK	DK							CN	70?			Bi	CL	HB	QZ			Fine-grained to peppery 0.2cm quartz phenocrystic, dark-green chlorite-biotite-hornblende mafic rock.Weakly linneated. Blocky.
											CN	80?									
231.07	238.46	DACITE	GY	MD	HEM					t	CN	40			QZ	FD	Bi				Weakly lineated Dacite. 15% Biotite, 15% Feldspar, 50% quartz with trace hematization of 10% of quartz phenocrysts. 0.2cm equigranular crystals. Blocky.
																					231.07-231.43m, rubble.
238.46	247.31	MAF	GN-BK	DK							FO	35			Bi	CL	HB	QZ			Fine-grained to peppery 0.2cm quartz phenocrystic, dark-green chlorite-biotite-hornblende mafic rock.Well foliated. Trace epidote veinlets and hematitic fractures.
											FX	45,60									
																					244.10m, minor wavy folliation over 7cm.
											CN	30									247.31m, foliation parallel contact.
247.31	247.71	DACITE	GY	MD	HEM					t	CN	35			QZ	FD	Bi				Well foliated Dacite. 15% Biotite, 15% Feldspar, 50% quartz with trace hematization of 10% of quartz phenocrysts. 0.2cm equigranular crystals. Trace dendritic manganese on fracture surfaces.
247.71	255.27	MAF	GN-BK	DK											Bi	CL	HB	QZ			Fine-grained to mottled, 0.2cm quartz phenocrystic, dark-green chlorite-biotite-hornblende mafic rock. Blocky.
		SCH									CN	45			MUS	QZ	CL				249.60-249.80m, Muscovite-Quartz schist seam with minor chlorite. Well folliated.
																					249.80m, 10cm quartz clast cubble.
																					249.90-252.40m, peppery mafic grading into fine-grained, very well folliated mafic rock by end of sub-interval.
											FO	25			LIST			PY	t		253.20-254.50m, moderate banded listwanite. Trace disseminated and thin, lath-like pyrite.
	255.27	EOH																			EOH

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

Hole: DM-05-11 Name: Justin Enns Page _1_ of ___

From (m)	To (m)	Interval (m)	Recovery (m)	RQD (m)	Munsell Colour	Hardness	Weathering	Comments
4.46	5.49	1.04	0.00					
5.49	8.53	2.66	0.96					
8.53	11.58	3.35	1.28					
11.58	14.63	2.76	1.35					
14.63	17.68	2.84	1.56					
17.68	20.73	2.85	1.63					
20.73	23.77	2.91	0.95					
23.77	26.82	3.06	1.95					
26.82	29.9	2.82	1.19					
29.9	32.92	3.27	1.09					
32.92	35.97	3.24	1.71					
35.97	39.01	3.09	0.38					
39.01	42.06	3.05	1.28					
42.06	45.11	2.98	0.43					
45.11	48.16	2.98	1.03					
48.16	51.21	3.07	1.44					
51.21	54.25	3.06	1.11					
54.25	57.3	3.03	1.37					
57.3	60.35	3.02	1.35					
60.35	63.4	3.02	1.65					
63.4	66.45	3.16	1.95					
66.45	69.49	2.80	1.23					
69.49	72.54	2.91	1.60					
72.54	75.59	2.93	1.35					
75.59	78.64	3.13	1.45					
78.64	81.69	2.43	0.59					
81.69	84.73	2.70	1.64					
84.73	87.78	2.46	1.19					
87.78	90.83	2.75	1.64					
90.83	93.89	2.43	1.02					
93.89	96.93	3.21	1.46					
96.93	99.97	2.86	1.73					
99.97	103.02	4.24	1.29					
103.02	106.07	3.39	1.69					

GEOTECHNICAL LOG

106.07	109.12	3.30	1.35						
109.12	112.17	3.10	0.64						
112.17	115.21	3.40	0.99						
115.21	118.26	3.51	1.25						
118.26	121.31	3.29	0.75						
121.31	124.36	3.35	1.76						
124.36	127.4	3.64	1.11						
127.4	130.45	3.06	2.47						
130.45	133.5	3.21	1.60						
133.5	136.55	3.34	1.45						
136.55	139.59	3.51	3.05						
139.59	142.64	2.74	2.51						
142.64	145.69	3.15	2.14						
145.69	148.74	2.75	1.39						
148.74	151.79	2.98	1.76						
151.79	154.83	2.61	1.30						
154.83	157.88	2.69	1.61						
157.88	160.93	3.14	2.80						
160.93	163.98	3.13	2.06						
163.98	167.03	3.10	2.00						
167.03	170.08	3.24	2.73						
170.08	173.12	3.26	2.15						
173.12	176.17	3.18	2.37						
176.17	179.22	3.07	2.61						
179.22	182.27	3.33	2.17						
182.27	185.32	3.25	2.21						
185.32	188.37	3.35	0.78						
188.37	191.41	3.62	1.53						
191.41	194.46	3.34	2.14						
194.46	197.51	3.19	2.54						
197.51	200.56	3.17	2.57						
200.56	203.61	3.29	1.75						
203.61	206.65	3.03	1.80						
206.65	209.70	3.44	0.57						
209.70	212.75	2.95	0.98						
212.75	215.79	3.78	1.46						
215.79	218.85	3.36	1.40						
218.85	221.90	3.04	0.00						
221.90	224.94	4.07	0.15						
224.94	227.99	3.76	0.44						
227.99	231.04	3.54	0.61						
231.04	234.09	2.64	1.36						
234.09	237.13	2.67	1.94						
237.13	240.18	3.07	1.35						
240.18	243.23	2.68	1.54						
243.23	246.28	3.38	1.14						
246.28	249.33	2.78	1.48						
252.37	255.27	2.88	2.68						

Hole:_____ **Name:**_____ **Page ___ of ___**

From (m)	To (m)	Interval (m)	Recovery (m)	Sample Number	Batch	Comments
0.00	6.70			I079970		
6.70	9.29			I079971		
9.29	11.58			I079972		
11.58	14.47			I079973		
14.47	17.66			I079974		
17.66	20.44			I079975		
20.44	23.77			I079976		
23.77	26.82			I079977		
26.82	29.87			I079978		
29.87	32.17			I079979		
32.17	34.28			I079980		
34.28	37.01			I079981		
37.01	39.81			I079982		
39.81	43.87			I079983		
Standard	CDN-ME-12			I079984		
43.87	45.55			I079985		
Blank				I079986		
45.55	48.16			I079987		
48.16	50.74			I079988		
50.74	53.36			I079989		
53.36	55.87			I079990		
55.87	58.28			I079991		
58.28	59.25			I079992		
59.25	60.77			I079993		
Standard	CDN-ME-12			I079994		
60.77	62.40			I079995		
62.40	64.98			I079996		
Blank				I079997		
64.98	67.04			I079998		
67.04	69.66			I079999		
69.66	72.41			I080000		
72.41	74.39			K974566		

SAMPLE LOG

74.39	76.83			K974567		
76.83	79.48			K974568		
79.48	82.88			K974569		
82.88	88.35			K974570		
88.35	90.83			K974571		
90.83	94.66			K974572		
94.66	98.05			K974573		
98.05	100.92			K974574		
100.92	103.02			K974575		
103.02	106.01			K974576		
106.01	109.12			K974577		
109.12	111.89			K974578		
111.89	115.62			K974579		
115.62	117.87			K974580		
Standard	CDN-ME-12			K974581		
117.87	119.84			K974582		
Blank				K974583		
119.84	124.36			K974584		
124.36	128.43			K974585		
128.43	132.40			K974586		
132.40	136.47			K974587		
136.47	139.95			K974588		
139.95	143.32			K974589		
143.32	145.77			K974590		
145.77	148.33			K974591		
148.33	152.84			K974592		
152.84	154.83			K974593		
154.83	157.58			K974594		
157.58	159.06			K974595		
159.06	162.23			K974596		
162.23	164.90			K974597		
164.90	168.32			K974598		
168.32	172.57			K974599		
172.57	174.04			K974600		
174.04	177.13			K975301		
177.13	179.62			K975302		
179.62	181.94			K975303		
181.94	184.57			K975304		
Standard	CDN-ME-2			K975305		
186.40	188.48			K975306		
188.48	190.68			K975307		
190.68	192.07			K975308		
192.07	195.08			K975309		
195.08	197.72			K975310		
197.72	201.13			K975311		
201.13	202.25			K975312		
Blank				K975313		
202.25	204.45			K975314		
204.45	206.96			K975315		
206.96	209.77			K975316		
209.77	212.12			K975317		
212.12	214.61			K975318		
CDN-ME-2				K975319		
214.61	216.03			K975320		

SAMPLE LOG

216.03	216.91			K975321		
216.91	218.56			K975322		
Blank				K975323		
218.56	221.79			K975324		
221.79	224.65			K975325		
224.65	228.62			K975326		
228.62	231.07			K975327		
231.07	234.54			K975328		
234.54	238.46			K975329		
238.46	243.23			K975330		
243.23	247.31			K975331		
247.31	249.96			K975332		
249.96	255.27			K975333		

SAMPLE LOG

Hole:_____ **Date:**_____ **Page:**_____ **of** _____

DENSITY LOG

Depth (m)	Unit	Texture	ALTERATION		MINERALS					Length (cm)	Diameter (cm)	Weight in Air (g)	Weight in Water (g)	DESCRIPTION
			Type	Conc.	%	%	%	Other	%					

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Hole:___DM-01-11____ **Name:_____NICHOLAS JOYCE_____** **Page __1__of____**

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
1	1.29	
2	2.33	
3	2.58	
4	1.70	
5	2.23	
6	0.92	
7	3.15	
8	3.46	
9	3.38	
10	2.41	
11	2.66	
12	1.72	
13	2.09	
14	1.59	
15	4.12	
16	1.49	
17	1.94	
18	0.06	
19	1.94	
20	1.98	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
21	0.63	
22	1.88	
23	0.34	
24	0.41	
25	-0.96	
26	0.36	
27	-0.63	
28	1.61	
29	2.02	
30	1.33	
31	0.86	
32	1.64	
33	0.71	
34	1.18	
35	2.05	
36	1.72	
37	0.06	
38	1.55	
39	0.41	
40	0.04	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
41	0.06	
42	0.06	
43	0.47	
44	0.45	
45	0.06	
46	0.41	
47	0.65	
48	0.59	
49	0.41	
50	-0.02	
51	0.02	
52	1.35	
53	0.45	
54	2.41	
55	1.06	
56	2.48	
57	0.36	
58	1.20	
59	0.40	
60	1.45	

Hole:_____ **Name:**_____ **Page __2__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
61	-0.32	
62	0.00	
63	-0.41	
64	2.25	
65	3.54	
66	2.02	
67	1.52	
68	-0.16	
69	-0.18	
70	2.25	
71	0.50	
72	.1.25	
73	1.33	
74	0.63	
75	2.09	
76	0.36	
77	0.92	
78	2.39	
79	3.14	
80	1.18	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
81	2.25	
82	1.10	
83	3.81	
84	2.76	
85	2.07	
86	0.82	
87	0.94	
88	-0.18	
89	1.23	
90	0.75	
91	1.29	
92	0.20	
93	0.17	
94	3.13	
95	0.53	
96	-0.20	
97	0.84	
98	0.49	
99	1.33	
100	1.55	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
101	0.24	
102	-0.32	
103	2.33	
104	0.94	
105	1.33	
106	1.10	
107	0.34	
108	0.06	
109	0.02	
110	0.43	
111	-0.38	
112	-0.55	
113	0.73	
114	0.08	
115	-0.28	
116	0.30	
117	0.06	
118	0.74	
119	-0.20	
120	-0.71	

Hole:_____ **Name:**_____ **Page __3__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
121	-0.21	
122	-0.55	
123	0.61	
124	0.78	
125	0.34	
126	0.22	
127	1.76	
128	1.66	
129	2.35	
130	1.70	
131	1.45	
132	0.73	
133	0.55	
134	0.61	
135	0.28	
136	1.04	
137	2.23	
138	4.83	
139	2.84	
140	3.56	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
141	4.55	
142	3.66	
143	0.45	
144	0.14	
145	2.68	
146	1.18	
147	0.47	
148	0.47	
149	0.38	
150	0.88	
151	1.52	
152	0.49	
153	0.98	
154	0.73	
155	1.75	
156	0.69	
157	0.12	
158	1.12	
159	1.84	
160	2.43	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
161	2.21	
162	2.89	
163	1.12	
164	1.47	
165	-0.22	
166	1.00	
167	1.04	
168	0.58	
169	0.04	
170	1.18	
171	0.34	
172	1.42	
173	0.45	
174	0.47	
175	0.26	
176	0.14	
177	0.34	
178	-0.06	
179	1.12	
180	0.20	

Hole:_____ **Name:**_____ **Page __4__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
181	0.47	
182	0.92	
183	0.69	
184	1.66	
185	1.57	
186	1.33	
187	0.22	
188	0.02	
189	-0.20	
190	-0.71	
191	-0.26	
192	0.24	
193	0.14	
194	0.20	
195	0.34	
196	0.65	
197	0.04	
198	0.24	
199	0.04	
200	0.20	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
201	-0.34	
202	-0.18	
203	-0.02	
204	0.02	
205	1.45	
206	0.98	
207	1.55	
208	1.14	
209	0.32	
210	0.57	
211	2.15	
212	-0.06	
213	0.12	
214	2.46	
215	1.00	
216	1.27	
217	1.20	
218	0.20	
219	-0.12	
220	0.32	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
221	1.84	
222	-0.79	
223	4.26	
224	11.10	
225	9.69	
226	9.43	
227	5.67	
228	6.17	
229	8.20	
230	1.72	
231	6.85	
232	3.60	
233	5.08	
234	4.73	
235	4.51	
236	2.05	
237	1.88	
238	3.54	
239	6.11	
240	1.64	

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
241	3.46	
242	3.52	
243	2.35	
244	1.86	
245	0.63	
246	0.90	
247	1.29	
248	1.49	
249	1.25	
250	2.66	
251	1.55	
252	2.33	
253	4.53	
254	1.88	
255	1.82	
256		
257		
258		
259		
260		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
261		
262		
263		
264		
265		
266		
267		
268		
269		
270		
271		
272		
273		
274		
275		
276		
277		
278		
279		
280		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
281		
282		
283		
284		
285		
286		
287		
288		
289		
290		
291		
292		
293		
294		
295		
296		
297		
298		
299		
300		

ole:_____ Page ____ of ___

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled
1	0	9.60		
2	9.60	14.91		
3	14.91	21.55		
4	21.55	27.28		
5	27.28	32.78		
6	32.78	38.39		
7	38.39	44.20		
8	44.20	49.54		
9	49.54	55.09		
10	55.09	60.35		
11	60.35	66.00		
12	66.00	70.82		
13	70.82	76.07		
14	76.07	81.69		
15	81.69	87.06		
16	87.06	92.36		
17	92.36	98.22		
18	98.22	103.90		
19	103.90	109.52		
20	109.52	115.21		
21	115.21	120.36		
22	120.36	125.68		
23	125.68	130.45		

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled
24	130.5	135.44		
25	135.44	140.65		
26	140.65	146.12		
27	146.12	151.79		
28	151.79	157.53		
29	157.53	162.92		
30	162.92	168.51		
31	168.51	173.85		
32	173.85	178.93		
33	178.93	183.78		
34	183.78	188.63		
35	188.63	193.95		
36	193.95	198.68		
37	198.68	203.11		
38	203.11	208.35		
39	208.35	213.44		
40				
41				

BOX LOG

Dan Man PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		581345	6977110		18.58

ZONE: DM Zone B

SECTION:

HOLE: DM-06-11

CLAIM:

Contractor: ELITE

Drill:

Core size: BTW

Casing depth: _____ (m) in / out

Drilling dates: AUG. 11-12, 2011

Geology logged by:

TARGET:

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	0	-45	compass	18.58	0	?	N/A

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0.00	15.00		GNE	Oxidized Gniessic Rubble.
15.00	18.58		BRXX	Polymicitc, silicified, oxidized, clay matrix supported b

SAMPLES

Numbers:

Total:

Batch:

Date Sent:

Certificate:

COMMENTS

Hole:___DM-01-11_____ Logger Name:_NICHOLAS JOYCE_____ Date:_JULY 28, 2011_____ Page _1_ of ____

Sub-Interval	INTERVAL		LITHOLOGY			ALTERATION						STRUC.				MINERALS					Photo	DETAILED DESCRIPTION
	From (m)	To (m)	Unit	Modifier	Texture				Oxidation	Other Type	Other Intensity	Type	Attitude (tca)		Density (frequency/m				Other Type	Other Intensity		
	0.00	15.00	GNE	BN		OXY					s	Rubble				QZ	FD					Strongly oxidized felsic rubble.
						SIL					s	VT				AK	LIM					Manganese and limonite on fracture surfaces. Strong ankeritic microveinlets. Patchy limonitic crackle breccias.
						POT					s	FX										
				BN-OR		OXY					I	BRXX				QZ	FD		PY	<t		8.53-8.75m, Blocky limonite-matrix breccia. Some brecciated clasts have minor dark blue patches. Cryptic rusted pyrite <<0.1cm cubes.
																AK	LIM					
																						8.75-10.13m, oxidized siliceous rubble. Minor darkened, 'burnt-looking' fracture surfaces. Patchy limonite-clay matrix breccia.
	15.00	18.58	CLAY	BN-OR		OXY					I	BRXX				CLAY	AK					Polymicitic, silicified, oxidized clay matrix-supported breccia. Sub-rounded clasts suggest significant fluid movement. Minor ankeritic fractures and trace coffee-type staining. Rubble.
			BRXX			SIL					m					QZ	FD					
	18.58	EOH																				

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

Hole: DM-01-11 Name: NICHOLAS JOYCE Page _1_ of ___

From (m)	To (m)	Interval (m)	Recovery (m)	RQD (m)	Munsell Colour	Hardness	Weathering	Comments
0	8.53	2.58	0					
8.53	11.58	1.85	0					
11.58	14.63	1.22	0					
14.63	17.68	0.65	0					
17.68	18.58	0.9	0					

GEOTECHNICAL LOG

Hole:_____ **Name:**_____ **Page ___ of ___**

From (m)	To (m)	Interval (m)	Recovery (m)	Sample Number	Batch	Comments
Blank				K975334		
0.00	8.53			K975335		
8.53	11.58			K975336		
CDN-ME-12				K975337		
11.58	14.63			K975338		
14.63	17.68			K975339		
17.68	18.58			K975340		
Blank				K975341		

SAMPLE LOG

Hole:_____ **Date:**_____ **Page:**_____ **of** _____

DENSITY LOG

Depth (m)	Unit	Texture	ALTERATION		MINERALS					Length (cm)	Diameter (cm)	Weight in Air (g)	Weight in Water (g)	DESCRIPTION
			Type	Conc.	%	%	%	Other	%					

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Hole:_____ **Name:**_____ **Page** __1__ **of**____

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8	1.04	
9		
10		
11	1.46	
12		
13		
14	1.43	
15		
16		
17	1.9	
18	0.46	
19		
20		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		

Hole:_____ **Name:**_____ **Page __2__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
101		
102		
103		
104		
105		
106		
107		
108		
109		
110		
111		
112		
113		
114		
115		
116		
117		
118		
119		
120		

Hole:_____ **Name:**_____ **Page __3__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
121		
122		
123		
124		
125		
126		
127		
128		
129		
130		
131		
132		
133		
134		
135		
136		
137		
138		
139		
140		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
141		
142		
143		
144		
145		
146		
147		
148		
149		
150		
151		
152		
153		
154		
155		
156		
157		
158		
159		
160		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
161		
162		
163		
164		
165		
166		
167		
168		
169		
170		
171		
172		
173		
174		
175		
176		
177		
178		
179		
180		

Hole:_____ **Name:**_____ **Page __4__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
181		
182		
183		
184		
185		
186		
187		
188		
189		
190		
191		
192		
193		
194		
195		
196		
197		
198		
199		
200		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
201		
202		
203		
204		
205		
206		
207		
208		
209		
210		
211		
212		
213		
214		
215		
216		
217		
218		
219		
220		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
221		
222		
223		
224		
225		
226		
227		
228		
229		
230		
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232		
233		
234		
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236		
237		
238		
239		
240		

Hole:_____ **Name:**_____ **Page __5__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
241		
242		
243		
244		
245		
246		
247		
248		
249		
250		
251		
252		
253		
254		
255		
256		
257		
258		
259		
260		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
261		
262		
263		
264		
265		
266		
267		
268		
269		
270		
271		
272		
273		
274		
275		
276		
277		
278		
279		
280		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
281		
282		
283		
284		
285		
286		
287		
288		
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293		
294		
295		
296		
297		
298		
299		
300		

ole:_____ Page ____ of ___

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled

BOX LOG

Dan Man PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		581345	6977110		144.17

ZONE: DM Zone B

SECTION:

HOLE: DM-07-11

CLAIM:

Contractor: ELITE

Drill:

Core size: BTW

Casing depth: _____ (m) in / out

Drilling dates:

Geology logged by:

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	0	-50	compass	144.17	0		Acid

TARGET:

SUMMARY

From (m)	To (m)	Interval	Unit	Comments

SAMPLES

Numbers:

Total:

Batch:

Date Sent:

Certificate:

COMMENTS

Hole:___DM-07-11_____ Logger Name:_NICHOLAS JOYCE_____ Date:_AUG 20, 2011_____ Page _1_ of ____

Sub-Interval	INTERVAL From (m)	INTERVAL To (m)	LITHOLOGY Unit	LITHOLOGY Modifier	LITHOLOGY Texture	ALTERATION			Oxidation	ALTERATION Other Type	ALTERATION Other Intensity	STRUC. Type	STRUC. Attitude (tca)		STRUC. Density (frequency/m	MINERALS			MINERALS Other Type	MINERALS Other Intensity	Photo	DETAILED DESCRIPTION
	0.00	12.52	Rubble	BN	MD	OXY					s	C.BRXX				QZ	FD	AK				Strongly oxidized rubble from two different rock types. Brown, silicified ankerite-matrix breccia with sub-rounded 0.2-0.4cm clasts. Quartz-feldspar gniessic rubble; strong potassic alteration, stockwork ankerite veinlets, limonitic fractures and minor manganese on fracture surfaces. minor silvery-green mica and minor limonitic crackle brecciation.
						POT					s	BRXX				LIM	Gn-Mica					
	12.52	12.75	GNE	OR	MD	OXY					I	C.BRXX				QZ	FD	AK				Blocky Quartz eyelet-Feldspar augen Gniess; strong potassic alteration, intensely oxidized, stockwork ankerite veinlets, limonitic fractures and minor manganese on fracture surfaces. minor silvery-green mica and minor limonitic crackle brecciation.
						POT					I					LIM	Gn-Mica					
	12.75	13.08	SCH	GY	LT	BLE					s	FO	45?			QZ	FD	AK				Strongly bleached and moderately silicified, quartz-feldspar-muscovite schist with stockwork ankerite and limonite veinlets. Blocky rubble. Contacts obscured.
						SIL					m					LIM						
	13.08	31.00	GNE	OR	MD	OXY					m	C.BRXX				QZ	FD	AK				Blocky Quartz eyelet-Feldspar augen Gniess; moderate oxidation and potassic alteration, stockwork ankerite veinlets, limonitic fractures and minor manganese on fracture surfaces. minor silvery-green mica and minor limonitic crackle brecciation. Blocky-rubble.
						POT					m					LIM	Gn-Mica					13.08-15.30m, rubble
																						15.30-15.65m, siliceous, strongly oxidized, sandy gravel. <0.1-0.5cm clasts, minor clays mixed in.
																						15.65-21.57m, blocky
																						21.57-23.77m, rubble
																						23.77-25.37m, blocky
						CLAY					s											25.37-25.52m, weakly oxidized rubble with strong clay alteration.
												FO	30									25.52-31.00m, weakly oxidized blocky rubble.
	31.00	31.31	SCH	GY	LT	BLE					s	FX	30, 60			QZ	FD	AK				Strongly bleached and moderately silicified, quartz-feldspar-muscovite schist with stockwork ankerite and limonite veinlets. Blocky rubble. Upper contact distinct. Lower contact obscured by rubble. Highly fractured.
						SIL					m	CN	40			LIM						

GEOLOGY LOG

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

31.31	35.17	GNE	OR	MD	OXY					m	C.BRXX				QZ	FD	AK				Blocky Quartz eyelet-Feldspar augen Gniess; moderate oxidation and potassic alteration, stockwork ankerite veinlets, limonitic fractures and minor manganese on fracture surfaces. minor silvery-green mica and minor limonitic crackle brecciation. Minor clays on fracture surfaces. Minor quartz flooding. Blocky-rubble.
					POT					m					LIM	Gn-Mica					
																					32.75m, low-angle quartz-ankerite flood over 15cm.
																					34.10-34.32m, rounded gravel. Probably from drilling, not from geology.
35.17	36.16	SCH	GY	LT	BLE					s					QZ	FD	AK				Strongly bleached and moderately silicified, quartz-feldspar-muscovite schist. Blocky rubble. Contacts obscured. Upper contact obscured by rubble. Lower contact a rough estimate at best. Highly fractured. Strong clay-fracture infill. Weakly limonitic fractures. Cryptic rusted pyrite. trace black mineral in fractures; manganese?
					SIL					m	CN	75?			LIM			PY	ct		
36.16	38.82	CLAY	BG	LT	CLAY					>75%					CLAY	QZ	FD				Intense clay alteration to felsic rock.
		BRXX																			
																					36.16-38.00m, soft beige-orange clay with minor sub-angular felsic clasts, <0.3cm, held in suspension.
																					38.00-38.50m, blocky clay-dominated rubble. Transition between soft clay suspension and competent hard clay-breccia phase.
																					38.50-38.85m, beige-orange competent clay-matrix-dominated, monomictic-felsic-clast breccia. Strongly oxidized. Trace black microfractures.
38.85	41.05	GNE	OR	MD	OXY					m	C.BRXX				QZ	FD	AK				Blocky Quartz eyelet-Feldspar augen Gniess; moderate oxidation and potassic alteration, stockwork ankerite veinlets, limonitic fractures and minor manganese on fracture surfaces. minor silvery-green mica and minor limonitic crackle brecciation. Minor clays on fracture surfaces. Minor quartz flooding. Blocky-rubble.
					POT					m					LIM	Gn-Mica					
																					38.85-40.88m, clay-rich gniessic rubble. Strong silvery-green mica.
											FO	30									40.88-41.05m, strong ankerite stockwork fractures and veinlets. Minor pitting. Blocky rubble.
41.05	45.30	SCH	GY	LT	BLE					s	FO	15			QZ	FD	MUS				Strongly bleached and moderately silicified, quartz-feldspar-muscovite schist. Blocky.
					SIL					m											
											VN				QZ	AK					45.11-45.30m, rubbly quartz flood. Strong ankerite veinlets and fractures. Minor manganese on fracture surfaces.
45.30	46.49	MAF	GN	MD	ANK					m					FD	CL	BI				Mafic feldspar porphyry. 0.2cm feldspar augens set in dark green oxidized micaceous groundmass.
					OXY					s											weakly linneated. Rubbly. Minor ankeritic overprinting bleeding out 0.5cm from ankeritic fractures. Minor pitting.

46.49	55.31	SCH	GY	LT	BLE					s					QZ	FD	MUS			Strongly bleached and moderately silicified, quartz-feldspar-muscovite schist. Blocky. Minor ankeritic fractures crosscutting foliation at 45-70 degrees.
					SIL					m	FX	45-70			AK					
55.31	55.46	CLAY	BN	MD	OXY					s	CN	12			CLAY	QZ		PY	t	Oxidized, silicified clay seam. Strongly limonitic. Coarse quartz clasts held in suspension. Minor disseminated rusty pyrite. Minor secondary clear silica microveinlets.
		BRXX									CN	25								
55.46	56.53	SCH	GY	LT	CLAY					s					QZ	FD	MUS			Intensely silicified, quartz-feldspar-muscovite schist. Strongly limonitic fractures, strong clay alteration and strong quartz microveinlets. Rubble.
					SIL					I					LIM					
56.53	57.10	CLAY	BN	MD	OXY					I					CLAY	QZ				Intensely oxidized, clay-rich rubble. Strong presence of manganese on more competent pieces.
		ALT																		
57.10	57.88	SCH	GY	LT	CLAY					w	CN	5			QZ	FD	MUS			Intensely silicified, quartz-feldspar-muscovite schist. Strongly limonitic fractures, weak clay alteration and strong quartz microveinlets. Lengthy low-angle contact with unit below.
					SIL					I					LIM					
57.88	59.35	CLAY	BN	MD	OXY					s	CN	5			CLAY	QZ				Oxidized, silicified clay seam. Strongly limonitic. Coarse 0.3cm quartz clasts held in suspension. Could be a fried porphyry dyke.
		BRXX																		
59.35	60.00	SCH	GY	LT	OXY					m					QZ	FD	MUS			Quartz-feldspar-muscovite schist. Strongly limonitic fractures. Rubble.
															LIM					
60.00	60.25	MAF	GN	MD	ANK					m					FD	CL	BI			Mafic feldspar porphyry. 0.2cm feldspar laths set in dark green oxidized micaceous groundmass.
					OXY					s										Well lfoliated. Rubbly. Minor ankeritic overprinting bleeding out 0.5cm from ankeritic fractures.
60.25	65.90	SCH	GY	LT	OXY					s					QZ	FD	MUS			Quartz-feldspar-muscovite schist. Strongly ankeritic fractures. Manganese on fracture surfaces. Minor vugs on some pieces. Rubble.
															LIM	AK				
											VN									62.59m, moderately fractured quartz flood over 25cm.
65.90	66.72	CLAY	Y-OR-B	LT						c.BRXX					QZ	FD	CLAY			Clast supported clay matrix crackle breccia of an intensely silicified felsic host-rock showing no relict fabric. Minor vugs. 20% matrix.
		BRXX																		
66.72	69.25	MAF	OR-GN	DK	OXY					I	CN	20?			BI	CL	HB			Intensely oxidized mafic rubble. Very poor recovery.
															LIM					
69.25	69.55	SCH	GY	LT	CLAY					ms					QZ	FD	MUS			Quartz-feldspar-muscovite schist. Strong clay alteration. Rubble.

69.55	112.56	CLAY	Y-OR-B	LT						c.BRXX			QZ	FD	CLAY		PY	t	Main structural alteration zone. Clay-matrix breccias and crackle breccias of an intensely silicified felsic host-rock showing no relict fabric. Minor oxidized zones, mafic dykes and trace sulphide and oxide mineralization.
		BRXX															MG	t	
		ZONE															HE	t	
										c.BRXX									69.55-73.10m, matrix supported beige-clay crackle breccia. Trace rusty pyrite in clasts. Trace speckled magnetite in matrix. Minor disseminated blue-black oxide over bottom 50cm.
					ANK				s	c.BRXX			CA						73.10-74.55m, strong ankeritic overprinting to felsic host-rock clasts prior to clay brecciation. Reacts strongly to acid due to pervasive 50-70 degree calcite microveinlets. Strong 10 degree ankeritic fractures. Banded ankeritic overprinting at 50 degrees,. 10% clay matrix.
										FX	10								
										VT	50-70								
					ANK				m							PY	HE	t	74.55-77.10m, 20-60% yellow-beige-grey clay matrix. Moderate ankeritic overprinted bands at 50 degrees. Minor rusty pyrite in clasts. Trace disseminated spicularite. Minor hematitic overprinting over 5cm at 75.56 and 75.68m.
										C.BRXX						PY	HE	w	77.10-89.55m, light-grey clay matrix supported crackle breccia. 2% spicularite, 2% disseminated pyrite, rusty where there is a weak ankeritic overprinting, otherwise shiny and euhedral. Minor low-angle fluid-flow banding.
										CN	20						PY	t	89.55-89.85m, competent host-rock dominated interval. 5% clay in stockwork fractures. Upper contact 20 degrees, lower contact 30 degrees. Trace disseminated pyrite.
										CN	30								
			BG	LT						CN	90								90.50m, 90 degree contact between weakly oxidized upper and unoxidized lower intervals.
			BN	MD						CN	70								90.53m, 70 degree, 1cm band of brown silicified rock showing no relict textures.
			GY	DK	LIM				m	CN	20						PY	t	95.00-95.70m, dark grey aphanitic phylite. Patchy, flowing, limonitic alteration. Trace very fine grained pyrite.
										CN	20								96.00m, whispy dark grey-blue stringers containing very fine grained sulphides.
																			96.14-96.30m, darker grey clay altered rock fragments containing <5% very fine-grained sulphides.
										FO	30								98.60-98.75m, darker grey clay altered rock fragments containing trace very fine-grained sulphides. Relict foliation distinct.
					LIM				m								PY	t	99.97-100.20m, dark grey phylite band at 20 degrees with trace disseminated very fine grained pyrite and moderate mottled limonite alteration.
																			100.20-100.78m, grey clay matrix crackle breccia with trace disseminated pyrite and minor oxidized patches.
																			100.78-102.75m, beige-grey clay matrix crackle breccia with trace disseminated pyrite and minor oxidized patches. Minor grey bands at 50-60 degrees.

				GY	LT					C.BRXX							MG	t	102.75-108.20m, white-grey clay matrix supported crackle breccia. <2% dodecahedral 0.15cm euhedral pyrite mineralization. Minor relict dark grey phylite. Relict quartz clasts are sub-rounded indicating significant fluid transport. Felsic lithic clasts are sub-angular indicating lesser transport or more rapid disintegration. minor silvery metalic mineral, magnetic, with rusty halos embedded in lithic fragments. magnetite?
																	PY	w	
						OXY				m	C.BRXX						MG	t	108.20-109.78m, moderately oxidized clay matrix supported crackle breccia. <2% dodecahedral 0.15cm euhedral pyrite mineralization. Minor relict dark grey phylite. Relict quartz clasts are sub-rounded indicating significant fluid transport. Felsic lithic clasts are sub-angular indicating lesser transport or more rapid disintegration. minor silvery metalic mineral, magnetic, with rusty halos embedded in lithic fragments. magnetite?
																	PY	w	
																			110.06-111.29m, strongly limonitic clay matrix. 25% matrix.
																			111.29-112.56m, minor limonitic matrix. 10% matrix.
						LIM				m	BRXX								111.72-111.80m, secondary breccia. 50% competent clay matrix. Sub-angular clasts show relict limonitic crackle brecciation from previous flux event.
																			Clay brecciation event must have occurred after the limonitic crackle brecciation of the felsic host.
112.56	119.79	Polymicitic				BG-OR					CN	20							Competent hard-clay matrix-supported polymictic secondary breccia. Clasts include:
		Clay BRXX Zone				OXY				m									strongly oxidized clay fragments.
																			limonite-matrix silicified felsic crackle breccias.
																			unbrecciated silicified felsic clasts.
																			light green clasts with weak interal linneations.
																			felsic clasts with strong red hematitic veinlets. One such clasts is 8cm in width.
																			trace dark grey phylite clasts.
																			most clasts are sub-rounded indicating significant fluid flow prior to lithification.
						ANK				s									strong ankeritic overprinting of the matrix (not the lithic fragments) over the bottom 1.5m.
						ANK				I									116.30-116.80m, rubbly with intense coffee-stain ankeritic overprinting and veinlets.
																			116.80-118.05m, increase in clast to clay ratio with a further relative increase in felsic clasts indicating that this interval is relatively closer to the edge of the structural coridor.
																			118.05-118.94m, felsic-clast clay and limonite crackle breccia. Trace rusty dodecahedral pyrite. Minor clay matrix supported breccia patches.
						LIM				I	CN	20							118.94-119.79m, intensely limonitic clay matrix-dominated polymictic clast breccia. Trace black dendritic microveinlets cutting through clay matrix. Lower contact distinct.
119.79	122.27	CLAY	OR-RD	DK		OXY				I									Intensely oxidized clay with minor polymicitc clasts held in suspension.
																			121.31-122.27m, darker red colouration to clay matrix.

122.27	122.57	MAF	OR-GN	DK	OXY					I	FO	45			BI	CL	HB			Intensely oxidized, rubbly mafic dyke. Intensely clay altered. Strong ankeritic overprinting.
					CLAY					I					LIM	AK				
122.57	123.25	QZ	WH-OR		LIM					w	VN				QZ					Weakly limonitic quartz rubble.
123.25	142.52	GNE	RD-BK		HEM					s					FD	BI	HB	CL		Feldspar augen Gniess. 0.2cm feldspar augens and minor quartz eyelets wrapped by mafic micas.
															QZ					
					CLAY					w										123.25-124.73m, Moderately oxidized, strongly hematitic, weakly clay altered and strongly potasically altered feldspar augen gneiss. Rubble.
											VT	70-90			CA	AK	LIM	HEM		124.73-127.59m, strong ankeritic overprinting. Strongly hematitic. 30-60 degree ankerite veinlets. Pervasive calcite veinlets sharing ankeritic pathways or running 70-90 degrees. Patches of intense silicification obliterating relict textures. Interval ends in 15cm limonite-matrix breccia bordred by crackle breccias. Weak clay-matrix crackle brecciation throughout.
											FX	30-60								
											VT				HEM					127.59-134.10m, reduced alterations. 20 degree ankerite with calcite veinlets. Strong folliation parallel reddish hematite veinlets.
					POT					I					LIM					128.45m, 15cm limonite flood with proximal intense potassic alteration.
																				129.12m, 14cm mafic seam.
																				129.38m, 8cm mafic seam.
																				134.10-142.52m, moderately silicified rubble. Weak relict textures. Indistinct feldspar augens. Moderate clay alteration. Weak hematitic and limonitic fractures. Minor calcite veinlets.
																				140.15m, limonite matrix crackle breccia over 10cm.
142.52	144.17	MAF	GN-GY	MD							FO	55			BI	CL	FD			Feldspar augen mafic schist. Minor 20 degree feldspathic microfracture infill.
		SCH																		
					OXY					s										142.65-142.92m, strongly oxidized and intensely clay altered.
					CLAY					I										
					SIL					s										142.13-143.82m, strongly silicified mafic rubble. Strong clay alteration. Unoxidized.
					CLAY					s										
					CLAY					I										143.97-144.17m, intense grey-green clay alteration. Sticky.
144.17	EOH																			144.17m, EOH

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

Hole: DM-01-11 Name: NICHOLAS JOYCE Page _1_ of ___

From (m)	To (m)	Interval (m)	Recovery (m)	RQD (m)	Munsell Colour	Hardness	Weathering	Comments
0.00	11.58	2.46	0					
11.58	14.63	2.62	0.31					
14.63	17.68	3.08	1.01					
17.68	20.73	2.97	0					
20.73	23.77	2.82	1.4					
23.77	26.82	2.62	0.2					
26.82	29.87	2.77	1.02					
29.87	32.92	2.74	0.9					
32.92	35.97	2.75	0.68					
35.97	39.01	2.82	1.37					
39.01	42.06	2.21	0.13					
42.06	45.11	2.58	0.25					
45.11	48.16	2.44	0.16					
46.16	51.21	2.53	0.23					
51.21	54.25	3.08	0.37					
54.25	57.30	2.82	0.61					
57.30	60.35	3.05	0.24					
60.35	63.40	1.7	0					
63.40	66.45	2.27	0.23					
66.45	69.50	1.14	0					
69.50	72.54	2.99	1.93					
72.54	75.60	3.06	0.89					
75.60	78.64	2.72	1.72					
78.64	81.69	2.44	2.21					
81.69	84.73	2.14	1.75					
84.73	87.78	2.73	2.41					
87.78	90.83	2.63	2.3					
90.83	93.88	1.69	0.7					
93.88	96.93	3.02	1					
96.93	99.97	3.03	1.44					
99.97	103.02	3.01	0.85					
103.02	106.07	3.1	0.75					
106.07	109.12	2.45	0.43					
109.12	112.17	2.72	2.19					

GEOTECHNICAL LOG

112.17	115.21	2.98	1.99
115.21	118.26	2.97	1.37
118.26	121.31	2.61	0.58
121.31	124.36	2.26	0.26
124.36	127.41	2.98	1.25
127.41	130.45	2.96	2.9
130.45	133.50	2.94	0.8
133.50	136.55	3.13	0.22
136.55	139.60	3.19	0
139.60	142.65	2.2	0.48
142.65	144.17	1.26	0.18

Hole:_____ **Name:**_____ **Page ___ of ___**

From (m)	To (m)	Interval (m)	Recovery (m)	Sample Number	Batch	Comments
0.00	8.53			K975342		
8.53	12.52			K975343		
12.52	14.63			K975344		
14.63	17.68			K975345		
17.68	20.73			K975346		
20.73	23.77			K975347		
23.77	26.82			K975348		
26.82	29.87			K975349		
29.87	32.92			K975350		
32.92	35.17			K976901		
35.17	36.16			K976902		
CDN-Me-12				K976903		
36.16	38.85			K976904		
38.85	42.06			K976905		
42.06	45.11			K976906		
45.11	48.40			K976907		
48.40	51.21			K976908		
51.21	55.31			K976909		
55.31	56.53			K976910		
56.53	57.10			K976911		

SAMPLE LOG

Hole:_____ **Date:**_____ **Page:**_____ **of** _____

DENSITY LOG

Depth (m)	Unit	Texture	ALTERATION		MINERALS					Length (cm)	Diameter (cm)	Weight in Air (g)	Weight in Water (g)	DESCRIPTION
			Type	Conc.	%	%	%	Other	%					

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Hole:_____ **Name:**_____ **Page** __1__ **of**____

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10	0.99	
11	1.18	
12	0.53	
13	0.86	
14	0.43	
15	0.36	
16	0.28	
17	0.24	
18	0.43	
19	1.14	
20	0.67	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
21	0.24	
22	0.22	
23	0.36	
24	0.34	
25	0.43	
26	0.57	
27	0.32	
28	0.61	
29	0.51	
30	0.38	
31	1.86	
32	3.15	
33	4.07	
34	2.39	
35	1.57	
36	0.51	
37	0.84	
38	0.22	
39	1.02	
40	0.24	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
41	3.58	
42	5.88	
43	4.71	
44	1.78	
45	0.53	
46	1.06	
47	1.9	
48	2.58	
49	5.71	
50	2.19	
51	3.95	
52	2.66	
53	6.33	
54	0.77	
55	0.73	
56	0.24	
57	2.31	
58	1.68	
59	0.94	
60	1.35	

Hole:_____ **Name:**_____ **Page __2__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
61	0.88	
62	0.35	
63	0.65	
64	0.24	
65	0.53	
66	0.84	
67	0.3	
68	0.53	
69	0.24	
70	1.2	
71	0.61	
72	0.36	
73	0.75	
74	1.06	
75	0.25	
76	0.16	
77	0.82	
78	1.57	
79	0.34	
80	1.74	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
81	0.3	
82	1.45	
83	1.06	
84	0.94	
85	1.27	
86	1.18	
87	-0.55	
88	0.69	
89	1.02	
90	1	
91	0.9	
92	0.63	
93	0.75	
94	1.43	
95	3.5	
96	0.57	
97	0.3	
98	5.49	
99	11.7	
100	0.71	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
101	2.11	
102	1.08	
103	0.73	
104	0.4	
105	0.2	
106	0.55	
107	0.69	
108	7.6	
109	5.76	
110	2.68	
111	0.73	
112	1.64	
113	1.39	
114	2.17	
115	3.42	
116	3.23	
117	1.16	
118	1.88	
119	0.88	
120	0.45	

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
121	1.14	
122	0.47	
123	0.34	
124	1.25	
125	0.92	
126	1.59	
127	2.13	
128	0.67	
129	2.17	
130	1.31	
131	0.77	
132	0.22	
133	0.9	
134	1.94	
135	1.25	
136	0.61	
137	2.66	
138	0.36	
139	0.24	
140	0.02	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
141	1.57	
142	0.06	
143	0.57	
144	0.49	
145		
146		
147		
148		
149		
150		
151		
152		
153		
154		
155		
156		
157		
158		
159		
160		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
161		
162		
163		
164		
165		
166		
167		
168		
169		
170		
171		
172		
173		
174		
175		
176		
177		
178		
179		
180		

ole:_____ Page ____ of ___

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled

BOX LOG

Dan Man PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		580522	6977170		69.49

ZONE: DM-Zone D

SECTION:

HOLE: DM-08-11

CLAIM:

Contractor: ELITE

Drill:

Core size: BTW

Casing depth: _____ (m) in / out

Drilling dates: AUG 17- AUG 18, 2011

Geology logged by: Nicholas Joyce

TARGET: Gold in soil anomaly on airphoto lineament

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	40	-50	compass	69.49	0	-44	ACID

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0.00	20.89		SCH	
20.89	21.15		QFP	
21.15	29.87		C.BRXX SCH	
29.87	30.34		MAF Sill	
30.34	37.59		C.BRXX SCH	
37.59	42.06		SCH	
42.06	51.91		C.BRXX SCH	
51.91	54.87		CLAY BRXX	Weak sulphide mineralization within matrix.
54.87	60.00		C.BRXX SCH	
60.00	69.49		GNE	

SAMPLES

Numbers:

Total:

Batch:

Date Sent:

Certificate:

COMMENTS

Hole:___DM-08-11_____ Logger Name:_NICHOLAS JOYCE_____ Date:_AUGUST 18, 2011_____ Page _1_ of ____

GEOLOGY LOG

Sub-Interval	INTERVAL From (m)	INTERVAL To (m)	LITHOLOGY Unit	LITHOLOGY Modifier	LITHOLOGY Texture	ALTERATION			Oxidation	ALTERATION Other Type	ALTERATION Other Intensity	STRUC. Type	STRUC. Attitude (tca)	STRUC.	STRUC. Density (frequency/m	MINERALS			MINERALS Other Type	MINERALS Other Intensity	Photo	DETAILED DESCRIPTION
	0.00	20.89	SCH	GY	LT	SIL					m-s	FX				QZ	FD	MUS				Quartz-Feldspar-Muscovite schist with obliterated relict textures due to significant silicification and potassic alteration. Moderate ankeritic fractures at 10, 35 and 60 degrees. Manganese on fracture surfaces. Moderately pervasive 45 degree clear silica microveinlets.
						POT					s											
						ANK					m	FX	15									8.53-9.44m, intense silicification and minor ankeritic overprinting. 15 degree drusy limonitic fracture at 9.00m with proximal 15 and 60 degree ankeritic fractures.
						BLE					I											19.60-20.89m, strong ankeritic overprinting bleeding out of moderately pervasive ankeritic fractures. Weak limonitic crackle breccia. Intense silicification. Interval ends in a 30cm interval of intensely bleached, texturally destroyed rock.
	20.89	21.15	QFP	GN-BL	LT	ANK					s					QZ	FD					Pale green-blue Quartz-Feldspar Porphyry Dyke. 0.1cm primarily feldspathic augens set in an aphanitic groundmass. Cryptic rusty pyrite cubes set in groundmass. Strong ankeritic overprinting bleeding out of moderate ankeritic fractures at 25, 60 and 75 degrees. contacts obscured by intense silicification and textural destruction as well as similar mineralogical compositions between units. lower contact may be at 60 degrees.
			DYKE																			
	21.15	29.87	SCH	Y-OR-B	LT	POT					I					QZ	FD	LIM				Clay matrix crackle breccia of texturally obliterated, felsic schist? wall rock. Beige-orange clay matrix 10-30% of unit with high local variability. Banded oxidized clays at 50 degrees.
			CLAY			CLAY					s					CLAY						
			BRXX			SIL					m											
						OXY					w											26.00-26.60m, 80% beige-orange clay matrix crackle breccia.
																						26.60-28.75m, 5% unoxidized clay matrix crackle breccia.
						OXY					w											28.75-29.77m, 10% weakly oxidized beige-orange clay matrix.
	29.77	30.34	MAF	OR-GN	DK	OXY					I	FO	80?			BI	CL	FD				Intensely oxidized mafic sill with feldspars altered to clay. Schistose texture. Relict foliation appears to run at 80 degrees.
																						Contacts obscured by rubble and clay alteration.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

30.34	37.59	SCH	Y-OR-B	LT	POT					I					QZ	FD	LIM				Clay matrix crackle breccia of texturally obliterated, felsic schist? wall rock. Beige-orange clay matrix 10-30% of unit with high local variability. Banded oxidized clays at 50 degrees.
		CLAY			CLAY					s					CLAY						
		C.BRXX			SIL					m											
																					30.34-30.38m, clay-rich rubble.
			BG		OXY					w	FX	30-50									30.38-35.20m, 10% beige-clay matrix crackle breccia. Weakly oxidized fractures running 30-50 degrees.
			BG		POT					I											35.20-35.97m, Rubbly crackle breccia with up to 40% clay-matrix composition. Relict schist appears to have undergone intense potassic-argillic alteration.
			GY		OXY					t	FX										35.97-36.20m, 10% grey-clay matrix crackle breccia. Weakly oxidized fractures.
		BRXX	OR		OXY					m	CN	30									36.20-36.40m, moderately oxidized becciated fluid conduit composed of 40% oxidized clay matrix and 60% monomictic, angular felsic lithic clasts.
			GY	LT	OXY					t											36.40-37.59m, 10% grey clay matrix crackle breccia. Trace manganese on fracture surfaces. Interval ends in 5cm of moderate oxidation.
37.59	42.06	SCH	GY-OR	LT	OXY					w	FO	60									Quartz-Feldspar-Muscovite schist with largely obliterated relict textures due to significant silicification and potassic alteration. Trace silvery-green mica serves as a folliation indicator. Sericite? Trace dendritic manganese on fracture surfaces. Trace rusty pyrite cubes <0.1cm.
					CLAY					w											Blocky with rubble patches.
42.06	51.91	SCH	Y-OR-B	LT	POT					I					QZ	FD	LIM				Clay matrix crackle breccia of texturally obliterated, felsic schist? wall rock. 10-15% matrix. Minor quartz flooding. Weak oxidation.
		CLAY			CLAY					s					CLAY						
		C.BRXX			SIL					m											
					OXY					w											
					CLAY					I	CN	30	40					PY	0		45.11-45.38m, White-Grey, blueish speckled, textureally destroyed, unoxidized clay dominated interval with minor suspended quartz grains. 3% 0.1-0.2cm blueish tinged fine-grained pyrite agglomerations. Oxidized upper and lower contacts at 30 and 40 degrees respectively.
					CLAY					I								PY	0		47.54-47.77m, Blocky, white-Grey, blueish speckled, textureally destroyed, unoxidized clay dominated interval with minor suspended quartz grains. 3% 0.1-0.2cm blueish tinged fine-grained pyrite agglomerations. Contacts indistinct.
																					47.77-51.91m, Blocky, weakly oxidized interval with minor limonitic pitting. Locally variable 5-15% clay matrix. Relict foliation 40 degrees.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

51.91	54.87	Mineralize	WH	LT	BLE					I	CN	15	15		CLAY	QZ		PY	1-3%		Intensely clay-crackle brecciated interval with clay matrix grading down from 30% to 10% of rock volume. 1-3% fine-grained blueish-tinged 0.2cm agglomerations of pyrite set in clay matrix. Cryptic rusty pyrite <0.1cm cubes set in brecciated clasts. Weakly oxidized bottom 15cm.
		Clay																			
		BRXX																			
54.87	60.00	SCH	Y-OR-B	LT	POT					I	FO	50			QZ	FD	LIM				Clay matrix crackle breccia of texturally obliterated, felsic schist? wall rock. 5-15% matrix. Minor quartz flooding. Weak oxidation.
		CLAY			CLAY					s					CLAY						
		C.BRXX			SIL					m											
					OXY					w											
					POT					m								PY	t		54.84-56.67m, minor potassically altered 0.3cm feldspar augens. 5% beige-orange clay matrix. Trace rusty pyrite in matrix.
					OXY					s								PY	0		56.67-57.45m, 30% orange-beige oxidized clay matrix. 2% rusty pyrite from 56.90-57.20m.
					OXY					I								PY	0		57.45m, 20cm intense clay alteration. Stockwork ankerite veinlets. 3% rusty fine-grained pyrite. Interval ends in 3cm intensely oxidized and clay altered mafic band. Strong 20 degree fractures.
					OXY					I								PY	0		57.65m, 5cm orange oxidized clay with dendritic ankerite veinlets, 4% rusty pyrite in '0.1cm cubes and minor pits.
																					57.70-59.55m, strongly oxidized, completely clay altered rock. Trace manganese and cryptic rusty pyrite. Grades into clay-rich gouge over bottom 30cm.
											CN	60									59.55-60.00m, strongly clay altered, intensely oxidized interval with moderate coffee-stain type ankeritic veinlets. Minor maganese. Relict textures obliterated. Ends in 5cm oxidized clay seam. Lower contact distinct.
60.00	69.49	GNE	GY	LT	SER					s	FO	70									Strongly silicified and sericitic, mottled Quartz-Feldspar Augen Gniess. Weak ankeritic fractures with bleeding out ankeritic staining. Cryptic rusty pyrite.
					SIL					s											
					CLAY					m	FX	5									60.15-60.80m, Blocky with moderate clay alteration. 60.80m, moderate quartz flooding over 20m. Minor 5 degree clay-rich fractures over 1m.
																					65.93m, 5cm bleached interval with green micaceous banding and a 0.6x2cm micaceous bleb with local quartz flooding.
											FX	15									66.10-66.45m, blocky rubble. 15 degree fresh, rough fractures. Strong sericite alteration.
																					66.15m, trace greenish mica and a 5cm patch of weak rusty pyrite dissemination.
					ANK					w											68.01-68.76m, weak ankeritic overprinting. Minor ankeritic fractures and manganese on fracture surfaces. Intensely silicified.
					CLAY					w											69.15m, 10cm of weakly clay altered rubble.
69.49	EOH																				69.49m, EOH

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

Hole: DM-08-11 Name: NICHOLAS JOYCE Page _1_ of ___

From (m)	To (m)	Interval (m)	Recovery (m)	RQD (m)	Munsell Colour	Hardness	Weathering	Comments
0	5.47	0.98	0.4	0.408163				
5.47	8.53	3.18	1.24	0.389937				
8.53	11.58	3.02	1.84	0.609272				
11.58	14.63	3.14	2.35	0.748408				
14.63	17.68	2.99	2.48	0.829431				
17.68	20.73	3.13	2.53	0.808307				
20.73	23.77	2.98	0.6	0.201342				
23.77	26.87	2.88	0.96	0.333333				
26.87	29.87	2.81	1.06	0.377224				
29.87	32.92	2.84	0.85	0.299296				
32.92	35.97	3.24	1.08	0.333333				
35.97	39.01	3.11	1.3	0.418006				
39.01	42.06	3.13	0.92	0.29393				
42.06	45.11	3.02	0.47	0.155629				
45.11	48.16	3.2	0.95	0.296875				
48.16	51.21	3.18	0.28	0.08805				
51.21	54.25	3.2	1.62	0.50625				
54.25	57.3	3.05	1.71	0.560656				
57.3	60.35	2.78	1.21	0.435252				
60.35	63.4	3.05	1.3	0.42623				
63.4	66.45	2.96	1.76	0.594595				
66.45	69.49	3.04	1.37	0.450658				

GEOTECHNICAL LOG

Hole:_____ **Name:**_____ **Page ___ of ___**

From (m)	To (m)	Interval (m)	Recovery (m)	Sample Number	Batch	Comments

Hole:_____ **Date:**_____ **Page:**_____ **of** _____

DENSITY LOG

Depth (m)	Unit	Texture	ALTERATION		MINERALS					Length (cm)	Diameter (cm)	Weight in Air (g)	Weight in Water (g)	DESCRIPTION
			Type	Conc.	%	%	%	Other	%					

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Hole:_____ **Name:**_____ **Page** __1__ **of**____

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
1		
2		
3		
4		
5	1.55	
6	1.02	
7	0.73	
8	0.53	
9	0.73	
10	0.45	
11	1.44	
12	0.59	
13	0.14	
14	0.41	
15	0.08	
16	0.16	
17	0.32	
18	2.21	
19	0.59	
20	0.61	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
21	0.63	
22	0.61	
23	0.32	
24	0.36	
25	0.22	
26	0.47	
27	0.34	
28	0.49	
29	0.26	
30	0.75	
31	0.18	
32	0.3	
33	-0.16	
34	0.28	
35	0.06	
36	0.36	
37	0.04	
38	0.43	
39	0.3	
40	0.22	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
41	0.3	
42	0.28	
43	0.3	
44	0.22	
45	0.45	
46	0.51	
47	-0.06	
48	0.26	
49	0.14	
50	0.47	
51	0.3	
52	0.49	
53	0.18	
54	0.28	
55	0.63	
56	0.16	
57	1	
58	0.91	
59	0.67	
60	1.08	

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
61	0.53	
62	0.34	
63	0.98	
64	0.67	
65	0.45	
66	1.18	
67	0.38	
68	2.25	
69	1.23	
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
101		
102		
103		
104		
105		
106		
107		
108		
109		
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111		
112		
113		
114		
115		
116		
117		
118		
119		
120		

ole:_____ Page ____ of ___

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled

BOX LOG

Dan Man PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		582972	6977671		221.89

ZONE: DM-Zone A

SECTION:

HOLE: DM-09-11

CLAIM:

Contractor: ELITE

Drill:

Core size: BTW

Casing depth: (m) in / out

Drilling dates: AUG 19- AUG 21, 2011

Geology logged by: Nicholas Joyce

TARGET:

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	0	-45	compass		0	-41	ACID

SUMMARY

From (m)	To (m)	Interval	Unit	Comments

SAMPLES

Numbers:

Total:

Batch:

Date Sent:

Certificate:

COMMENTS

Hole:___DM-09-11_____ Logger Name:_NICHOLAS JOYCE_____ Date:_AUGUST 20, 2011_____ Page _1_ of ____

GEOLOGY LOG

Sub-Interval	INTERVAL From (m)	INTERVAL To (m)	LITHOLOGY Unit	LITHOLOGY Modifier	LITHOLOGY Texture	ALTERATION			Oxidation	Other Type	Other Intensity	STRUC. Type	STRUC. Attitude (tca)		STRUC. Density (frequency/m	MINERALS			Other Type	Other Intensity	Photo	DETAILED DESCRIPTION
	0.00	46.69	SCH	GY-GN	MD							FO	50			Bi	QZ	FD				Quartz-Biotite dominated schist. Local variability in composition from 40-80% mafic minerals, except where silicification and or other alterations have drastically reduced the abundance of mafic minerals. Texture varies from well folliated, to fine-grained, to gniessic where minor 0.3cm quartz eyes occur. The unit grades gradually into an gniess of similar mineralogical composition. The unit is cut by minor quartz veins and patches of texturally destructive silicification and weak hematization. Trace oxidation occurs throughout the unit, occasionally along fractures and between mafic mineral grains along foliation planes. Moderate listwanite alteration throughout, manifested in foliation parallel veinlets.
																EP	Cl	HB				
												VN	20,30,40		4/4m	QZ						0-4.79m, Blocky. Minor quartz veining at 40, 30 and 20 degrees. 0.3-1.2cm wide veins, 4/4m. Trace oxidiation on fracture surfaces.
						SIL					I	FX	20									5.59-5.98m, Intense silicification and obliterated relict fabric except for faintly distinguishable foliation. Strong bleaching and weak hematitic overprinting. Mafic minerals drastically reduced to 2%. Foliation parallel contacts are bordered by 0.5cm fractured quartz veinlets. trace limonite on fracture surfaces. fractures parallel to foliation and at 20 degrees.
						HEM					w											
						BLE					s											
						EP					w					LIM						5.98-7.59m, weak epitidotization. 70% mafic. Trace limonite along foliation planes. Strong limonite alteration over the bottom 5cm.
						CLAY					s					LIM						6.37m, 10cm of intense limonite and strong clay alteration.
						SIL					I	FX	20									7.59-9.97m, Intense silicification and obliterated relict fabric except for faintly distinguishable foliation. Strong bleaching and weak hematitic overprinting. Mafic minerals drastically reduced to 2%. Foliation parallel contacts are bordered by 0.5cm fractured quartz veinlets. trace limonite on fracture surfaces. fractures parallel to foliation and at 20 degrees.
						OXY					t					QZ						9.97-10.60m, peppery texture with minor 0.3cm quartz eyelets. Almost gniessic. Trace limonite between foliation layers from the partial oxidation of biotite.
						SIL					I	FO	50									10.60m, 3cm foliation parallel band of intense silicification and moderate hematization.
						HEM					m											
																CLAY						11.00m, 1cm brown, micaceous clay seam.
						OXY					w											11.00-11.35m, weak oxidation.
																						11.23m, 2cm brown, micaceous clay seam.
												VT	55			AK						12.24m, 0.1cm wide ankeritic veinlet crosscutting folliation.
												FX	50			LIST						12.32m, 0.2cm wide listwanite + green mineral fracture crosscutting foliation.
																						12.55m, Blocky over 20cm.
						OXY					w											13.12m, weak oxidation over 10cm.
						SIL					s											14.80-15.00m, strongly silicified and weakly hematitic band. Foliation parallel.
						HEM					w											
																						16.45m, 5cm quartz bleb with strong listwanite infilling and in fractures. 5 x 3cm in core.
																						17.25m, 10cm wide quartz vein. Folliation parallel contacts. Bright red hematitic trace on fracture surfaces.
						SIL					s											17.94m, strong potassic alteration and silicification over 20cm.
						POT					s											
						SIL					m											18.84-19.07m, moderately silicified interval.
						SIL					m	VN				QZ						19.95-20.16m, mottled white and peachy quartz flooding within a 50cm wide moderately silicified interval.
						SIL					m	VN				QZ						21.20-21.30m, mottled white and peachy quartz flooding within a 50cm wide moderately silicified interval.
																						21.84-21.91m, Bull quartz flooding with proximal gniessic texture and quartz eyes.
												FO	50									25.57-27.26m, Intensely silicified interval with trace rusty pyritic 0.1cm cubes. Faint relict foliation. Trace spicularite in fractures.
												FX	60			HEM						
												VN	30									26.82m, 13cm bull quartz vein.
						SIL					I	FX	40						PY	t		26.95-27.26m, moderately oxidized and intensely silicified, peach-coloured interval with trace disseminated rusty pyrite. Trace limonite on 40 degree fractures.

n = none, t= <1%, w = 1-2%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (vmp % for >20%)

						OXY					m											
																						27.53-27.76m, white quartz vein with spicularite coated fractures.
												VN	10			QZ						28.28m, quartz vein showing 0.3 x 0.3 x 1cm rectangular voids. From the weathering out of feldspar phenocrysts?
						SIL					m											28.51-30.60m, moderately silicified interval.
		GNE				SIL	HEM				s											32.33-32.50m, mottled gniessic lense. Strongly silicified an hematitic.
												VT	50									32.92-33.06m, 1cm foliation parallel pinkish feldspar and listwanite veinlet.
												FO	60									33.06m, 5cm listwanite-rich greenish-grey clay seam.
												VT	10									35.97m, the unit starts grading into a gniess. Quartz eyelets becoming more common. 10 degree 0.2cm listwanite veinlet.
												VT	5			LIST						37.54-38.65m, fine-grained schistose texture. Minor listwanite blebs and veinlets at 5 degrees.
																						38.65m, rubble over 10cm.
																						39.40-39.70m, moderately silicified interval.
																QZ	LIST	CL				41.90m, 5cm quartz-listwanite-chlorite flood. Mottled quartz-listanite edge with secondary chlorite-flooded center.
																						42.72-45.11m, moderately silicified interval with distinct foliation parallel contacts at either end.
	46.69	48.51	GNE	GY-GN	MD	SIL					s	FO	55			QZ	FD	BI	MUS			Quartz-Feldspar Augen Gniess with silvery-green mica and biotite-rich lenses. Minor 0.5-1.2cm quartz eyes and feldspar augens. The unit is cut by minor quartz veins and patches of texturally destructive silicification and weak hematization. Trace oxidation occurs throughout the unit, occasionally along fractures and between mafic mineral grains along foliation planes. Moderate listwanite alteration throughout, manifested in foliation parallel veinlets.
												VT	30			Silv.Mica			PY	t		trace paragenetic rusty pyrite cubes, 0.1cm. Trace ankerite veinlets.
	48.51	48.90	CLAY	BG	MD	LIM					s	FO	35			CLA	MN	LIM				Strongly linneated beige clay seam with 0.2cm limonitic laths and trace manganese dendrites. Trace listwanite alteration.
	48.90	65.40	GNE	GY-GN	MD	SIL					s	FO	55			QZ	FD	BI	MUS			Quartz-Feldspar Augen Gniess with silvery-green mica and biotite-rich lenses. Minor 0.5-1.2cm quartz eyes and feldspar augens. The unit is cut by minor quartz veins and patches of texturally destructive silicification and weak hematization. Trace oxidation occurs throughout the unit, occasionally along fractures and between mafic mineral grains along foliation planes. Moderate listwanite alteration throughout, manifested in foliation parallel veinlets. Minor, patchy ankeritic overprinting.
						SIL					l											52.43-52.75m, intensely silicified, strongly oxidized and highly fractured. Minor listwanite alteration and ankeritic fractures.
						OXY					s											
						LIST					m											
						CLAY					l	FX	65									52.75-52.79m, clay seam with ankeritic fractures.
																						54.53-54.65m, strong quartz flooding. Highly fractured. Ankeritic overprinting.
												FX	45-70			HEM						56.22-57.22m, strongly silicified. Weak spicularite-filled fractures towards lower end of interval running between 45 and 70 degrees.
												FO	40			HEM						57.22-57.85m, minor folding with dark blue spicularite veinlets between folliation layers, 0.2cm wide, comprising <2% of interval. Weakly oxidized.
																HEM						58.92m, 0.3cm foliation parallel spicularite veinlet.
												VT	50			HEM						59.25m, 50 degree 0.3cm spicularite veinlet.
																HEM				s		59.47m, dark blue spicularite replacing most minerals other than quartz augens in what appears to be a 5cm wide flood.
						OXY					s											59.75-62.39m, strong, patchy oxidized overprinting and limonitic alteration between foliation. Minor quartz flooding.
						CLAY					l	FX	45-70			CLA	MN	AK				Intense clay alteration. Hard and competent interval. Crosscut by manganese and ankeritic fractures. Foliation parallel, distinct contacts.
						OXY					m-s					LIM						62.75-86.86m, moderate to strong oxidation overprinting relict fabrics.
												VT	35									63.08m, 35 degree ankerite-listwanite veinlet with 1cm ankeritic overprinting bleeding out from fracture. Such bleeding out effect is quite common throughout the oxidized zone.
												VT	70									63.27m, fractured, milky quartz veinlet, 0.6cm wide, crosscut by ankeritic fractures.
						CLAY					w											63.61-63.67m, unoxidized yet weakly clay altered interval micas altered to whispy clays between folliation layers. Strong silicification.
												FX				HEM	QZ					64.53-64.88m, intensely oxidized, listwanite-altered interval. Minor fractured quartz veinlets and trace spicularite in fractures.

65.40	72.91	SCH	GY-GN	MD	OXY					s	FO	50			Bi	QZ	FD					Quartz-Biotite dominated schist. Local variability in composition from 40-80% mafic minerals, except where silicification and or other alterations have drastically reduced the abundance of mafic minerals. Texture varies from well folliated, to fine-grained, to gniessic where minor 0.3cm quartz eyes occur. The unit grades gradually into an gniess of similar mineralogical composition. The unit is cut by minor quartz veins and patches of texturally destructive silicification and weak hematization. Trace oxidation occurs throughout the unit, occasionally along fractures and between mafic mineral grains along foliation planes. Moderate listwanite alteration throughout, manifested in foliation parallel veinlets.
															Silv-Mica							
											c.Brxx											67.09m, 5cm quartz flood. Weak limonitic crackle brecciation.
																						68.83-68.98m, limonitic crackle brecciated quartz flood.
					POT					l								PY	t			70.38-70.66m, weakly oxidized, intensely potassically altered feldspars. Strong presence of silvery-green mica. Trace disseminated pyrite.
											VN	45			LIM							72.46m, 1.6cm limonite band at 45 degrees.
											VT	60						PY	0			72.54m, 3% rusty pyrite in 0.2cm cubes over 5cm. 0.2cm listwanite veinlet at 60 degrees.
		Fault Gouge?																				72.91-74.84m, Rubble. Fault gouge? Intensely oxidized to 73.85m, unoxidized for lower half of sub-interval.
74.84	82.28	GNE	GY-GN	MD	SIL					m	FO	55			QZ	FD	BI	MUS				Quartz-Feldspar Augen Gniess with silvery-green mica and biotite-rich lenses. Minor 0.5-1.2cm quartz eyes and feldspar augens. The unit is cut by minor quartz veins and patches of texturally destructive silicification and weak hematization. Trace oxidation occurs throughout the unit, occasionally along fractures and between mafic mineral grains along foliation planes. Moderate listwanite alteration throughout, manifested in foliation parallel veinlets. Minor, patchy ankeritic overprinting.
					HEM					w												
					LIST					m	FX	20			AK							
																						77.30-77.89m, biotite-rich mafic sill/ lense.
																						79.53-80.29m, biotite-rich mafic sill/ lense.
																		PY	0			81.28m, 0.4cm rusty pyrite cube with proximal 2% rusty pyrite in <0.2cm cubes.
											VT				HEM							81.32-82.07m, biotite-rich mafic sill/ lense cut by 0.1cm reddish hematite veinlet at lower contact.
					BLE					l												82.07m, 5cm intensely bleached subinterval.
82.28	86.86	SCH	GY-GN	MD	OXY					m	FO	50			Bi	QZ	FD					Quartz-Biotite dominated schist. Local variability in composition from 40-80% mafic minerals, except where silicification and or other alterations have drastically reduced the abundance of mafic minerals. Texture varies from well folliated, to fine-grained, to gniessic where minor 0.3cm quartz eyes occur. The unit grades gradually into an gniess of similar mineralogical composition. The unit is cut by minor quartz veins and patches of texturally destructive silicification and weak hematization. Trace oxidation occurs throughout the unit, occasionally along fractures and between mafic mineral grains along foliation planes. Moderate listwanite alteration throughout, manifested in foliation parallel veinlets.
															Silv-Mica							
					OXY					s												82.28-83.91m, blocky, highly fractured and strongly oxidized with two minor patches of quartz rubble at the middle and end of the interval.
					LIM						FX				LIM	AK						84.28m, intense limonite and ankerite fractures over 30cm. Stockwork fracturing.
											FX	25-45			QZ							84.90m, 3cm highly fractured quartz flood with strong limonite and listwanite. Bordered by silvery-green mica over 3cm.
																						86.39m, 2cm beige clay seam at bottom end of 10cm of strongly limonitic, highly fractured interval with obliterated relict textures.
86.86	112.80	GNE			SIL					m					QZ	FD	Silv.Mica					Quartz-Feldspar Augen Gniess with moderate silvery-green mica, cryptic disseminated rusty pyrite, moderate silicification and weak hematization. Largely unoxidized. Trace limonitic fractures. Cut by minor mafic sills.
					HEM					w								PY	c			
																						87.78-89.27m, blocky rubble.
																						89.47-89.72m, crumbly mafic dominated schistose lense with strong silvery mica content.
																						90.45-90.75m, schistose, mafic dominated lense.
																		PY	t			90.75-90.97m, moderately bleached interval with 10 degree ankerite fractures. Moderate listwanite alteration. Trace disseminated fine-grained pyrite with 0.2cm rusty halos.
											FX	50			BI	Silv. Mica						90.97-92.10m, Mafic sill. Moderate quartz flooding and listwanite alteration. Strong silvery mica content. Unoxidized. Mottled schistose-gniessic texture. Trace ankeritic fractures both at 50 degrees and foliation parallel.
											FX											92.10-92.40m, unoxidized,. Trace spicularite in fractures. Strong limonite and ankerite fractures.
											VT	15			HEM							92.66m, 15 degree whispy spicularite veinlet. 0.2cm wide.
											VT	85,80,30			AK	LIM	QZ					92.66-93.30m, intense limonite and ankerite veinlets along with clear silca microveinlets. 85 degree limonite veinlets crosscut 80 degree ankerite veinlets. 85 degree white quartz veinlets crosscut 30 degree limonite and clear silica veinlets.

												FO	60									93.30-95.49m, moderate limonite and ankerite veinlets.
																						94.19m, silvery green mica and biotite seam over 15cm.
												VT				AK						95.49m, curvy, low angle ankerite veinlet with dendritic proximal staining in a 1cm halo.
																						95.49-95.56m, increase in silvery mica content.
					OXY					m		FO	55									95.56-96.00m, moderately oxidized and silicified. 0.4cm foliation parallel quartz veinlets crosscut by 40 degree ankeritic fractures.
												FX	40									
																						97.74-98.87m, blocky interval.
					OXY	CLAY			I	s												98.87-99.97m, strong clay alteration. Intensely oxidized. Minor crackle brecciated quartz flooding. Trace manganese on fracture surfaces. 2cm clay seam at upper contact holding minor quartz clasts in suspension.
					CLAY					w		VN	60			AK	LIM					99.97-100.27m, competent interval with weak clay alteration, stockwork limonite veinlets and ankeritic fractures. Trace manganese on fracture surfaces. Ends in 3cm crackle brecciated quartz vein at 60 degrees. Relict textures obliterated by alterations. moderately silicified.
					CLAY					w		FX	sw			AK	LIM					100.84-101.02m, competent interval with weak clay alteration, stockwork limonite veinlets and ankeritic fractures. Trace manganese on fracture surfaces.
												FX	sw									101.02-102.88m, blocky. Moderate stockwork ankeritic fractures.
												FX	20	40		QZ						102.30-102.63m, moderate ankeritic fractures at 20, 40 degrees. Minor quartz flooding.
					POT					I									PY	0		103.66-103.76m, intense potassic alteration and strongly oxidized and clay altered. 2% disseminated rusty pyrite. Trace manganse on fracture surfaces and trace ankeritic fractures.
					OXY	CLAY				s												
												FX	45	60	90	AK	LIM					104.30-104.45m, strong limonitie veinlets and ankeritic fractures at 45, 60, 90 degrees. Almost crackle brecciating.
												FX	35-60			AK						104.45-108.80m, moderate ankeritic fractures at 35-60 degrees.
												VN	60			LIM	Blk Mineral?					106.19m, 5cm quartz vein with weak limonite and blackened fractures.
					AK					I												108.10m, 10cm intense ankeritic overprinting. Relict textures destroyed giving the interval a mottled texture.
					AK					I												108.00-111.08m, intense ankeritic overprinting. Faint fine-grained relict texture suggests this may be a mafic sill. Moderate ankeritic fractures bleeding out ankeritic staining.
																CLA	AK					110.15m, 20 degree 1cm ankerite and clay filled fracture.
					OXY					t												111.08-112.04m, trace oxidation. Interval ends in 10cm intense ankerite and clear silica veinlets. Moderately silicified. Strong potassic alteration.
					POT					s												
					OXY					m												112.04-112.80m, moderate oxidation. Interval ends in 10cm intense ankerite and clear silica veinlets. Moderately silicified. Strong potassic alteration.
					POT					s		FO	55									
112.80	115.04	QFP?	BL-GY	LT								CN	55			QZ	FD					Light blue-grey aphanitic sill with trace clear quartz clasts/phenocrysts. Probably a quartz-feldspar porphyry. Foliation parallel contacts. White quartz veinlets throughout. Trace 'bleeding' ankeritic fractures. Strong oxidation over bottom 40cm.
												VT	10,30,65,90									
115.04	115.84	GNE			SIL					I		CN	55			QZ	FD	Silv.Mica				Quartz-Feldspar Augen Gniess with moderate silvery-green mica. Relict textures obliterated. Intense limonitic and ankeritic fractures.
					OXY					s												
115.84	116.28	QFP?	BL-GY	LT								CN	55			QZ	FD					Light blue-grey aphanitic sill with trace clear quartz clasts/phenocrysts. Probably a quartz-feldspar porphyry. Foliation parallel contacts. Whispy white feldspar veinlets throughout. Weak oxidation over bottom 10cm.
116.28	116.54	SCH	GY	LT	SIL					I		FX	10	30		QZ	FD					Intensely silicified felsic schist. Limonitic fractures and clear silica veinlets run between 10 and 30 degrees. Cryptic dark mineral in some fractures. Spicularite?
																LIM	HEM?					
116.54	117.33	QFP?	BL-GY	LT								CN	55			QZ	FD					Light blue-grey aphanitic sill with trace clear quartz clasts/phenocrysts overprinted by strong ankerite staining. Probably a quartz-feldspar porphyry.
117.33	133.24	SCH	GY	LT	SIL					m		FO	55			QZ	FD					Moderately silicified felsic schist with minor silvery mica. Cut by minor biotite-quartz and biotite-feldspar dominated mafic sills.
																LIM	Silv. Mica					
					SIL					I		FX	10	30		QZ	FD					117.33-119.21m, Intensely silicified felsic schist. Pervasive limonitic and ankeritic fractures and trace clear silica veinlets at 10 and 35 degrees. Trace spicularite in fractures.
																LIM	HEM					
					SIL					s		VT	55			AK	QZ					119.21-125.21m, strongly silicified with moderate ankeriitic fractures. Minor foliation parallel quartz veinlets. Trace oxidation throughout.
					OXY					t												
																QZ						120.90m, 3cm mottled milky quartz flood.
					LIST					m		VT	5			BI	FD	LIST				125.21-127.12m, well foliated mafic sill. Moderate listwanite alteration with veinlets running at 5 degrees. Strongly oxidized bottom 15cm.
					OXY					s												
					BLE					s						LIST	QZ	BI				125.90-126.29m, strongly bleached, intensely silicified tail end of the mafic sill with trace oxidation. Trace listwanite in fractures.
					SIL					I												
					OXY																	

n = none, t= <1%, tr w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

						OXY					I	VT	cf			AK							129.05-130.28m, Intensely oxidized, dark brown-orange, porous and burnt-looking interval. Intense coffee-stain type ankerite veinlets. Possibly an altered mafic sill.
																							129.67-130.28m, oxidized rubble.
						OXY					I												130.28-132.80m, Intensely oxidized schist showing minimal relict textures. Minor pitting. Trace ankeritic fractures and coffee-stain veinlets.
																							130.69-130.83m, rubble.
																							132.06-132.80m, rubble.
						POT					I												132.80-133.24m, intensely potassically altered felsic schist. Grades down from strongly oxidized to only trace oxidation.
						OXY					s-t												
												BRXX				CLAY							133.24-133.32m, unconsolidated clay matrix polymictic breccia with quartz and schistose, lithic fragments in suspension.
																							133.32-133.50m, rubble.
	133.50	134.00	QFP	BG-GN	LT	OXY					t	CN	?			QZ	FD						Light greenish beige-grey unit with 0.15cm subhedral quartz phenocrysts set in an aphanitic matrix. Feldspar phenocrysts altered to clay. Minor oxidized pits.
						CLAY					t												
																CLAY							133.50-133.70m, beige clay matrix with rounded QFP clasts in suspension. 50% clay.
	134.00	137.48	SCH	GY	LT	SIL					m					QZ	FD						Moderately silicified felsic schist with minor silvery mica.
																LIM	Silv. Mica						
						POT					s												134.00-134.24m, Blocky rubble. Strong potassic alteration. Trace oxidation.
						OXY					t												
						OXY	LIST				I												134.24-134.79m, intense ankeritic overprinting, intense listwanite alteration. Minor irregular ankerite-listwanite veinlets. Relict textures obscured by alteration.
						OXY					s	FX	45										134.79-137.48m, blocky rubble. Strongly oxidized, trace clay alteration. Trace crackle brecciated quartz floods. Trace ankerite fractures at 45 degrees.
						CLAY					t	C.Brxx			t								
	137.48	142.67	CLAY	GY	MD							C.BRXX				CLA	QZ	FD					Clay-matrix felsic schist crackle breccia. Grey-beige clays compose 5-15% of rock volume. 2% fine-grained pyrite disseminated and in fractures. Cryptic light green staining effect. Reminiscent of similar zones in DM-07-11 and DM-08-11. unoxidized. Reasonably cohesive with some blocky recovery.
			C.BRXX																PY	0			
			ZONE																				
																							137.48-137.70m, medium blue-grey. 85% matrix.
												FX	60	80									137.95-138.12m, trace reddish oxidation of relict clasts. Dark blue-grey fractures at 60 and 80 degrees.
																							140.27-142.65m, 10% beige-dominated clay matrix with only trace blueish grey clay.
												CN	60										142.65-142.72m, strongly oxidized clay seam with minor clasts in suspension. Lower contact foliation parallel.
	142.72	147.08	GNE			SIL					m	FO	60			QZ	FD	Silv.Mica					Quartz-Feldspar Augen Gniess with moderate silvery-green mica, cryptic disseminated rusty pyrite, moderate silicification and strong potassic alteration.
						POT					s												
												FX	5	45		AK							142.70m, moderate ankeritic coffee-staining bleeding out from fractures at 5 and 45 degrees.
												FX	45			AK	QZ						147.08m, minor quartz flooding cut by 45 degree ankeritic fractures.
	147.08	150.60	SCH	GY	LT	SIL					m	FO	50			QZ	FD						Moderately silicified quart-feldspar schist with minor silvery mica. Trace oxidized fractures, trace manganese on fracture surfaces. Blocky patches.
																LIM	Silv. Mica						148.75m, minor crenulations in foliation. Trace light green mica.
																LT GN Mica?							
	150.60	156.25	GNE	GY	MD	SIL					m	FO	50			QZ	FD	Silv.Mica					Quartz-Feldspar Augen Gniess with moderate silvery-green mica, cryptic disseminated rusty pyrite, moderate silicification.
						AK					m												150.60-151.29m, moderate coffee-stain type ankeritic overprinting.
						AK					w												151.29-152.52m, medium grain size. Patchy ankeritic overprinting. Strong whispy, foliation parallel beige clay microveinlets.
						AK					w												154.13-156.25m, distinct quartz-feldspar augens. Weak ankeritic overprinting.
	156.25	159.61	GNE	OR-BG		SIL					I	c.brxx				QZ	FD	LIM					Relict gnissic fabric largely obliterated. Strong limonitic crackle breccia. Trace manganese on fracture surfaces.
			ZONE			OXY					s												
																			HEM	0			156.30-156.40m, 3% rusty hematite blebs.
												C.BRXX				QZ		LIM	HEM	m			156.85-157.50m, 25% quartz veining at 20-30 degrees. Strongly crackle brecciated with limonite and dark blue-grey spicularite in fractures. Trace disseminated spicularite.
												VN	20-30										
																LIST							157.60m, 3cm listwanite bleb.
												FX	60										158.00-159.10m, intense limonitic crackle breccia. Pervasive 60 degree limonitic fractures.
												C.BRXX						LIM					
												FX				LIST							159.50m, moderate listwanite fractures over 10cm.
	159.61	177.07	GNE	GY	MD	SIL					m	FO	50			QZ	FD	Silv.Mica					Quartz-Feldspar Augen Gniess with moderate silvery-green mica, cryptic disseminated rusty pyrite, moderate silicification. Interlayered with peppery textured mafic biotite-feldspar-silvery mica sills.

						OXY					m					Silv. Mica						159.61-160.50m, strong silvery mica, minor quartz flooding. Mottled texture. Moderately oxidized and silicified.
			MAF			OXY					w					BI	FD	Silv.	Mica			160.50-161.65m, peppery Mafic sill. Moderate blebby listwanite. Moderate foliation parallel limonitic fractures. Weak patchy oxidation.
						OXY					w								PY	t		161.65-163.12m, trace <0.2cm pyrite cubes. Weakly oxidized.
												c.brxx							PY	t		163.12-163.72m, 50% quartz flooded. Pale orange limonitic crackle breccia. Contains 2 occurances of 0.3cm rusty pyrite cubes. Strong proximal silvery mica.
												c.brxx							PY	t		163.72-164.04m, moderate limonitic crackle breccia. Trace <0.1-0.2cm pyrite cubes.
																						End Zone of moderate visual interest.
												FX	35	60		Silv. Mica						164.04-164.50m, moderate limonitic fractures at 35 and 60 degrees. Interval grades into a mafic sill with increased silvery mica content.
			MAF			AK					l					BI	FD	Silv.	Mica			164.50-166.55m, peppery mafic sill with 0.3cm feldspar phenocrysts. Patchy textural obliteration and intense ankeritic overprinting.
						OXY					t	VT	70-80			AK	LIM			t		165.55-176.17m, trace coffee-stain type ankerite veinlets and trace limonite veinlets at 70-80 degrees.
												VT	50									170.80m, intense limonite veinlets over 15cm. Foliation parallel.
						CLAY					t											170.95-171.14m, blocky rubble with trace clay alteration.
																						176.00m, moderate quartz flooding over 15cm. Highly fractured. Trace limonite in fractures.
			MAF									FX	45			LIST	QZ	BI	FD			176.17-177.07m, peppery mafic sill. Contacts obscured by strong quartz flooding, limonitic fractures and silvery micas. Trace listwanite blebs and veinlets at 45 degrees.
																Silv. Mica						
						SIL					s	CN	85			QZ	HEM					176.53-176.75m, strongly silicified gneissic subinterval with red speckled hematitic quartz. Moderate limonitic fractures, listwanite blebbing and quartz flooding. Contacts at 85 degrees.
						HEM					m											
177.07	205.76	GNE	GY	MD		SIL					s	FO	50			QZ	FD	Silv.	Mica			Quartz-Feldspar Augen Gniess with moderate silvery-green mica, cryptic disseminated rusty pyrite, strong silicification. Interlayered with peppery textured mafic biotite-feldspar-silvery mica sills.
						HEM					t							BI				
						OXY					t											
						POT					m	FX	5-	20					CLA	t		177.07-178.78m, moderate potassic alteration. Trace 5-20 degree clay filled fractures.
						HEM					m	FX	40-70						LIM	t		178.78-182.98m, trace limonitic fractures crosscutting foliation at 40 to 70 degrees. 0.3cm limonite staining bleeding out from fractures. Moderately hematitic.
												VN	90			QZ		HEM	LIM	m		182.98-183.09m, highly fractured quartz vein. Moderate orange-yellow limonite in 60 degree crosscutting fractures. Cryptic black mineral, spicularite? in fractures.
												FX										
						HEM					s											183.09-183.86m, strongly hematitic with patchy limonitic overprinting.
						LIM					m											
												FX	60		5/5cm		FD					183.66m, 60 degree white feldspar-filled crosscutting fractures.
			MAF			OXY					s	FO	50			BI	FD	QZ				183.86-184.03m, strongly oxidized, peppery mafic sill. Folliated at 50 degrees.
						AK					t	CN	40									190.06-190.83m, trace coffee stain ankeritic overprinting. Lower contact at 40 degrees, crosscutting foliation, the plane of which strikes 180 degrees to that of the relict folliation.
			Fault Gouge									FT	40?			QZ	MN		PY	t		190.83-192.29m, Fault gouge-rich rubble. Strong potassic-argillic alteration and trace disseminated rusty pyrite in blocky bits. 30% gouge. Minor quartz rubble. Trace manganese on fracture surfaces.
																						192.29-192.99m, blocky interval.
			Fault Gouge									FT	?									192.99-197.79m, blocky rubble with 15% fault gouge and clay alteration Manganese on fracture surfaces. Some relict slickenside-like textures on fracture surfaces.
												SS	?									
																						196.60-196.75m, weakly oxidized 50 degree fractures. Moderate ankeritic coffee staining on fracture surfaces.
																						197.79-198.25m, blocky interval.
												FX	sw						LIM			197.93-198.02m, strong limonitic fracturing. Almost crackle brecciating.
																						198.25-198.31m, light grey clay seam with minor 0.2cm quartz clasts held in suspension.
			Fault Gouge			HEM					w											198.31-200.56m, weakly hematitic gniessic rubble 10% fault gouge.
						HEM					w	FX	45	70					LIM			200.56-204.16m, weakly hematitic gniess with trace limonitic fractures at 45 and 70 degrees.
												FX	30						HEM			200.88m, trace blueish red hematitic fractures crosscutting folliation at 30 degrees to core axis.
						SIL					l					QZ			LIM			201.82m, intensely silicified interval. Highly fractured; almost a limonitic crackle breccia.
												c.brxx							LIM			203.37-203.70m, strong limonitic fractures and minor limonitic crackle brecciation.
												VN	60						LIM			203.62m, 1.2cm limonite-matrix clast breccia.
												BRXX										
			Fault Gouge																			204.16-204.50m, gniessic rubble with minor fault gouge.

						OXY					w											204.50-205.76m, weakly oxidized interval.
																						205.44m, 15cm of blocky rubble.
	205.76	221.89	GNE	GY	MD	SIL					s	FO	40			QZ	FD	Silv.Mica				Quartz-Feldspar Augen Gniess with moderate silvery-green mica. Strongly silicified. Cut by several fine-grained biotite-feldspar dominated mafic sills.
						HEM					w							Bl				
																						205.76-215.80m, trace limonite on 40 degree crosscutting fracture surfaces.
												BRXX				QZ						207.48m, 3cm white-quartz matrix, clear-quartz and lithic fragment clast breccia. Proximal whispy white quartz veinlets and one 45 degree ankeritic fracture.
			MAF			LIST					m					LIST	BI	FD				206.75-207.22m, fine-grained mafic sill. Moderate listwanite alteration and minor blebby listwanite.
			MAF			LIST					m						BI	FD				207.48-208.00m, fine-grained mafic sill. Moderate listwanite alteration.
			MAF			LIST					t						BI	FD				209.04-209.70m, fine-grained mafic sill. Trace listwanite alteration.
																						215.00-215.80m, blocky interval.
																						215.80-221.89m, relatively unaltered gniess.
																						218.49m, 40 degree ankeritic fracture bleeding out in a 1cm alteration halo.
	221.89	EOH										FO	40									221.89m, EOH

Hole: DM-09-11 Name: Kory Larsen Page _1_ of _3__

From (m)	To (m)	Interval (m)	Recovery (m)	RQD (m)	Munsell Colour	Hardness	Weathering	Comments
0	5.49	1.94	0.57	0.293814				
5.49	8.53	3.06	1.37	0.447712				
8.53	11.58	3.08	1.13	0.366883				
11.58	14.63	3.02	2.18	0.721854				
14.63	17.68	3	2.51	0.836667				
17.68	20.73	2.91	2.11	0.725086				
20.73	23.77	2.72	1.8	0.661765				
23.77	26.82	2.92	2.2	0.753425				
26.82	29.87	2.93	1.71	0.583618				
29.87	32.92	2.9	1.38	0.475862				
32.92	35.97	2.69	1.76	0.654275				
35.97	39.01	3.13	1.83	0.584665				
39.01	42.06	2.64	1.28	0.484848				
42.06	45.11	2.97	1.9	0.639731				
45.11	48.16	2.71	1.53	0.564576				
48.16	51.21	2.61	1.57	0.601533				
51.21	54.25	3.16	2.12	0.670886				
54.25	57.3	3.15	2.64	0.838095				
57.3	60.35	2.92	1.84	0.630137				
60.35	63.4	3.11	2.81	0.903537				
63.4	66.45	3.11	1.64	0.527331				
66.45	69.49	3.11	1.78	0.572347				
69.49	72.54	2.79	1.78	0.637993				
72.54	75.59	2.97	0.37	0.124579				
75.59	78.64	2.94	1.75	0.595238				
78.64	81.69	3.04	2.57	0.845395				
81.69	84.73	2.92	0.74	0.253425				
84.73	87.78	3.02	1.82	0.602649				
87.78	90.83	3.19	0.93	0.291536				
90.83	93.88	3	2.68	0.893333				
93.88	96.93	3.01	1.05	0.348837				
96.93	99.97	2.74	0.61	0.222628				
99.97	103.02	2.96	1.85	0.625				
103.02	106.07	2.99	0.65	0.217391				

GEOTECHNICAL LOG

106.07	109.12	3.07	1.94	0.631922				
109.12	112.17	2.95	1.61	0.545763				
112.17	115.21	3.12	2.45	0.785256				
115.21	118.26	2.7	1.24	0.459259				
118.26	121.31	3.13	2.53	0.808307				
121.31	124.36	2.55	1.28	0.501961				
124.36	127.41	3.28	2.2	0.670732				
127.41	130.45	2.64	1.52	0.575758				
130.45	133.5	2.97	1.09	0.367003				
133.5	136.55	2.48	0.92	0.370968				
136.55	139.6	3.13	1.4	0.447284				
139.6	142.65	2.16	0.84	0.388889				
142.65	145.69	2.61	1.69	0.64751				
145.69	148.74	3.51	2	0.569801				
148.74	151.79	2.94	2.44	0.829932				
151.79	154.84	2.95	2	0.677966				
154.84	157.89	3.01	1.85	0.614618				
157.89	160.93	3.01	2.7	0.89701				
160.93	163.98	3.07	2.26	0.736156				
163.98	167.03	3.18	1.53	0.481132				
167.03	170.08	2.81	1.62	0.576512				
170.08	173.13	2.71	1.67	0.616236				
173.13	176.17	3.05	1.98	0.64918				
176.17	179.22	3.07	2.51	0.81759				
179.22	182.27	3.1	2.74	0.883871				
182.27	185.31	2.95	2	0.677966				
185.31	188.37	2.91	1.4	0.4811				
188.37	191.41	3.08	1.1	0.357143				
191.41	194.46	2.35	0.11	0.046809				
194.46	197.51	3.03	0.75	0.247525				
197.51	200.56	2.87	0.36	0.125436				
200.56	203.61	2.93	2.15	0.733788				
203.61	206.65	2.99	2.21	0.73913				
206.65	209.7	3.05	2.74	0.898361				
209.7	212.75	2.72	2.1	0.772059				
212.75	215.8	2.73	2.05	0.750916				
215.8	218.85	3.33	3.25	0.975976				
218.85	221.89	2.67	2.23	0.835206				

Hole:_____ **Name:**_____ **Page ___ of ___**

From (m)	To (m)	Interval (m)	Recovery (m)	Sample Number	Batch	Comments

Hole:_____ **Date:**_____ **Page:**_____ **of** _____

DENSITY LOG

Depth (m)	Unit	Texture	ALTERATION		MINERALS					Length (cm)	Diameter (cm)	Weight in Air (g)	Weight in Water (g)	DESCRIPTION
			Type	Conc.	%	%	%	Other	%					

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Hole:_DM-09-11_____ **Name:_Kory Larsen_____** **Page __1__of__3__**

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
1		
2		
3		
4		
5	1.31	
6	3.25	
7	3.42	
8	2.29	
9	3.73	
10	2.17	
11	4.24	
12	2.58	
13	1.5	
14	1.76	
15	2.29	
16	1.12	
17	3.77	
18	2.78	
19	2.5	
20	1.45	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
21	1.14	
22	0.69	
23	0.65	
24	0.88	
25	0.71	
26	0.79	
27	1.14	
28	0.73	
29	0.55	
30	1.08	
31	1.29	
32	0.59	
33	0.52	
34	0.88	
35	0.69	
36	1.47	
37	0.53	
38	1.1	
39	0.55	
40	0.69	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
41	2.5	
42	0.9	
43	0.67	
44	0.49	
45	0.61	
46	0.22	
47	0.82	
48	0.26	
49	0.38	
50	0.63	
51	0.41	
52	0.79	
53	0.98	
54	0.2	
55	0.88	
56	1.61	
57	0.75	
58	0.26	
59	0.34	
60	3.62	

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
61	0.96	
62	1.25	
63	0.59	
64	0.88	
65	0.21	
66	0.57	
67	1.06	
68	0.47	
69	0.47	
70	0.32	
71	1.31	
72	0.34	
73	0.34	
74	0.59	
75	0.45	
76	0.73	
77	2.13	
78	0.45	
79	2.52	
80	2.65	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
81	1.82	
82	0.78	
83	0.32	
84	0.61	
85	0.47	
86	0.2	
87	0.69	
88	0.36	
89	0.71	
90	2	
91	1.53	
92	1.82	
93	0.92	
94	0.94	
95	0.36	
96	1.04	
97	0.28	
98	0.47	
99	0.26	
100	0.32	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
101	0.46	
102	0.57	
103	0.49	
104	1.39	
105	0.32	
106	0.14	
107	0.32	
108	0.36	
109	0.75	
110	0.61	
111	0.2	
112	0.45	
113	0.82	
114	0.96	
115	0.43	
116	0.91	
117	0.75	
118	0.12	
119	0.82	
120	0.16	

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
121	0.71	
122	0.79	
123	0.22	
124	0.12	
125	0.47	
126	2.5	
127	0.24	
128	0.2	
129	0.86	
130	0.41	
131	0.38	
132	0.25	
133	0.32	
134	0.2	
135	0.24	
136	0.3	
137	0.51	
138	0.24	
139	0.28	
140	0.34	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
141	0.14	
142	0.04	
143	0.16	
144	0.57	
145	0.33	
146	0.14	
147	0.45	
148	0.3	
149	0.51	
150	0.18	
151	0.45	
152	0.22	
153	0.41	
154	0.36	
155	0.39	
156	0.18	
157	0.22	
158	1.23	
159	0.43	
160	0.42	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
161	0.77	
162	0.53	
163	0.53	
164	0.2	
165	0.47	
166	0.26	
167	0.2	
168	0.53	
169	0.71	
170	0.57	
171	0.36	
172	1.64	
173	0.3	
174	0.45	
175	0.24	
176	0.34	
177	0.73	
178	0.51	
179	0.1	
180	0.24	

Hole:_____ **Name:**_____ **Page __4__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
181	0.49	
182	0.91	
183	0.45	
184	0.55	
185	0.22	
186	0.43	
187	0.2	
188	1.04	
189	0.34	
190	0.2	
191	0.12	
192	0.34	
193	0.45	
194	0.75	
195	0.3	
196	0.2	
197	0.1	
198	1.28	
199	0.36	
200	0.2	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
201	0.36	
202	0.22	
203	0.38	
204	0.47	
205	0.42	
206	0.37	
207	1.25	
208	1.68	
209	1.31	
210	5	
211	1.28	
212	0.44	
213	0.2	
214	0.38	
215	1.15	
216	1.25	
217	2.48	
218	1.47	
219	0.92	
220	-0.59	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
221	5.24	
222		
223		
224		
225		
226		
227		
228		
229		
230		
231		
232		
233		
234		
235		
236		
237		
238		
239		
240		

ole:_____ Page ____ of ___

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled

BOX LOG

Dan Man PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		581830	6977640		197.51

ZONE: DM-Zone C

SECTION:

HOLE: DM-10-11

CLAIM:

Contractor: ELITE

Drill:

Core size: BTW

Casing depth: _____ (m) in / out

Drilling dates: AUG 21- AUG 24, 2011

Geology logged by: Nicholas Joyce

TARGET:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	0	-45	compass	197.51	0	-37.5	ACID

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments

SAMPLES	
Numbers:	
Total:	
Batch:	
Date Sent:	
Certificate:	

COMMENTS

Hole:___DM-10-11_____ Logger Name:_NICHOLAS JOYCE_____ Date:_AUGUST 27, 2011_____ Page _1_ of ____

GEOLOGY LOG

Sub-Interval	INTERVAL From (m)	INTERVAL To (m)	LITHOLOGY Unit	LITHOLOGY Modifier	LITHOLOGY Texture	ALTERATION			Oxidation	Other Type	Other Intensity	STRUC. Type	Attitude (tca)		Density (frequency/m	MINERALS			Other Type	Other Intensity	Photo	DETAILED DESCRIPTION
	0	38.53	GNE	GY-GN	MD	SIL					m	FO	50-60			Bi	QZ	FD	PY	<1%		Biotite-Quartz Augen gneiss. Moderately silicified with minor layers of unsilified biotite schist. 60% biotite, 30% Quartz, 5% Feldspar, 5% Chlorite and Hornblende, <1% rusty pyrite cubes <0.1cm. Trace pink quartz in minor floods. Moderate listwanite alteration throughout. trace hematite on some fracture surfaces.
						LIST					m					HB	CL					
																QZ						0-3.36m, several blocky pieces of pinky-beige quartz flooded gneiss with minor biotite and muscovite.
												VN	60			QZ						5.30m, 7cm pink-quartz rich band bound on the upper end by a 3cm white quartz vein running parallel to foliation at 60 degrees to core axis.
			SCH																PY	<1%		5.49-5.98m, unsilicified biotite schist. 70% biotite, 15% quartz, 10% feldspar, 5% Chlorite and Hornblende and <1% 0.1cm rusty pyrite. Very similar mineralogical composition to the gneiss.
			SCH																PY	<1%		6.23-6.87m, unsilicified biotite schist. 70% biotite, 15% quartz, 10% feldspar, 5% Chlorite and Hornblende and <1% 0.1cm rusty pyrite. Very similar mineralogical composition to the gneiss.
						SIL					I	VT	5	40		HEM						9.46-10.73m, Intensely silicified interval with trace spicularite veinlets, 0.1cm wide, at 5 and 40 degrees.
						SIL					I	FO	50									9.50-9.56m, Intensely silicified and strongly hematitic band. Foliation parallel.
						HEM					s											
												VN	20			QZ						10.53-11.16m, blocky rubble with minor drusy quartz veins.
												VT	20			LIST						11.58m, 0.2cm listwanite veinlet.
												VN	70			QZ						13.00m, 2cm white quartz vein with a 1.2cm vug.
												VU			1							
												VN	30-70			QZ						14.89-15.38m, strong white and pink quartz flooding and veining between 30 and 70 degrees.
												FX	<5									15.38m, fresh open low-angle fracture.
												VN	85			QZ						17.15m, 3cm highly fractured yet unmineralized pink and white quartz vein.
						SIL					s											19.38-22.80m, strongly silicified interval.
												VN	40			QZ						19.75m, 5cm white quartz vein, moderately fractured. Trace vugs, <0.3cm.
												VU			t							
																QZ			PY	t		19.90-20.10m, white and pink quartz flooding with trace rusty 0.1cm pyrite cubes and minor vugs around the edges of the flood.
						SIL					s											21.59-22.00m,, strongly silicified interval with drusy fractures crisscrossing at 40 and 70 degrees to core axis.
			SCH																PY	<1%		22.80-22.95m, unsilicified biotite schist. 70% biotite, 15% quartz, 10% feldspar, 5% Chlorite and Hornblende and <1% 0.1cm rusty pyrite. Very similar mineralogical composition to the gneiss. Moderately pitted.
												FO	60			MUS						23.42-28.59m, strongly silicified interval with minor muscovite.
																QZ						27.34m, 2-7cm white quartz flood with blocky, angular contacts on all sides.
						SIL					I											28.59-28.83m, Intensely silicified interval. Pinkish tinged. Trace disseminated pyrite almost rusted out leaving 0.2cm orange halos in the quartz.
						SIL					I	FO	60	45	60							29.08-30.64m, Intensely silicified interval. Pinkish tinged. Trace disseminated pyrite almost rusted out leaving 0.2cm orange halos in the quartz. Contacts are foliation parallel at 60 degrees, yet the center of this subinterval show 45 degree folliation at 30.30m, indicating minor folding in the unit, possible causal to the increase in silicification.
												FX	25						HEM	t		30.60m, spicularite coated fracture surface.
						SIL					I	CN	80??									31.23-31.36m, intensely silicified and strongly hematitic interval. Contacts in rubble, possibly at 80 degrees.
						HEM					s											
												FX	40					LIM		t		31.23-32.40m, blocky interval with trace limonitic pits and fracture surfaces.
												FX	40					LIM		t		32.95-33.25m, minor limonitic pitting, trace limonitic fractures and moderately rusty fracture surfaces.
						SIL					m-I	FX	50						HEM	t		33.25-38.34m, vuggy, moderately silicified interval with pinkish, intensely silicified bands. Trace spicularite filled fractures. Trace listwanite over the bottom 30cm of the interval.
						LIST					t	FO	45-55									
												VN	75			QZ						38.34-38.53m, mottled, quartz-flooded interval with moderate limonitic fractures. Interval ends in 6cm quartz vein.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

38.53	46.45	SCH	GY-GN	MD	SIL					m					BI	QZ	FD	MUS				Biotite-Quartz-Feldspar-Muscovite Schist. Intermediate composition.
					BLE					m												
											FX	55	85	40				HEM	t			38.53-41.32m, moderate limonitic fractures at 55 and 85 degrees. Trace spicularite in 85 degree limonitic fractures. Trace light beige feldspar? filled fractures at 40 and 85 degrees. Trace limonitic pitting.
											FX			s				HEM	t			39.30-39.41m, strong limonitic fractures. Trace disseminated hematite.
											VN	45			QZ							40.81m, 3cm quartz vein. Minor limonitic fractures.
											FX	40	75									41.32-42.26m, strong limonitic fractures and moderate limonitic pitting.
											VT	30			LIM	LIST						41.72m, 0.7cm limonite with listwanite veinlet.
																		PY	m			41.85m, 1cm wide band of densely packed 0.4cm rusty pyrite cubes.
					SIL					m-s					EP							42.26-46.45m, mottled, fine-grained interval. Moderate-strongly silicified. Minor bleaching. Relict textures obscured. Patches of strong limonitic microfractures. Trace epidote blebs. Trace dark blue-grey patches.
46.45	69.74	SCH	GY-GN	DK							FO	60			BI	FD	QZ					Peppery biotite schist. 65% biotite, 25%0.2cm feldspars, 5% chlorite, 5% quartz. Patches of gneissic texture. Patchy silicification.
																	CL					
											FX	45										47.01-47.32m, moderate limonitic pits and microfractures at 45 degrees.
											VT	65			QZ	AK	LIM					47.46-47.60m, strong quartz flooding and ankerite veinlets. Trace limonitic fractures in the quartz domain.
											FX	65			AK	LIM	LIST					48.32-48.69m, strong limonite, ankerite and listwanite fractures.
					SIL					l	FO	35			EP							49.00-49.66m, intensely silicified interval. 35 degree foliation suggests silica migration to a fold axis. Trace epidote and hematite. Trace rusty pyrite cubes, <0.1cm.
					HEM					t	CN	30										
					EP					t												
											FO	60										49.66m, 60 degree foliation. Note 25 degree change in foliation over 30cm.
											VN	30			QZ							50.34m, 2cm drusy quartz vein.
																						50.55m, 3cm epidote blebbing.
					SIL					l	FO	60										50.58m, foliation parallel intensely silicified band at 60 degrees. Moderately hematitic.
					HEM					m												
											VT	60						HEM	m			54.49-52.10m, dark grey fine-grained interval. Faint 60 degree lineation. Moderate 0.2cm spicularite veinlets at 60 degrees, off-axis from foliation.
					SIL					s												51.95-52.10m, strongly silicified interval.
					OXY					w								HEM	t			52.10-52.64m, blocky interval grading back into the peppery schist. Moderately fractured. Trace spicularite infill. Weakly oxidized over the bottom 7cm.
					BLE					s	FX							LIM				52.64-55.20m, strongly bleached, moderately silicified. Minor limonitic pits and fractures. Blocky.
					SIL					m												
																						55.20-55.77m, blocky rubble.
					SIL					m	FX	10	60	85			LIM	HEM	t			55.77-56.56m, moderately silicified, strongly bleached interval. Moderate limonitic fractures. Patchy oxidized overprinting. Minor quartz flooding and minor spicularite fracture infill. Trace rusty pyrite.
					BLE					s												
					OXY					w												
		Fault Gouge?			OXY					m-s								MN	m			56.56-57.80m, blocky rubble. Moderate-strong oxidation. 10cm clay altered, strongly oxidized interval at 57.00m. Fault gouge? Minor manganese on fracture surfaces.
					CLAY					m												
					BLE					s	FX	85						HEM	t			57.80-60.35m, strongly bleached, strongly silicified and moderately oxidized interval. Trace spicularite on 85 degree fractures. Zone of moderate interest.
					SIL					s												
					OXY					m												
											FX	5	30		LIM	AK						58.36-58.80m, strong limonitic fractures. Almost crackle-brecciating. Trace coffee-stain ankerite veinlets, 0.2cm wide at 60 degrees.
											VT	60										
					LIM					l												59.50-59.62m, intense limonitic overprinting.
		Quartz Vein									FX	20	60	85				LIM				59.62-59.93m, foliation parallel quartz vein. Strong limonitic fractures, almost crackle-brecciating.
					SIL					l	VN							LIM				59.93-60.35m, intensely silicified. Strong limonite fractures. Two occurances of 1cm microbrecciated limonite veins. Moderate limonitic pits.
					SIL					s								PY	t			60.35-61.15m, peppery biotite schist. Patches of strong silicification. Minor limonitic fractures. Trace hematization and rusty pyrite in the silicified patches.
					SIL					l	FX	40	70	85				HEM	w			61.15-62.97m, intensely silicified, strongly bleached interval. Moderate-strong limonitic fractures. Weak disseminated spicularite.
					BLE					s												
											c.brxx				LIM	QZ	LIST					62.95m, 2cm limonite matrix, quartz clast crackle breccia with strong proximal listwanite.
					CLAY					m	FX						LIST					61.82m, intense limonitic fractures over 10cm. Moderate clay alteration with strong listwanite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

						SIL					I	FO	35						MG	t		62.97-69.74m, intensely silicified, weakly hematitic interval. 35 degree foliation suggests fold axis. Moderate limonitic fractures. Trace speckled magnetite. Moderately magnetic. Minor drusy quartz patches.
						HEM					w											
69.74	96.33	SCH	GN	DK												CL	BI	FD				Fine-grained to peppery, medium grained chlorite-biotite-feldspar schist. 40% chlorite, 30% biotite, 20% 0.2cm feldspars, 10% 0.2cm quartz eyelets.
																QZ						
												VT	70			LIM	LIST					69.89-69.96m, intense limonite and listwanite veinlets.
												VT	70			LIM			HEM	t		70.22-70.29m, intensely silicified interval with strong limonite veinlets and trace spicularite in fractures.
																						70.29-70.35m, strong limonitic pits.
						SIL					I	VT	70						HEM	t		70.89-70.97m, intensely silicified interval with strong epidote and trace hematite. Mottled texture. Trace hematite veinlets at 70 degrees.
						EP					s											
						HEM					t											
												FX	85			QZ	LIST		PY	2%		71.20m, 6cm white quartz flood above 10cm strongly silicified interval with 2% rusty pyrite. Trace listwanite fractures crosscutting the quartz flood.
						LIM					I	FX				LIM						71.91-72.06m, Intense limonitic overprinting. Strong limoniitic fractures.
						SIL					I	FX	50	85		LIM		HEM	PY	t		72.06-72.39m, intensely silicified interval with moderate limonite and spicularite fractures. Trace rusty pyrite.
						SIL					s					LIM		HEM		t		73.75-74.21m, strongly silicified interval. Weakly hematitic. Trace epidote. Trace limonite and hematitic fractures.
						HEM					w											
						EP					t											
																						74.31-74.77m, strong limonite veinlets at 85 degrees. Moderately silicified interval.
																						74.45m, 5cm band of moderate hematization and epidotization.
																						74.57m, banded quartz veins over 10cm at 85 degrees.
		Quartz Vein										VN				QZ		LIM	HEM	t		74.77-75.33m, White Quartz vein. Limonitic fractures, some with spicularite at 70-80 degrees. Minor beige, mottled, limonitic-pitted secondary quartz flooding within the vein. Moderate listwanite and limonite fractures over the perimeter. Mottled contacts at roughly 60 degrees; probably foliation parallel.
												FX	70	80								
						SIL					s	FX	85					LIM	LIST			75.33-77.00m, strong limonitic and moderate listwanite fractures at 85 degrees. Strongly silicified and trace hematitic interval. Obliterated relict textures.
						HEM					t											
												FX	20	85		QZ	MG	HEM	LIM			77.00m, 0.5-1cm wide, 20 degree beige quartz-filled fracture with 10% speckled spicularite and magnetite all crosscutting a 0.5cm, 85 degree limonite + spicularite veinlet. Microbrecciation at intersection.
						SIL					s	VT	85			LIST	LIM		PY	t		77.00-77.49m, minor 0.3cm limonite + listwanite veinlets at 85 degrees. Moderate 0.1cm listwanite veinlets at 85 degrees. Strongly silicified. Trace hematization. Trace rusty pyrite.
						HEM					t											
																						77.49-78.28m, relatively unaltered, fine-grained chlorite-biotite-feldspar schist.
						SIL					s	FX	50	85		LIM	LIST	QZ				78.28-80.72m, strongly silicified, trace hematitic interval with minor limonitic fractures and trace listwanite fractures at 50 and 85 degrees. Minor <1cm beige quartz veinlets at 85 degrees.
												FX	50	85			LIST					80.72-83.67m, trace listwanite fractures.
												FO	50									
												FO	50-70			EP	QZ					83.67-91.85m, medium-grained peppery textured interval. Moderate foliation parallel silicified bands with strong epidote and speckled magnetite. Trace hematitic fractures at 5 and 70 degrees. Trace listwanite fractures at 85 degrees.
												FX	5	70		HEM						
												FX	85			LIST						
												FO	50-35			EP	HEM					91.85-93.54m, intensely silcified interval. Foliation decreases from 50 to 35 degrees. Fold axis? Minor epidote. Trace hematitic veinlets crosscutting foliation at 70 degrees.
												brxx				LIM						93.30m, 1cm limonitic breccia vein.
												VN	50									
																						93.54m, 1cm limonitic breccia vein above 10cm of rubble.
																						93.54-94.22m, foliation increases from 35 to 40 degrees. Minor blotchy quartz flooding. Peppery texture with 0.2cm quartz phenocrysts.
						SIL					I	FX	10			LIM						94.22-94.41m, intensely silicified interval. Moderate limonitic fractures. Trace hematite and epidote.
						HEM					t											
						EP					t											
		Quartz Vein										FX	20	40	85			LIM	HEM	t		94.41-94.85m, white quartz vein with strong limonitic fractures. Trace spicularite in fractures.
												CN	70									
												BRXX				GN mineral? Chlorite?						94.85-95.24m, dark green fine-grained vitreous, massive, mineral matrix megabreccia. Chlorite? Angular, 3cm white quartz vein and up to 10cm beige quartz flooded clasts. Trace limonite and listwanite fractures.
												FX	20									

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

												FX	85			QZ			HEM	t		95.24-95.47m, beige quartz flood with trace rusty pyrite grading into an intensely silicified schist. Trace spicularite fractures.
					SIL					l	FX	45						LIM	t		95.77-96.09m, intensely silicified moderately hematitic interval with trace limonitic fractures at upper end.
					HEM					m	FX	30	70					LIM	m		96.09-96.30m, intensely silicified, beige quartz dominated interval with no relict textures. Minor limonitic fractures.
					LIST					s	CN	40									96.30-96.36m, mottled texture. Strong listwanite alteration. Pepper schistose texture. Lower contact 40 degrees.
	96.36	97.00	GNE	GY	MD	SIL					l	FO	60			QZ	FD	silv.mica				Quartz Augen gneiss. Minor feldspars and silvery mica. 0.6cm quartz augens.
						HEM					m	CN	60									
	97	97.62	SCH	GN	MD							CN	60			CL	BI	FD				Peppery chlorite-biotite-feldspar schist. As seen above.
												FO	55?									
	97.62	101.42	GNE	GY	MD	SIL					l	FO	60			QZ	FD	silv.mica				Quartz Augen gneiss. Minor feldspars and silvery mica. 0.6cm quartz augens.
						HEM					m	CN	60									
						EP					t											
												FX	70	30				LIM	HEM			trace limonite and spicularite filled fractures.
	101.42	106.15	SCH	GN	MD							CN	60			CL	BI	FD				Peppery chlorite-biotite-feldspar schist. Patchy oxidation. Pervasive bands of intense silicification. Strongly silicified throughout. Minor limonitic fractures at 30 degress and minor unmineralized fractures at 40 degrees.
												FO	55?									
												FX	30	40					LIM	m		
												VN	40			QZ						101.42-101.91m, blocky rubble. Strongly oxidized fracture surfaces. Minor 1cm quartz veins.
												FX	70						LIM	t		101.91-102.05m, trace limonitic fractures crosscutting foliation.
					SIL					l	FX	70										102.05-102.31m, moderate limonitic fractures and minor epidote alteration. Intensely silicified.
					EP					m	FO	45										
												FX	20	55					LIST			102.31-102.67m, fine-grained peppery texture. Trace listwanite fractures, foliation parallel and at 20 degrees.
												FO	55									
					EP					t	FX	20	30	60	MG	LIM	LIST	HEM	t			102.67-105.13m, strongly silicified with trace epidote. Trace disseminated magnetite. Moderately magnetic interval. Trace epidote and hematite on fracture surface, 30 degrees, at 103.02m. Trace spicularite in 60 degree fractures. Trace limonite and listwanite in 20 degree fractures.
																						103.95m, 10cm unsilicified peppery textured band.
												VT	40									104.60m, 10cm unsilicified peppery textured band above 0.4cm ankerite and listwanite veinlet.
												VT	40									104.83m, 0.4cm ankerite and listwanite vienlet.
					OXY	LIST				s	FX	sw	30						LIM	l		105.13-106.15m, strongly oxidized and listwanite altered, peppery textured interval. Intense stockwork limonitic fractures as well as unmineralized 30 degree fractures.
	106.15	108.15	GNE	GY-OR	MD	OXY					s	FT?	30?			QZ	FD	Silv.	MN	t		Blocky gneissic rubble with moderate gouge. Fault zone? Trace manganese on fracture surfaces. Strong 30 degree fracturing.
						HEM					w											
	108.15	108.59	SCH	GN	MD							FO	55			CL	BI	FD				Peppery chlorite-biotite-feldspar schist. Minor quartz flooding and 30 degree limonitic +/- listwanite veinlets.
	108.59	113.55	GNE	GY-OR	MD	SIL					l	FO	50			QZ	FD	Silv. Mica				Quartz-Augen Gneiss. 0.6cm quartz augens. Trace pyrite. Trace spicularite in fractures at 5 and 70 degrees to core axis. Trace limonitic fractures at 70 degrees to core axis. Trace hematitzation.
					HEM					t							HEM	PY	t			
																						110.72-112.29m, no hematitic overprinting.
												FX	60						LIST			112.29-112.59m, peppery, gneissic biotite-quartz eyelet lense. Moderately limonitic microfractures, foliation parallel at 60 degrees. Trace listwanite blebs and fractures.
												FO	60									
												VN	70						LIM	l		112.42m, 2cm intensely limonitic band, crosscutting foliation.
																Bi	QZ	Silv. Mica				113.13-113.40m, peppery, gneissic biotite-quartz eyelet lense. Minor listwanite blebs and fractures. Minor silvery mica. Minor quartz flooding
	113.55	139.75	SCH	GY	MD	SIL					s	FO	45-60			Bi	QZ	Silv. Mica				Peppery textured biotite-0.2-0.3cm quartz-feldspar augen schist. Trace disseminated magnetite associated with intensely silicified zones within the unit.
						EP					t					FD	CL					
												VN	50	80		QZ		Silv. Mica				113.59-113.79m, strong quartz veining at 50 and 80 degrees. Strong limonitic fractures at 20, 40 and 80 degrees crosscutting foliation. Strong presense of the silvery-green mica.
												FX	20	40	80				LIM			
												VN	85		3/10cm		QZ					113.93-114.03m, 1cm banded quartz veins.
												VT	85					LIST	HEM	s		114.25-114.39m, strong 0.6cm listwanite and fine-grained spicularite veinlets at 85 degrees.
												VT	~30			LIST						114.39-114.53m, strongly oxidized interval. Minor listwanite veinlets and trace ankeritic fractures. Mottled texture.
												FX	60			AK				t		
												VT	85			LIM	LIST	HEM				114.53-115.21m, intensely silicified interval. Minor limonite + listwanite veinlets, +/- spicularlite at 85 degrees.
												FX	40	85		QZ	LIM					114.92-114.98m, quartz flood crosscut by strong limonitic fracturing.
																						115.10m, 10cm unsilicified lense.

																						120.86-121.25m, peppery, gneissic biotite-quartz eyelet lense. Minor listwanite blebs and fractures. Minor silvery mica.
																						121.88-122.18m, intensely silicified interval with strongly banded epidote and trace rusty pyrite.
																						122.47-126.35m, intensely silicified interval with strongly banded epidote and trace rusty pyrite. Minor quartz druses, <1cm.
												FO	60			EP						122.85m, intensely banded epidote, foliation parallel at 60 degrees. 10 degree fracture with red hematitic coating.
												FX	10			HEM						
																QZ						126.35m, 4cm white quartz flood.
						SIL					I					EP						126.60-127.66m, intensely silicified with minor epidote. Blocky patches.
																						127.57-128.02m, blocky, unsilicified peppery schist.
						SIL					I					EP						128.02-128.11m, intensely silicified with minor epidote.
						SIL					I					EP						128.32-128.42m, intensely silicified with minor epidote.
						OXY					w											130.45-130.47m, blocky, weakly oxidized rubble.
												FX	70						HEM			130.95m, lone 70 degree spicularite filled fracture.
																QZ						132.54m, 8cm white quartz flood. Irregular form.
						SIL					I											136.55-136.74m, intensely silicified interval without any magnetite. Pinkish-tinged.
												VN	50			QZ						136.74m, two, 1cm foliation parallel quartz veins.
												VN	50			QZ			LIM	t		139.75m, 6cm quartz vein with trace limonitic fractures.
	139.85	199.03	GNE	GY-OR	MD	SIL					I	FO	50			QZ	FD	Silv. Mica				Quartz-Augen Gneiss. 0.6cm quartz augens. Trace pyrite. Trace hematitzation. Intensely silicified. Interelayered with peppery-textured mafic biotite-chlorite-feldspar-quartz schistose sills that make up roughly 20% of the unit's volume. Both lithologies contain trace 0.1-0.2cm pyrite cubes. contacts are often gradational or occur over minor quartz veins. While the gneiss is moderately to intensely silicified, the schist is rarely silicified.
						HEM					t							HEM	PY	t		
																CL?	QZ					139.85m, two, 2cm quartz blebs with flooded fine-grained green mineral around the edges. Chlorite?
																QZ			LIM	w		140.07m, 3cm highly fractured, weakly limonitic quartz flood.
												FX	65						LIM	l		140.27m, 1cm intensely limonitic-fractured band. Foliation parallel.
												FX	75-85						LIM	s		141.29m, strong limonitic fractures.
												VN	80			QZ						141.35m, 2cm quartz vein.
												VT	60						LIM			141.61m, 0.5cm limonitic crackle-breccia veinlet. Foliation parallel.
												FO	60									
												c.brxx										
			SCH																			141.61-142.00m, peppery, gneissic biotite-quartz eyelet lense. Minor listwanite blebs and fractures. Minor silvery mica. Minor quartz flooding. Trace 0.2cm pyrite cubes.
						SIL					I	FO	65									142.81m, 1.2cm bands of intensely silicified, moderately hematitic alteration. Foliation parallel.
						HEM					m											
												FX	20			LIST	HEM					142.90m, listwanite fracture. Trace hematite.
						SIL					I											143.97-144.10m, intensely silicified interval.
												FX	30	5	40	LIST	CL	LIM				144.70m, <1cm wide listwanite + chlorite filled fracture at 30 degrees with trace limonite. Proximal limonitic fractures at 5 and 40 degrees.
												VN	40			QZ						145.01m, 3cm foliation parallel clear quartz vein.
						SIL					I	FO	40									145.14-145.30m, intensely silicified interval . Moderately hematitic.
						HEM					m											
						OXY					s	FX	20			HEM	Silv. Mica					145.52-145.65m, strongly oxidized interval with trace quartz flooding, trace spicularite-filled microfractures. Interlayered strong silvery mica and biotite-quartz eyelet textures.
						CLAY					m											148.15m, 10cm minor clay altered blocky rubble.
						SIL					I					Silv. Mica						148.74-150.68m, intensely silicified, moderately hematitic, trace oxidized interval. Trace limonitic fractures with proximal 'bleeding out' effect. Interlayered with silvery-green micaceous lenses.
						HEM					m											
						OXY					t											
						SIL					I	FO	45									150.68-152.19m, intensely silicified, strongly bleached pale whitish coloured gneiss with minor silvery-green mica.
						BLE					s											
												FX	85						HEM	t		151.65m, 0.15cm spicularite-filled fracture.
						SIL					s					QZ						152.46-154.26m, strongly silicified, moderately hematitic interval with minor 2-3cm clear quartz laths.
						HEM					m											
												VN	55			QZ						154.26m, 5cm of banded quartz veining, parallel to foliation.
																						154.26-157.11m, strongly silicified, moderately bleached and trace hematitzed interval with cryptic rusty pyrite and trace clear-silica laths and fracture infill.
												FX	10			QZ		HEM	LIM			154.53m, 10cm highly fractured quartz flood with trace spicularite in 10 degree fractures. Trace limonite in 10 degree fractures.
																QZ	Silv. Mica					155.80-156.06m, mottled pinkish-orange quartz flooding with strong silvery mica.
						SIL					I					QZ			LIM	t		156.88-157.11m, highly fractured quartz flood with trace limonitic fractures, strong proximal bleaching and intense silicification.
						BLE					s											
																						157.29-157.45m, moderately hematitic interval.
						SIL					I	VT	45			SER				t		158.21-158.43m, moderate limonitic overprinting. Trace sericite seam at 45 degrees. Intensely silicified.
						LIM					m											
						OXY					m					LIM				s		159.32-159.51m, moderately oxidized interval. Strong limonitic pitting.

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			SCH			LIST				m	VN	55			Cl	BI	FD				185.32-185.89m, peppery Chlorite-Biotite-Feldspar Schist. Moderate listwanite blebs. Minor quartz veins with proximal strong silification.
			GNE			HEM				m											Moderately hematitic, strongly silicified gneiss.
						SIL				s											
			SCH			LIST				m					Cl	BI	FD				186.23-186.35m, peppery Chlorite-Biotite-Feldspar Schist. Moderate listwanite blebs
			GNE			HEM				s											Strongly hematitic, strongly silicified gneiss with distinct 0.6cm quartz augens.
						SIL				s											
			SCH			SIL				l	VT	50			BI	QZ		AK			188.85-188.95m, mottled biotite-schist with strong ankerite veinlets, foliation-parallel, bound on either end by a 15cm intensely silicified, moderately oxidized halo.
						OXY				m	FO	50									
						SIL				l	FX	50						LIM			189.70-190.56m, intensely silicified, moderately bleached interval with strongly oxidized fracture surfaces. Moderate limonitic fractures, foliation parallel. Blocky.
						BLE				m											
											FX	50						LIM			189.93m, strong limonitic fractures, foliation parallel over 10cm. Almost crackle-brecciating.
											rubble.							LIM	l		190.40m, 10cm intense limonite along foliation planes. Minor crackle-brecciated fragments in rubble.
						SIL				s	VU			t							190.56-192.34m, strongly silicified, moderately bleached and moderately hematitic. Minor limonitic fractures, foliation parallel. Trace 0.2cm vugs throughout.
						HEM				m	FX	50						LIM	m		
						BLE				m	FO	50									
											c.brx	60						LIM			193.29m, 0.6cm limonitic crackle-brecciated band at 60 degrees.
											FO	50									
																					193.75m, moderate limonitic fractures, foliation parallel over 5cm.
			SCH			LIST				m					Cl	BI	FD				195.45m, 15cm peppery Chlorite-Biotite-Feldspar Schist. Moderate listwanite blebs. Trace 0.1cm pyrite cubes.
			GNE			SIL				s								MN	t		195.60-199.03m, strongly silicified, strongly hematitic gneiss. Trace manganese on 20 degree fracture surfaces trace epidote bands. Trace weakly oxidized bands, less than 1cm wide.
						HEM				s											
	199.03	EOH																			199.03m, EOH

Hole: DM-10-11 Name: Kory Larsen Page _1_ of ___

From (m)	To (m)	Interval (m)	Recovery (m)	RQD (m)	Munsell Colour	Hardness	Weathering	Comments
0.00	5.49	2.38	1.29	0.54				
5.49	8.53	2.49	1.01	0.41				
8.53	11.58	2.81	1.46	0.52				
11.58	14.63	3.06	1.92	0.63				
14.63	17.68	3.01	2.49	0.83				
17.68	20.73	2.97	2.40	0.81				
20.73	23.77	3.18	1.85	0.58				
23.77	26.82	2.89	2.53	0.88				
26.82	29.87	3.26	2.83	0.87				
29.87	32.92	2.69	1.12	0.42				
32.92	35.97	2.95	1.80	0.61				
35.97	39.01	2.97	2.54	0.86				
39.01	42.06	3.08	2.37	0.77				
42.06	45.11	3.02	2.32	0.77				
45.11	48.16	3.06	2.83	0.92				
48.16	51.21	2.77	1.46	0.53				
51.21	54.25	1.82	1.05	0.58				
54.25	57.30	3.00	0.87	0.29				
57.30	60.35	2.73	1.72	0.63				
60.35	63.40	3.11	2.05	0.66				
63.40	66.45	2.98	1.36	0.46				
66.45	69.49	2.86	2.30	0.80				
69.49	72.54	3.15	1.94	0.62				
72.54	75.59	2.89	2.37	0.82				
75.59	78.64	2.89	2.33	0.81				
78.64	81.69	3.13	2.07	0.66				
81.69	84.73	3.04	1.77	0.58				
84.73	87.78	3.01	2.25	0.75				
87.78	90.83	3.06	2.44	0.80				
90.83	93.88	2.97	2.46	0.83				
93.88	96.93	3.07	2.97	0.97				
96.93	99.97	3.02	1.67	0.55				
99.97	103.02	2.96	2.35	0.79				
103.02	106.07	2.88	1.74	0.60				

GEOTECHNICAL LOG

106.07	109.12	2.66	1.33	0.50					
109.12	112.17	3.00	2.67	0.89					
112.17	115.21	3.02	2.45	0.81					
115.21	118.26	3.02	2.12	0.70					
118.26	121.31	2.97	2.15	0.72					
121.31	124.36	2.25	1.39	0.62					
124.36	127.41	2.54	1.52	0.60					
127.41	130.45	1.73	0.69	0.40					
130.45	133.50	3.15	2.32	0.74					
133.50	136.55	2.98	2.69	0.90					
136.55	139.60	3.04	2.76	0.91					
139.60	142.65	3.10	2.19	0.71					
142.65	145.69	3.06	1.73	0.57					
145.69	148.74	3.10	1.97	0.64					
148.74	151.79	2.86	2.60	0.91					
151.79	154.84	2.98	2.89	0.97					
154.84	157.89	3.05	2.34	0.77					
157.89	160.93	3.03	2.45	0.81					
160.93	163.98	2.97	1.48	0.50					
163.98	167.03	2.89	1.88	0.65					
167.03	170.08	3.18	2.96	0.93					
170.08	173.13	3.05	1.55	0.51					
173.13	176.17	3.04	1.55	0.51					
176.17	179.22	2.95	2.21	0.75					
179.22	182.27	2.80	1.86	0.66					
182.27	185.31	3.21	2.67	0.83					
185.31	188.37	2.80	2.13	0.76					
188.37	191.41	3.28	2.11	0.64					
191.41	194.46	2.76	1.96	0.71					
194.46	197.51	3.04	2.02	0.66					
197.51	199.03	1.39	1.31	0.94					
EOH									

Hole:_____ **Name:**_____ **Page ___ of ___**

From (m)	To (m)	Interval (m)	Recovery (m)	Sample Number	Batch	Comments

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Hole:__DM-10-11_____ **Name:__Kory Larsen_____** **Page __1__of____**

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
1		
2		
3		
4		
5	0.73	
6	2.29	
7	1.42	
8	1.37	
9	1.20	
10	0.96	
11	0.18	
12	2.29	
13	0.65	
14	2.27	
15	0.55	
16	0.73	
17	1.27	
18	5.80	
19	0.98	
20	0.61	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
21		0.79
22		0.53
23		0.44
24		0.51
25		1.25
26		1.08
27		5.39
28		1.31
29		4.34
30		0.51
31		0.3
32		0.24
33		1.25
34		0.47
35		0.34
36		0.71
37		6.72
38		1.04
39		0.88
40		1.7

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
41	0.47	
42	0.45	
43	0.9	
44	0.84	
45	0.59	
46	1.1	
47	6.51	
48	0.98	
49	1.1	
50	1.06	
51	3.89	
52	0.26	
53	0.55	
54	0.36	
55	0.22	
56	0.33	
57	0.2	
58	0.22	
59	0.47	
60	0.18	

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
61	0.55	
62	1.14	
63	1.70	
64	0.92	
65	0.68	
66	0.22	
67	24.30	
68	14.60	
69	1.10	
70	0.75	
71	1.70	
72	0.67	
73	0.57	
74	0.30	
75	0.51	
76	0.64	
77	0.36	
78	1.76	
79	11.60	
80	0.41	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
81	0.2	
82	0.64	
83	0.71	
84	1.16	
85	1.25	
86	38	
87	9.52	
88	0.72	
89	0.32	
90	0.69	
91	1.14	
92	2.72	
93	1.49	
94	0.82	
95	1.25	
96	0.59	
97	0.67	
98	2.11	
99	0.28	
100	0.99	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
101	0.63	
102	1.53	
103	8.95	
104	5.88	
105	1.82	
106	1.32	
107	0.53	
108	0.18	
109	21	
110	1.82	
111	5.02	
112	0.71	
113	6.12	
114	12.1	
115	2.13	
116	1.11	
117	20.6	
118	24	
119	22.1	
120	29.6	

Hole:_____ **Name:**_____ **Page __3__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
121	2.99	
122	2.13	
123	5.14	
124	6.24	
125	1.41	
126	2.07	
127	2.52	
128	2.01	
129	0.82	
130	1.02	
131	1.40	
132	1.66	
133	0.51	
134	2.09	
135	1.02	
136	5.21	
137	1.90	
138	6.57	
139	8.02	
140	0.53	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
141	0.28	
142	1.29	
143	1.55	
144	0.44	
145	1.08	
146	2.5	
147	2.62	
148	1.55	
149	1.08	
150	2.54	
151	2.33	
152	2.6	
153	1.64	
154	1.53	
155	0.24	
156	1.25	
157	1.57	
158	1.06	
159	1.88	
160	0.14	

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
161	1.33	
162	0.45	
163	0.38	
164	0.08	
165	2.37	
166	1.04	
167	0.98	
168	2.843	
169	4.14	
170	3.97	
171	1.29	
172	3.73	
173	5.14	
174	1.66	
175	3.01	
176	3.19	
177	1.92	
178	2.66	
179	3.42	
180	5.04	

Hole:_____ **Name:**_____ **Page __4__of____**

MAGNETIC SUSCEPTIBILITY LOG

BTW: 4 cm NQ: 5 cm HQ: 6 cm

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
181	2.64	
182	2.37	
183	1.16	
184	1.06	
185	3.62	
186	10.01	
187	8.67	
188	6.41	
189	3.15	
190	1.04	
191	1.16	
192	1.88	
193	1.72	
194	4.28	
195	2.52	
196	1.76	
197	0.38	
198	0.36	
199	1.10	
200		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
201		
202		
203		
204		
205		
206		
207		
208		
209		
210		
211		
212		
213		
214		
215		
216		
217		
218		
219		
220		

Depth (m)	Magnetic Susceptiblity	DESCRIPTION
221		
222		
223		
224		
225		
226		
227		
228		
229		
230		
231		
232		
233		
234		
235		
236		
237		
238		
239		
240		

Hole:_____ **Date:**_____ **Page:**_____ **of** _____

DENSITY LOG

Depth (m)	Unit	Texture	ALTERATION		MINERALS					Length (cm)	Diameter (cm)	Weight in Air (g)	Weight in Water (g)	DESCRIPTION
			Type	Conc.	%	%	%	Other	%					

ole:_____ Page ____ of ___

Box #	From (m)	To (m)	Metal tag made	Metal tag stapled

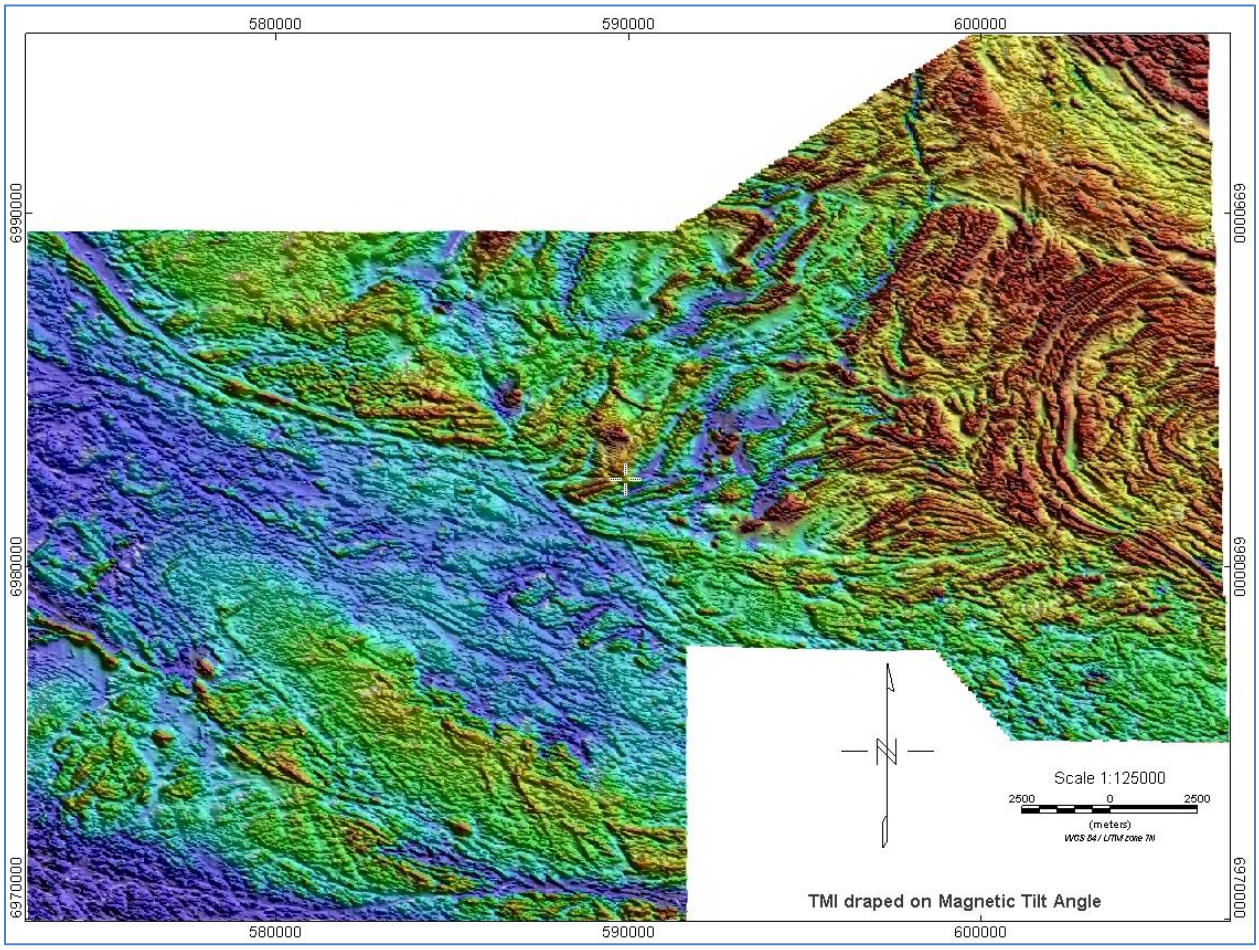
Box #	From (m)	To (m)	Metal tag made	Metal tag stapled

BOX LOG

APPENDIX V

GEOPHYSICAL REPORTS

Processing and Interpretation of the Kirkman Magnetic Data, Yukon



Condor Consulting
Lakewood, CO USA

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Introduction

This report covers the processing and basic interpretation of Precision Geosurvey's Kirkman magnetic data. The survey location and flight line path is seen below in Figure 1. There is a total of 6924 line km of data. The nominal flight line spacing for the data is 100 m. The survey grid covers significant topography straddling the Yukon River with a total relief of 1353 m (Figure 2). Condor processing of the delivered data includes microleveling to remove the residual line level noise left in the delivered data, and magnetic filtering techniques that accentuate magnetic structure on the grid. The primary filtered grids of the total magnetic intensity (TMI) grid (Figure 3) are the first vertical derivative (dZ), the magnetic tilt angle (TA), the analytic signal (AS), and the 2nd vertical derivative (dZ2).

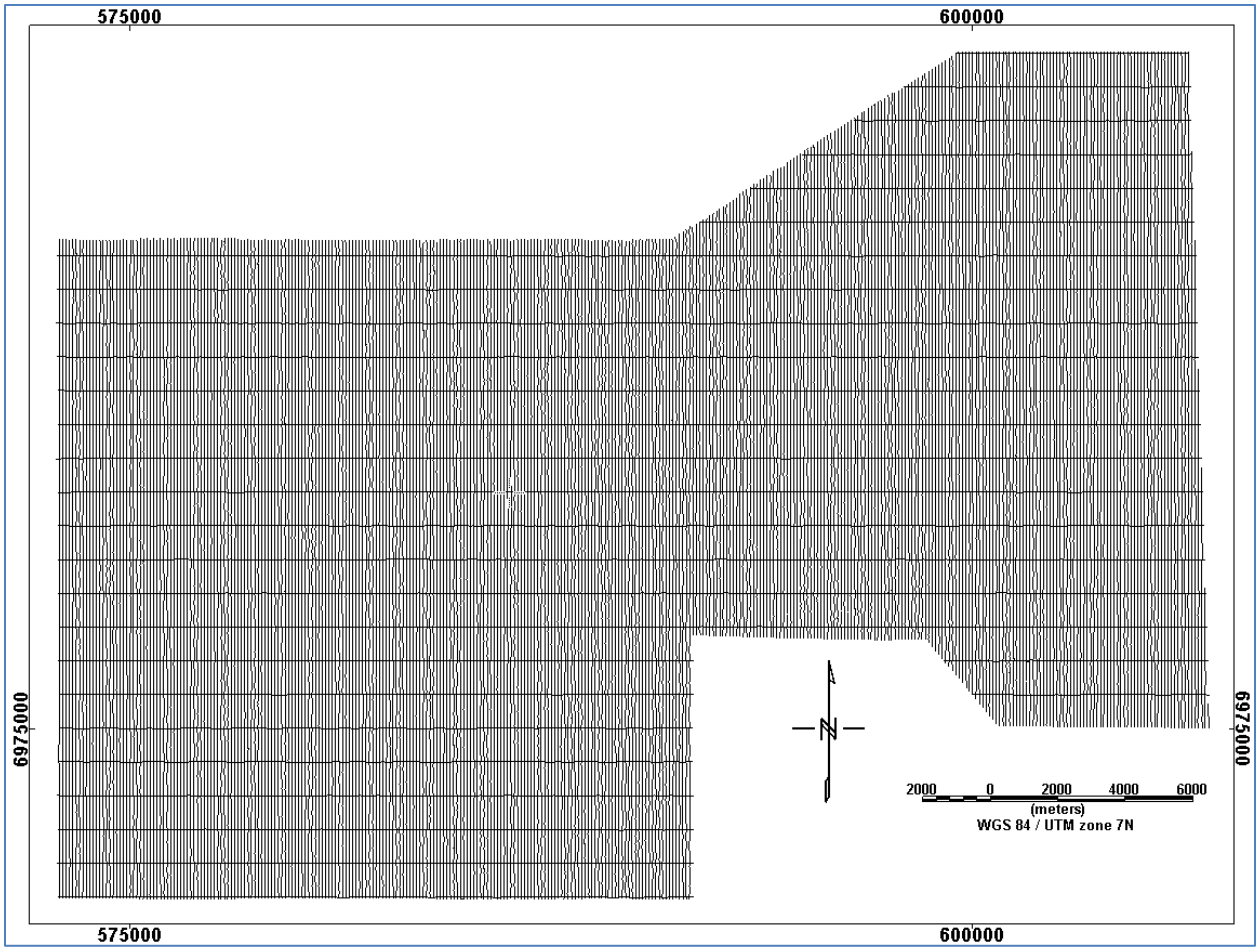


Figure 1. Kirkman grid flight and tie lines, 6924 km total.

The magnetic signatures on the TMI grid are affected by the severe topography of the survey grid, what appear to be folded or kinked magnetic horizons are in some cases linear magnetic horizons that traverse abrupt changes on topography, such as occur across steeply incised “V” shaped drainages. Draping the TMI and filtered magnetic images on the DTM surface aids the interpretation. Figure 5 shows the TMI image draped on the DTM. Magnetic plate modeling of discrete magnetic horizons should provide a better idea of magnetic horizon dip direction, if it were undertaken. Topographic effects can mimic magnetic structure. At site “1” in Figure 5 the V-shaped drainage returns what looks like a “Z” fold, the top of the Z perhaps being an NE pointing erosional flat-iron facet. Rather than a Z

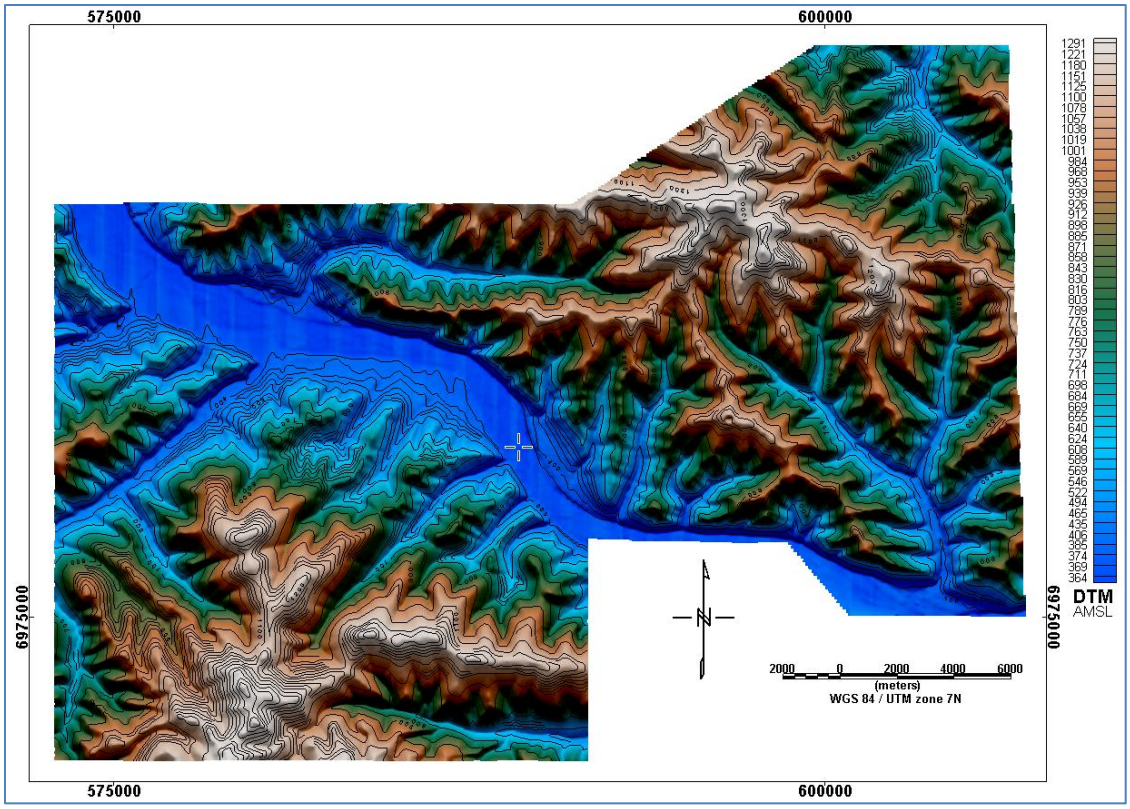


Figure 3. Kirkman DTM grid with 1353 m of relief.

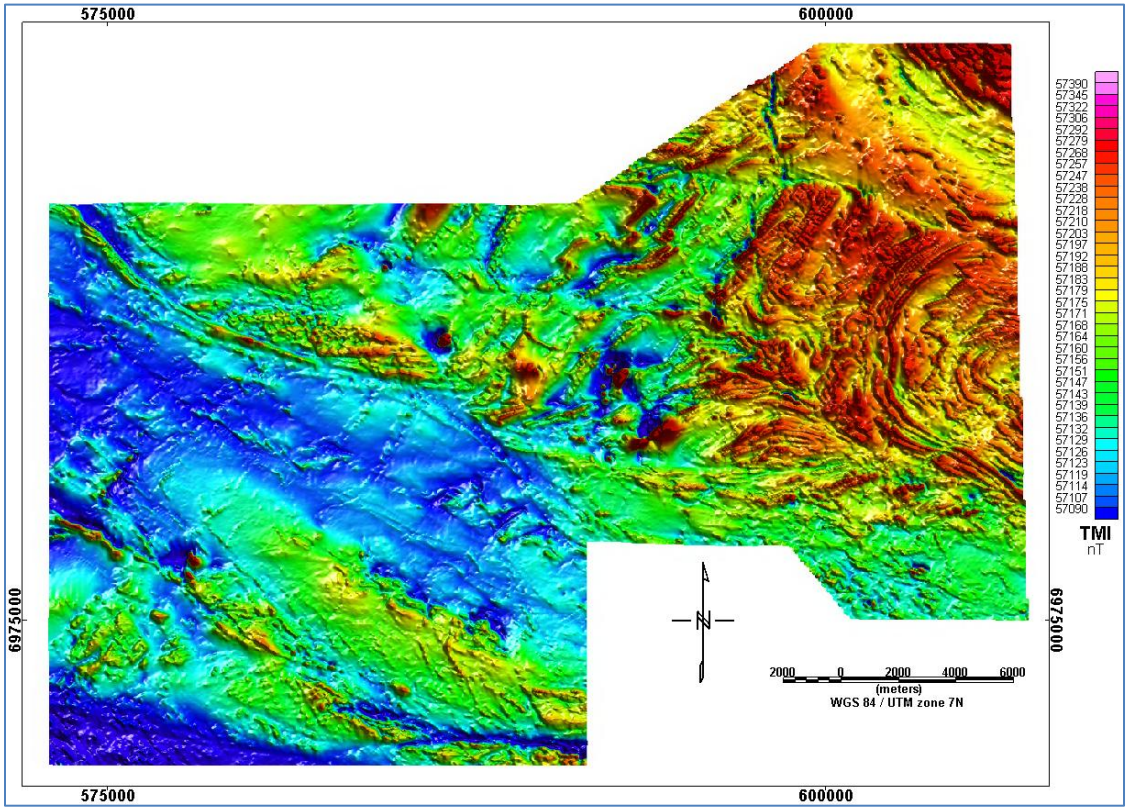


Figure 4. Kirkman TMI grid with a 5023 nT range.

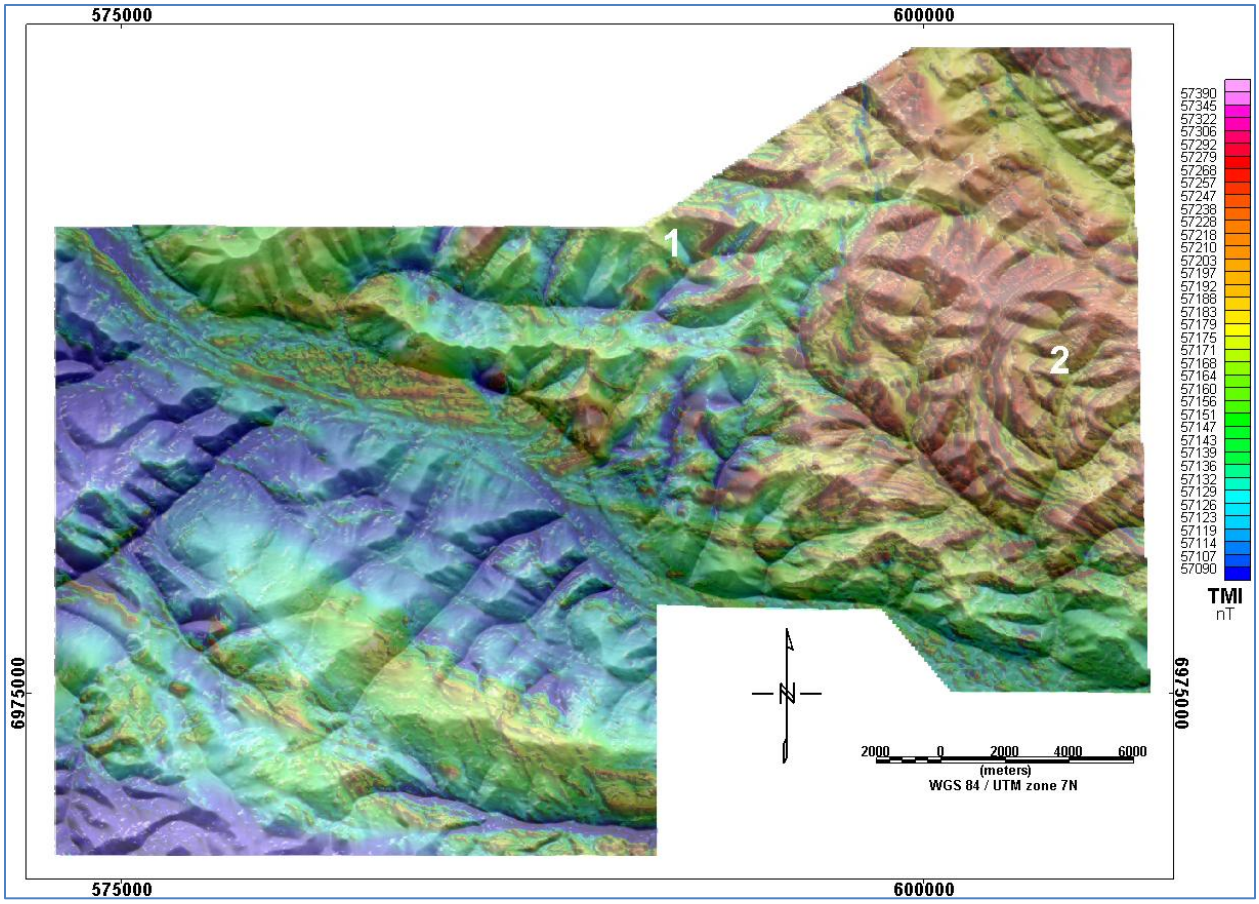


Figure 5. TMI grid draped on DTM relief. Apparent "folds" at sites 1 and 2 discussed in the text.

folded magnetic girizon, this may be a N-S striking linear magnetic horizon that dips westward. At site 2 at first glance, it appears that concentric magnetic horizons form a broad open fold that is open to the E-SE. It is also possible that these are rather parallel NE-SW striking linear horizons that are dipping to the E-SE. These horizons may have been eroded into an open-fold shape, by being differentially eroded on the mountain top and flanking valleys on either side of the peak elevations. The "fold hinge" or apex might actually be the highest mountaintop exposure of the NE-SW striking, E-SE dipping linear horizons.

Processing

The delivered TMI data presented only subtle line level effects, but the line level offsets became linear corrugations on subsequently filtered grids, the X-horizontal derivative grid higlights the filter corrugations (Figure 6). Condor Consulting therefore undertook mcroleveling of the TMI data to reduce the effects of line level offsets (Figure 7).

After microleveling the TMI grid was filtered, the filtered results are seen in figures 8-11. The filtered grids are the first vertical derivative, the magnetic tilt angle, the analytic signal, and the 2nd vertical derivative. The microleveling of the TMI data subdued the corrugation effects in the filtered data,

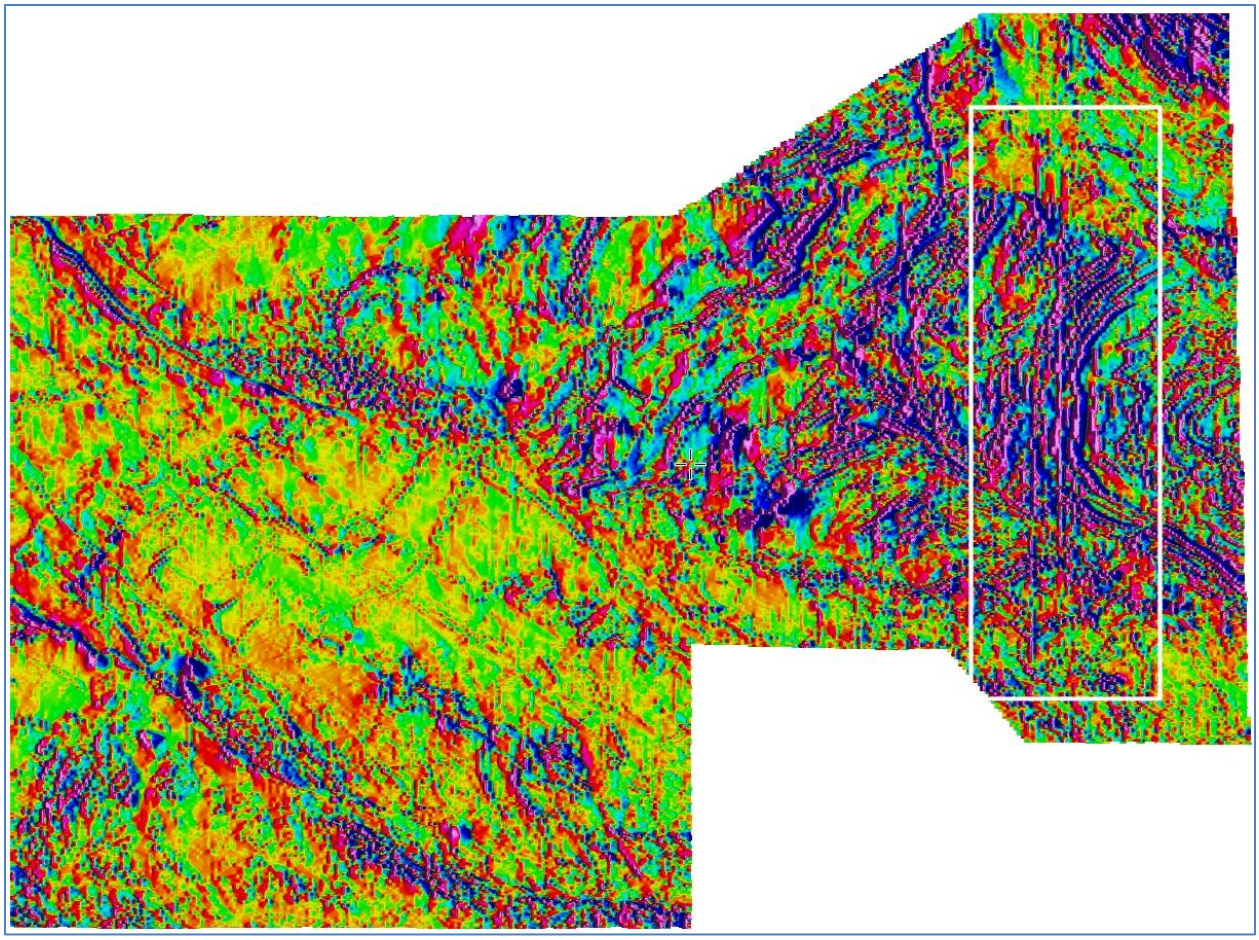


Figure 6. The horizntal X-derivative grid returns corrugations from line leveling offsets. The effect is highest in the area enclosed by the white box.

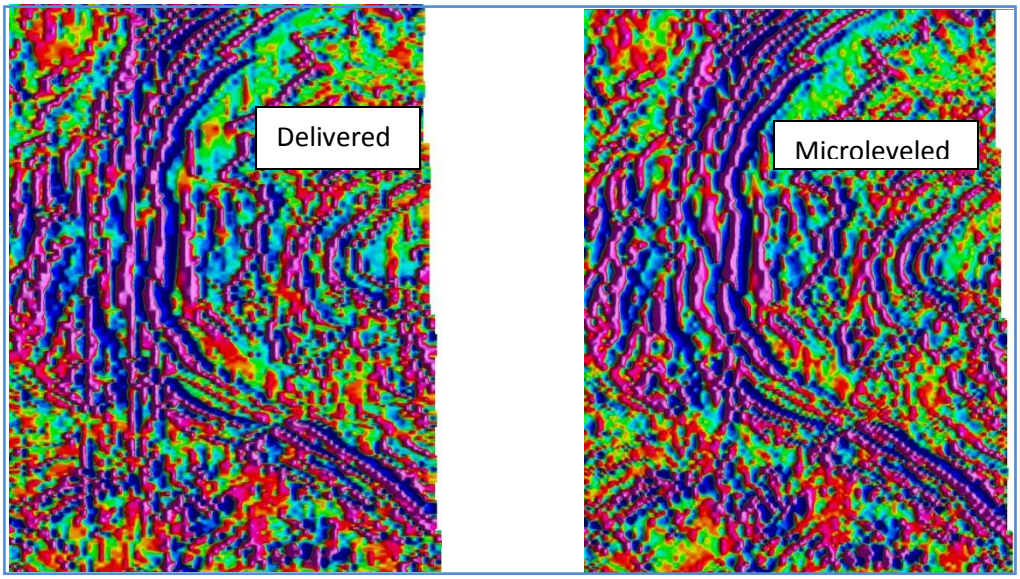


Figure 7. Delivered dX filtered TMI image left panel, Condor microleveled dX right panel. The microleveling removes the more obvious corrugations.

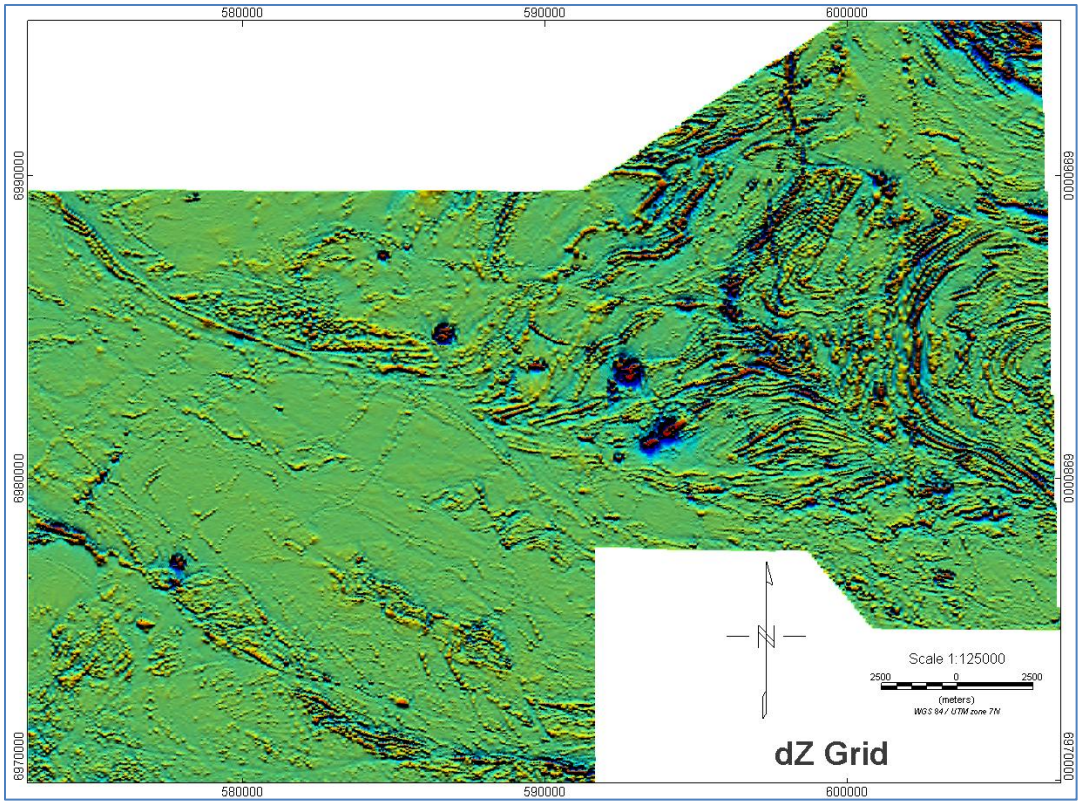


Figure 8. First vertical derivative grid.

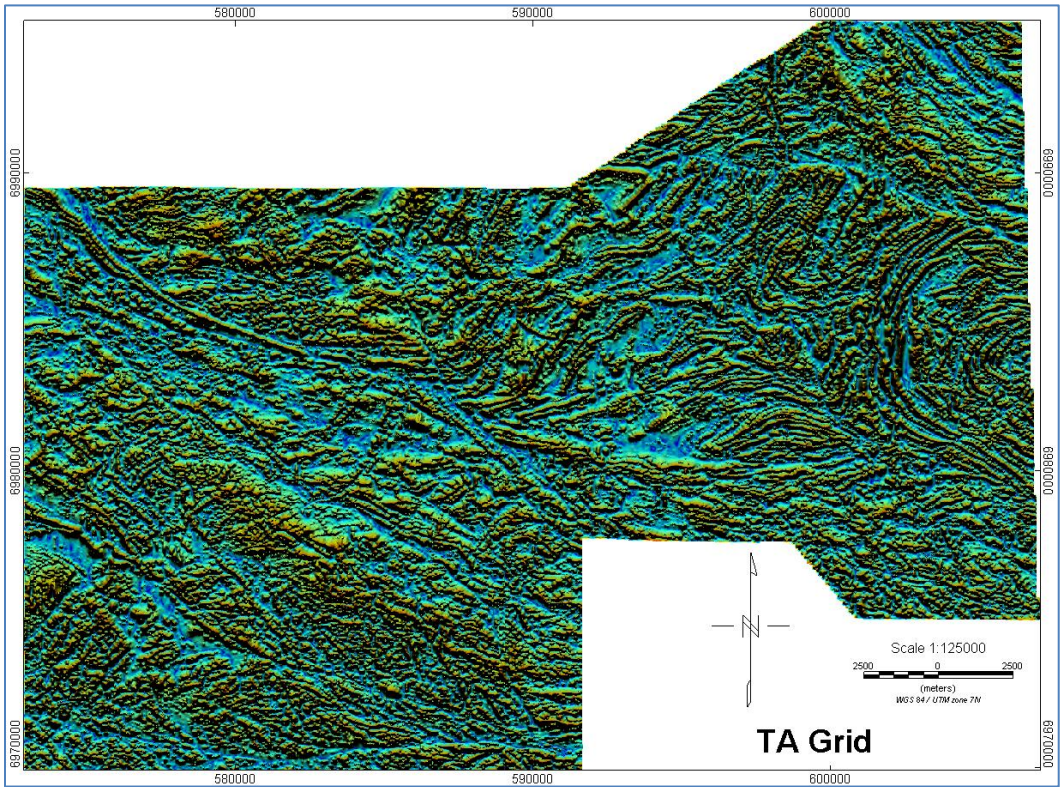


Figure 9. Magnetic tilt angle grid.

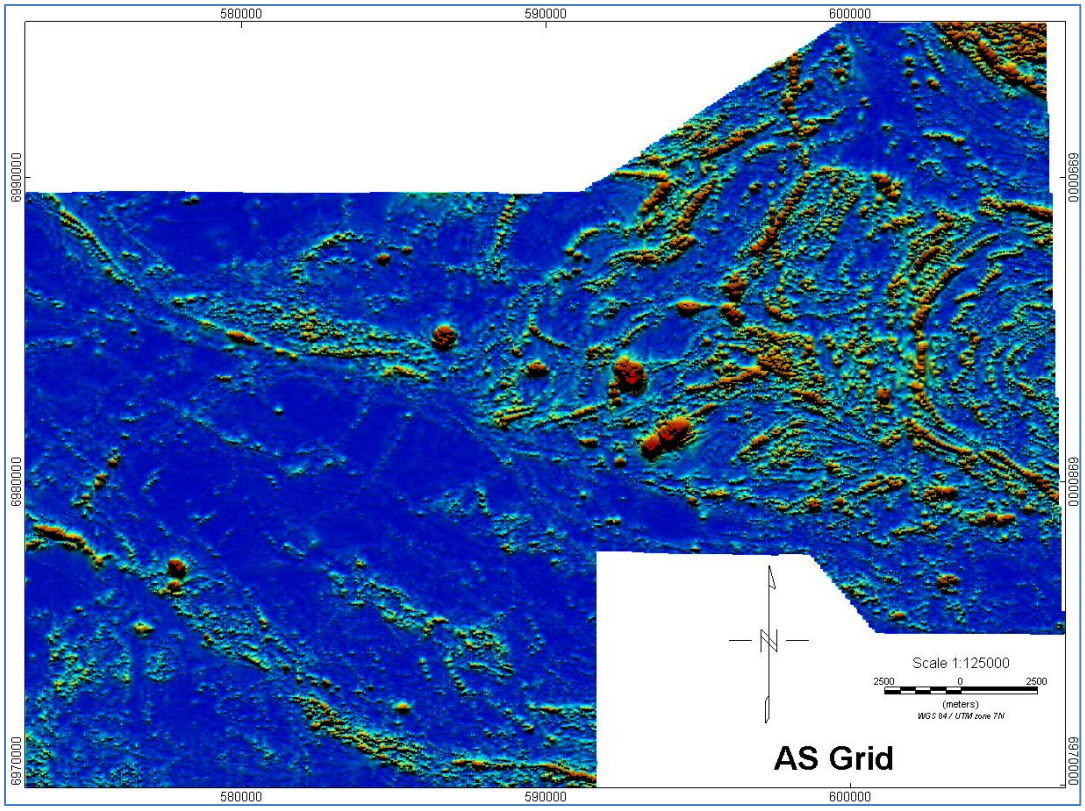


Figure 10. The Analytic signal amplitude grid is the combined X,Y and Z “total gradient”.

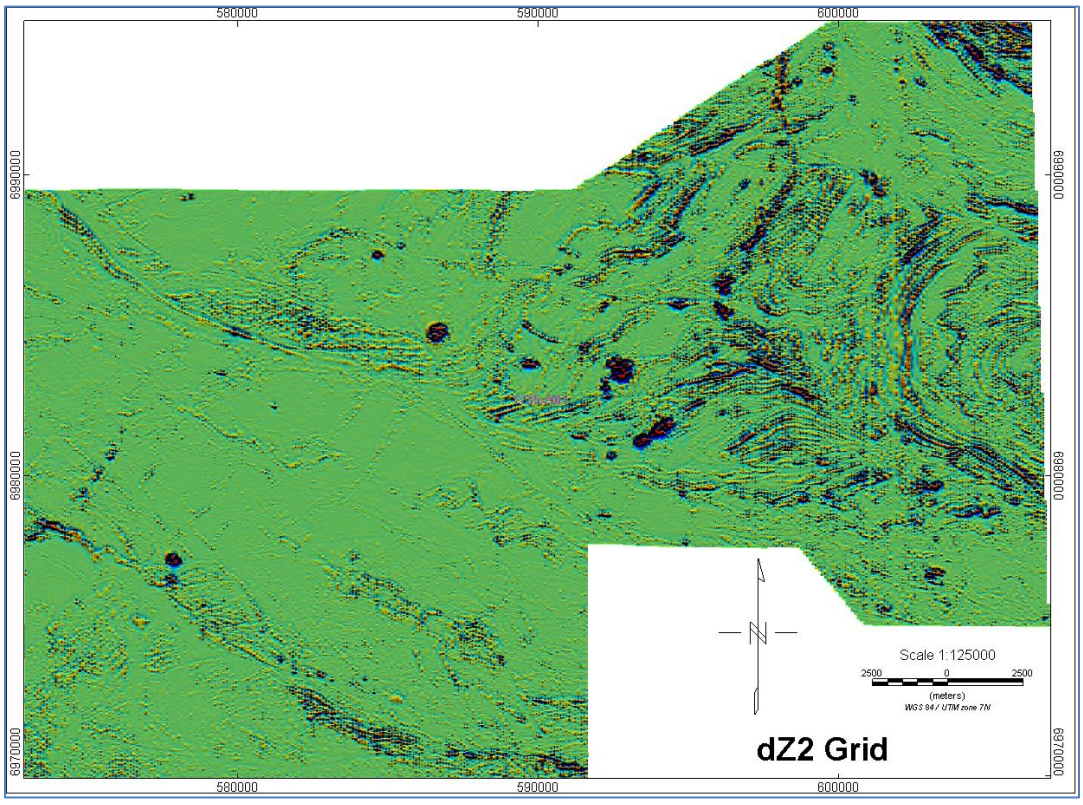


Figure 11. The second vertical derivative grid retains subtle line-level ffects on the east.

though the 2nd vertical derivative grid which is the most sensitive to level offsets, retains some minor corrugation.

Interpretation

The TMI and filtered grids are interpreted while draped over the DTM grid.

Magnetic Domains

The TMI and TA grids were draped on the DTM and define 11 magnetic domains of different magnetic textures. It is born in mind that the magnetic textures may in part be reflecting 3D topographic affects on magnetic horizons, and not solely magnetic texture itself. Figure 12 is referred to in the following discussion.

Domain 1 is located on the far northeast of the grid and is comprised of NW-SE striking magnetic horizons of higher TMI amplitude. The elevation in this Domain varies but it is lower in elevation than the higher central regions of the grid to the southwest.

Domain 2 abuts Domain 1 on the SW, and it is of noticeably lower background TMI amplitude than Domain 1. Domain 2 like 1 also has a NW-SE striking magnetic texture. It is lower in elevation than Domain 1 and straddles a north-flowing drainage.

Domain 3 to the SW of Domain 2 is higher in TMI amplitude than 2, and higher in elevation. The magnetic grain is again NW-SE striking on the south of the Domain, but swings around to NE-SW striking on the north. Domain 3 is separated from Domains 4 and 7 to the S-SW by a major ESE-WNW striking magnetic linear, that has a coincident topographic expression. The abrupt change in magnetic character across this linear break may indicate a fault. In the northwest of the Domain, discordant possibly remanent linear signatures strike northward as two “demagnetized” segments, out of the survey grid.

Domain 4 is characterized by the highest frequency and most complex magnetic signatures, its abrupt southern and western magnetic domain boundaries trace drainages, it is unknown if the drainages track faults. Parallel magnetic horizons occur in this Domain. On the Domain east, concentric horizons form a larger half-circular signature that is open to the east. As mentioned, if this is not a large open-fold to the E-SE, it may be an erosion-topographic (flatiron) effect on parallel N-NE to S-SW striking linear horizons that dip to the E-SE. On the west of the Domain the magnetic structure may be more complex; there may be interplay of folding and topographic effects. Magnetic horizon folding may be evident, where parallel magnetic signatures are seen to strike N-NE then wrap around a northern apex reversing direction 180 degrees and striking S-SW. In some places the horizons parallel topographic ridges and their flanking facets, whereas in other places they strike across topographic ridges their flanking facets and incised drainages, indicating that topography may not be the only control on magnetic horizon

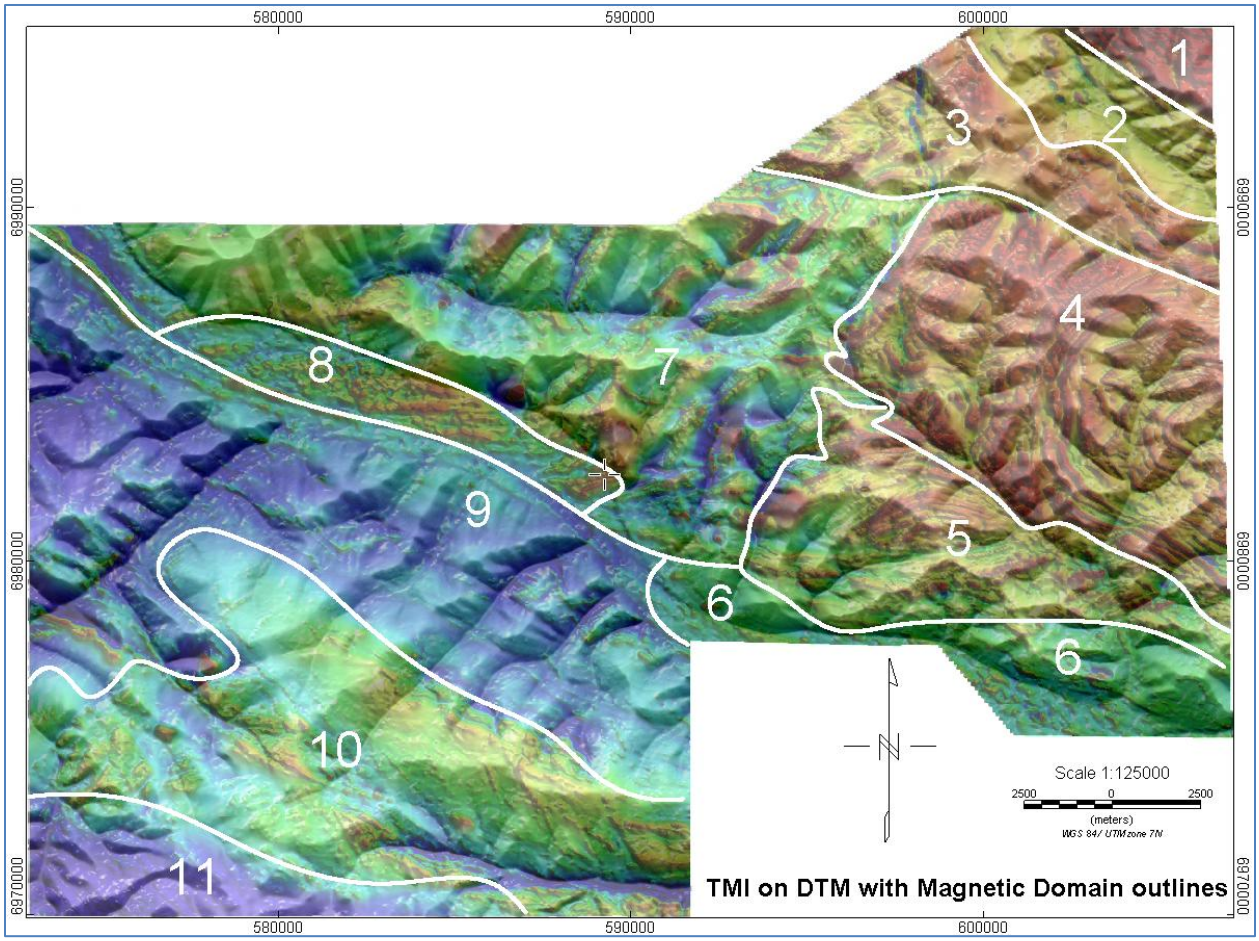


Figure 12. The 11 magnetic domains, TMI draped on topography is the background image.

orientation and morphology. The highest-amplitude TMI signature forms the sharp western boundary of this Domain, it is on an exposed ridge flank and it strikes parallel to the flank. This signature's higher amplitude, if not due solely to higher susceptibility may result from magnetic horizon's exposure near the top of a ridge.

Domain 5 is a zone of generally lower TMI amplitudes when compared to Domain 4. It is similar to Domain 4 in that parallel and concentric magnetic signatures are observed. The long-axis strike of these horizons is generally E-W, the abrupt change in magnetic signature strike from Domain 4 occurs across a tributary of the Yukon. It is not known if the tributary traces a fault. The apparent change in magnetic horizon orientation between Domains 4 and 5 may not be solely structural but may at least in part be due to topography. The prominent concentric horizons in Domain 5 form a larger E-W striking "eye shaped" signature that straddles a mountain peak immediately to the north of and parallel to the Yukon. A larger arcuate magnetic linear, concave to the north, bisects this Domain just to the north of the Yukon main channel and strikes further to the west in a listric manner, asymptotically, into the Yukon channel. The Domain's N-S striking western boundary traces another N-S striking Yukon tributary. A prominent discrete higher gradient amplitude magnetic signature is located on this boundary and should crop out near the top of the tributary.

Domain 6 covers the flanks of the Yukon River and the Yukon itself on the grid east. It's a zone of lower amplitude background TMI response with a more diffuse overall magnetic texture with less coherent magnetic signatures. The Domain's general magnetic grain strike is NW-SE, parallel to the Yukon.

Domain 7 contains intermediate background TMI amplitudes that are lower amplitude than the Domains to its east, but of higher amplitude compared to the Yukon River Domain 9 to the south. The magnetic texture in this Domain is generally NE-SW striking, though on the far west it is less well defined, and more E-W. This Domain has the highest concentration of discrete, higher gradient amplitude signatures on the grid. These signatures are both discrete "blobs" and linear magnetic horizons several km long. Topography does appear to affect some of the linear magnetic signatures in this zone, particularly on the zone northeast where continuous NE-SW striking higher TMI amplitude magnetic horizons appear to be folded into "Z" folds, when topography shows incised drainages may be causing a pseudo-folding visual effect as the horizons traverse across deeply incised "V" shaped ravines.

Domain 8 is entirely inside the Yukon River channel. It shares the lowest topography on the survey grid with Domain 6. A series of N-S stacked E-W striking en-echelon magnetic linears characterize the Domain. The linears may be continuous with more NE-SW striking magnetic horizons in the mountains that form the northern flank of the river, and the magnetic "kink" to the E-W strike in the river bed may be due solely to the slope change of the topography, if indeed the riverbed horizons continue on a northeasterly strike up into the mountains.

Domain 9 is located on the northern slope of the mountains immediately south of the Yukon. The dominant magnetic texture strikes NW-SE, parallel to the Yukon channel and northern slope face. Subtle NE-SW striking magnetic signatures are also identified in the Domain, these usually line up with tributaries that drain perpendicular into the Yukon. It's not known if these tributaries occupy faults. Two ~10 km subtle magnetic linears parallel the Yukon River south of the river, these coincide with linear topographic notches in the north slope; it's not known if these trace faults. The background TMI amplitude of this zone is the lowest on the grid, it's not known if this reflects local surface magnetization or is part of a deeper-sourced regional trend with higher background amplitudes in the mountains to the northeast. One higher-amplitude discrete magnetic signature is located on the southwest of the Domain.

Domain 10 contains the high mountain peaks south of the Yukon. The background TMI amplitude is moderate amplitude. The main magnetic texture of the Domain strikes NW-SE, though conjugate E-W and NE-SW textures are prominent on the SSW. Listric or splay linears asymptote into larger regional linears in the Domain center. The Domain might be split into two sub domains, north and south, separated by the NW-SE striking large listric magnetic signature discussed in Figure 22. A few discrete magnetic signatures are identified that are lower amplitude than the discrete signatures identified in Domain 7.

Domain 11 is located on the far southwest of the grid. It is in the mountains south of the Yukon, and has lower background TMI amplitude, that is possibly regional in origin. The largest magnetic linear in the

Domain strikes E-W, with secondary longer magnetic linears striking NW-SE. On the west of the Domain, NE-SW striking linears dominate.

Regional and Local Linear Magnetic Signatures

Several tens of linear magnetic signatures can be traced throughout the survey grid (Figure 13). The lines trace thinner more-subtle first vertical derivative signatures with an associated positive or negative TMI signature. These lines more likely represent faults, fractures, or dykes rather than magnetic horizons. Coherent magnetic horizons dominate the eastern and northeastern grid highlands and may be affected by faulting across some of the linears. The main linear trend is NW-SE striking and generally parallels the Yukon River channel. A 2nd conjugate linear trend strikes NE-SW. A third less obvious trend is E-W, and a fourth is more steeply NW-SE than the main Yukon trend.

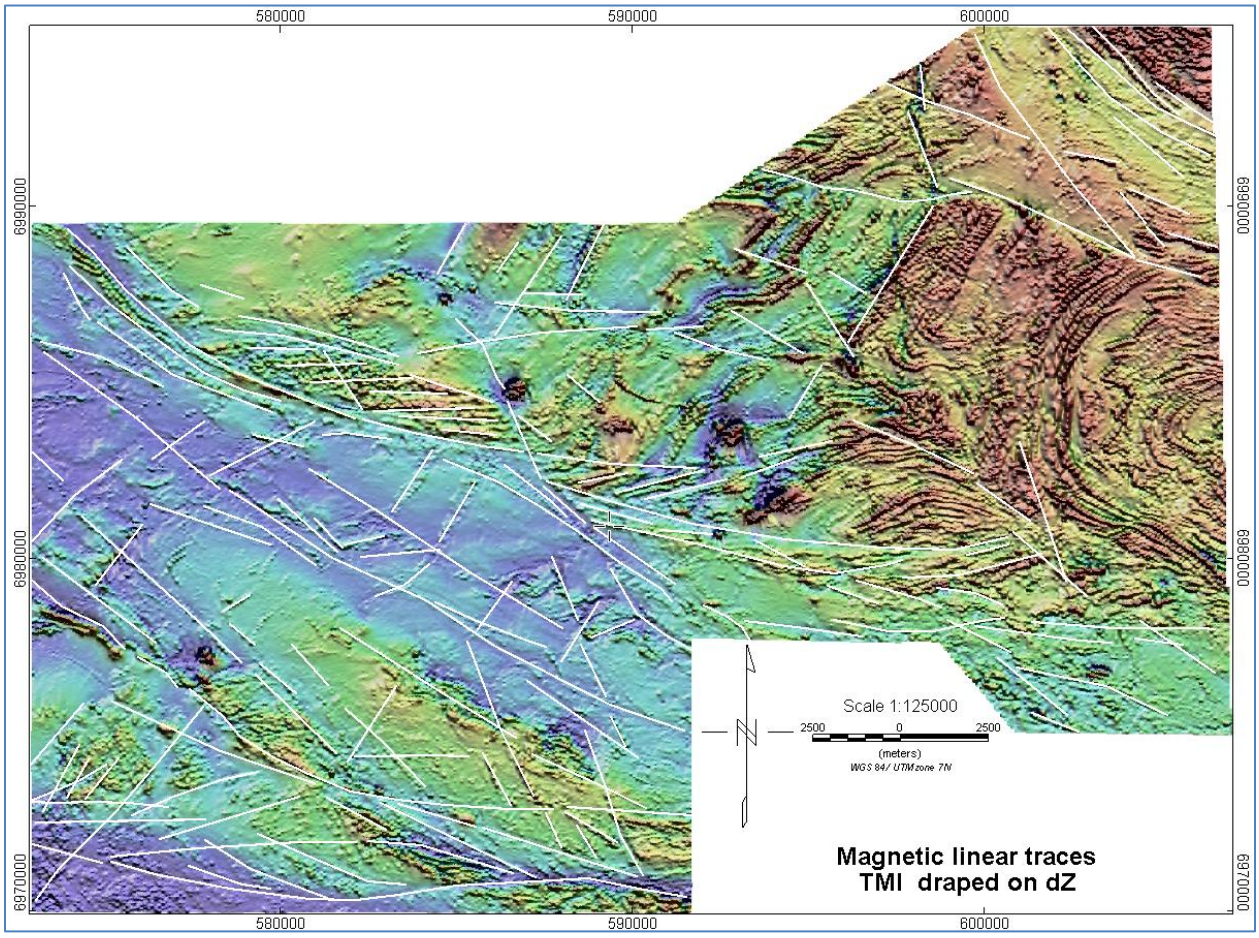


Figure 13. First pass Linear magnetic traces in white on the TMI draped on the dZ.

Higher Amplitude Magnetic Gradient Signatures

Magnetic horizons with higher amplitude AS signatures are traced on the analytic signal grid (Figure 14). This returns several tens of magnetic signatures, some are discrete blobs, some are discrete elongated horizons, some are discrete shorter horizons, some are elevated amplitude shorter segments in longer

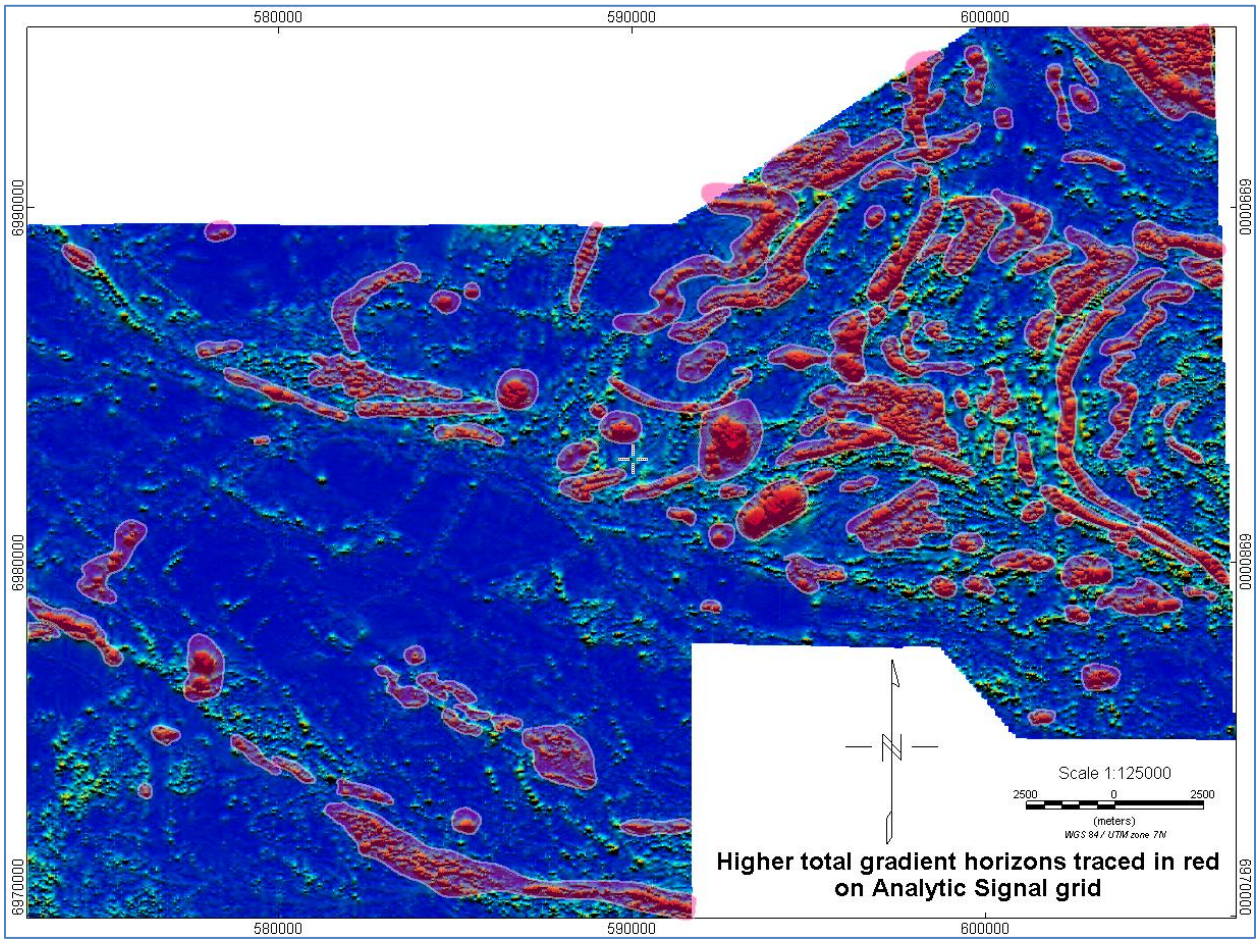


Figure 14. Traced-in higher total gradient AS signatures in red outline.

horizons, and some are apparent magnetic horizon vergings. A cursory prioritization of these numerous zones is subjective and without signature amplitude information.

To reduce the number of higher-gradient signatures or segments highlighted, the highest amplitude AS values are selectively contoured on the analytic signal grid. This quantifies and limits the traced segments above a picked AS threshold. This contour thresholding is an automated signature identification technique that subsequently allows the highest amplitude AS signatures to be ranked for field follow-up investigation. Figure 15 is a map of the top 12 higher amplitude analytic signal signatures highlighted in red outline on the grey shaded DTM image. The drainage catchments located below the higher amplitude gradient signatures could be flagged for subsequent stream sediment sampling. For

those high-gradient areas on the top of ridgelines, soil sampling can be undertaken on top of the signatures.

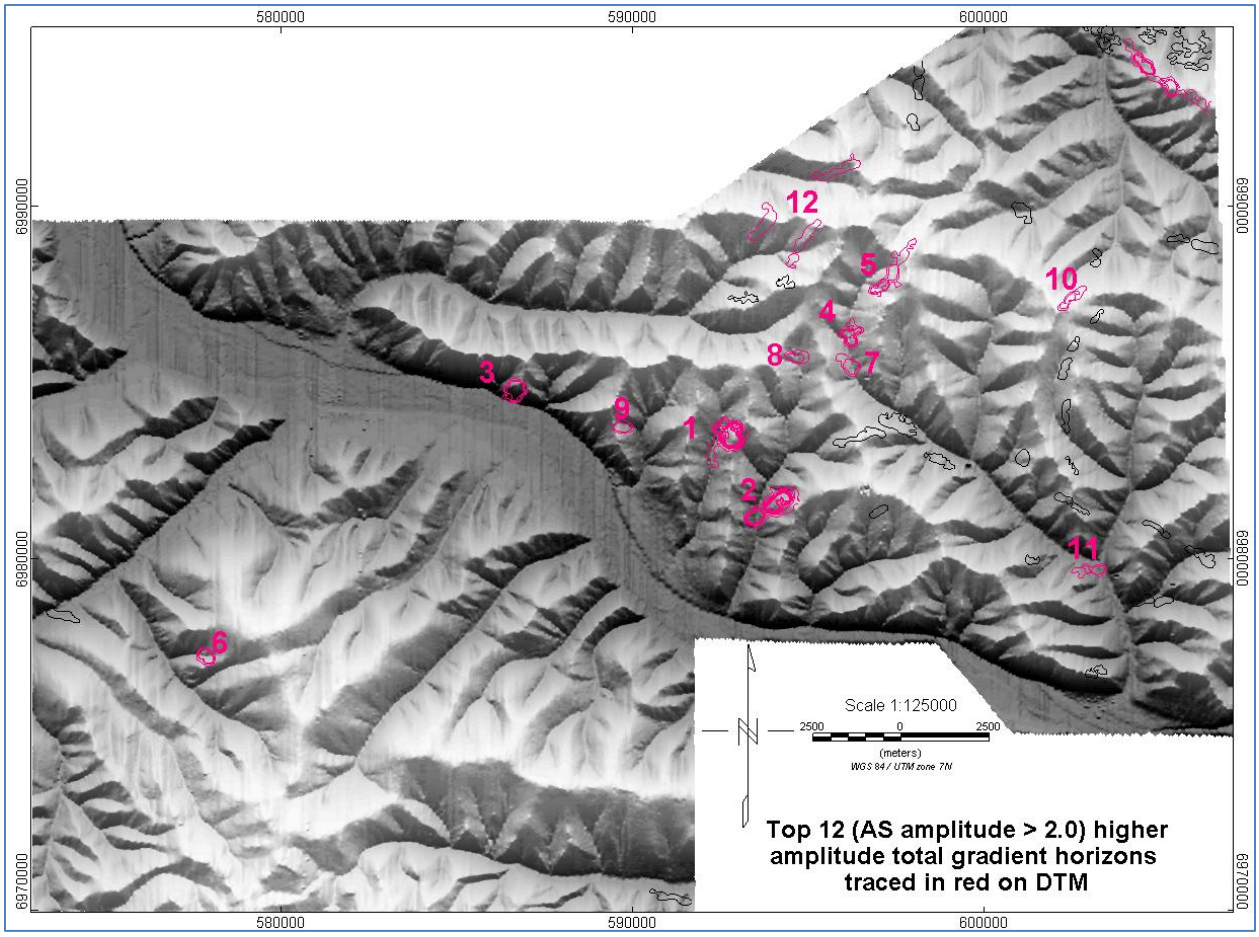


Figure 15. The "Top 12" higher amplitude AS signatures traced in red draped on the DTM grayscale image. Drainages or ridgelines can be identified for stream or soil sampling.

Comparison of Magnetic Responses and Geochemistry

Geochemical assays were provided for the "Dan Man" and TL soil and rock samples. These assays can be plotted against the new magnetic data to identify magnetic signatures that are adjacent to or up-stream from the samples.

Figure 16 is the regional plot of the elevated gold assays. The Dan Man area on the grid southwest returns elevated AU. Figure 17 is a zoom-in on the Dan Man AU assays. Larger symbols that spectrum from blue to red shades are the higher assays. There are no obvious discrete higher gradient magnetic signatures adjacent to or upstream of the higher gold assay samples. Subtle magnetic gradient signatures are located upstream of or adjacent to both elevated AU clusters and may be of further investigative interest. One of the Top 12 discrete high magnetic gradient signatures contoured in red is

located to the SW and down-slope on the other side of the ridge away from the elevated AU assays to the NE.

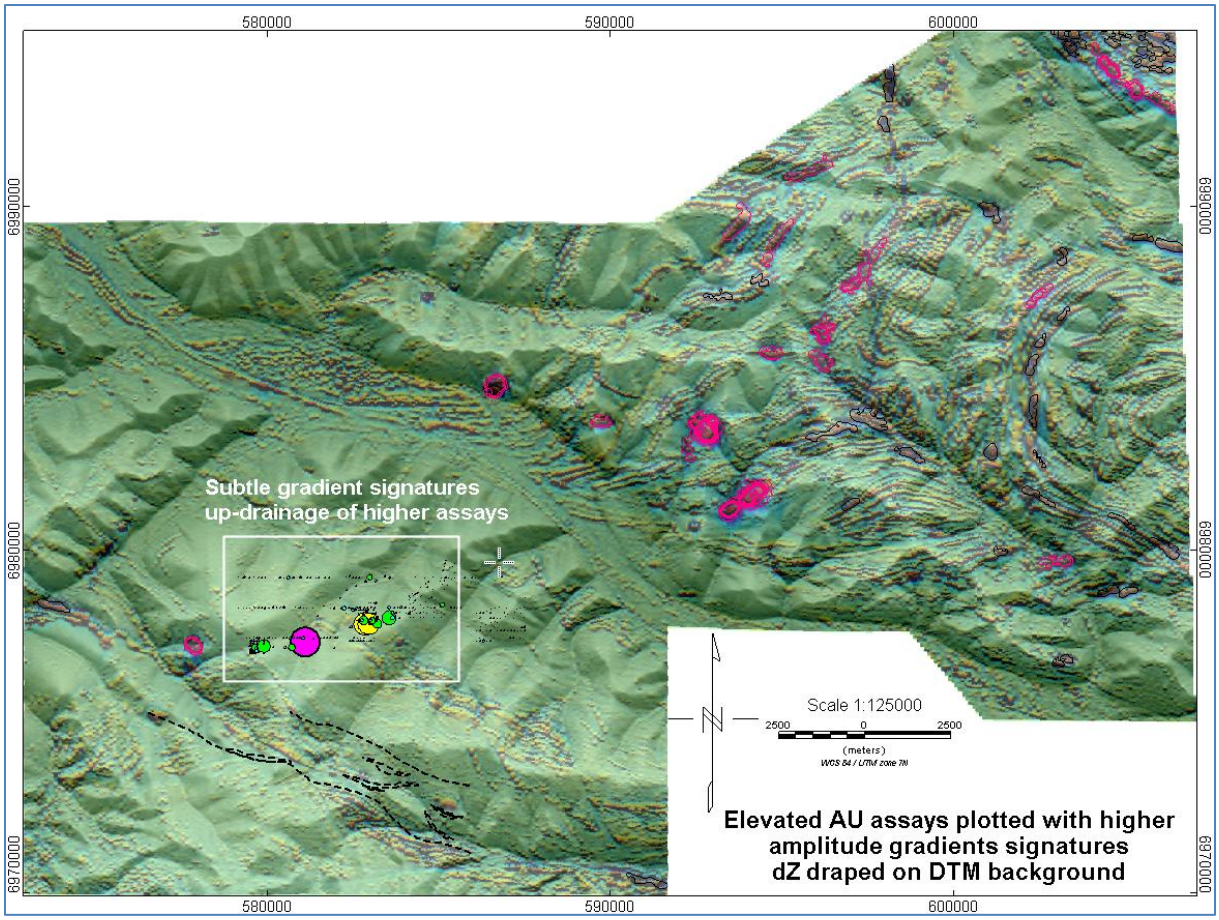


Figure 16. Elevated AU assay symbols in the Dan Man area are not adjacent to discrete higher amplitude dZ signatures. Larger red circles are the highest assays.

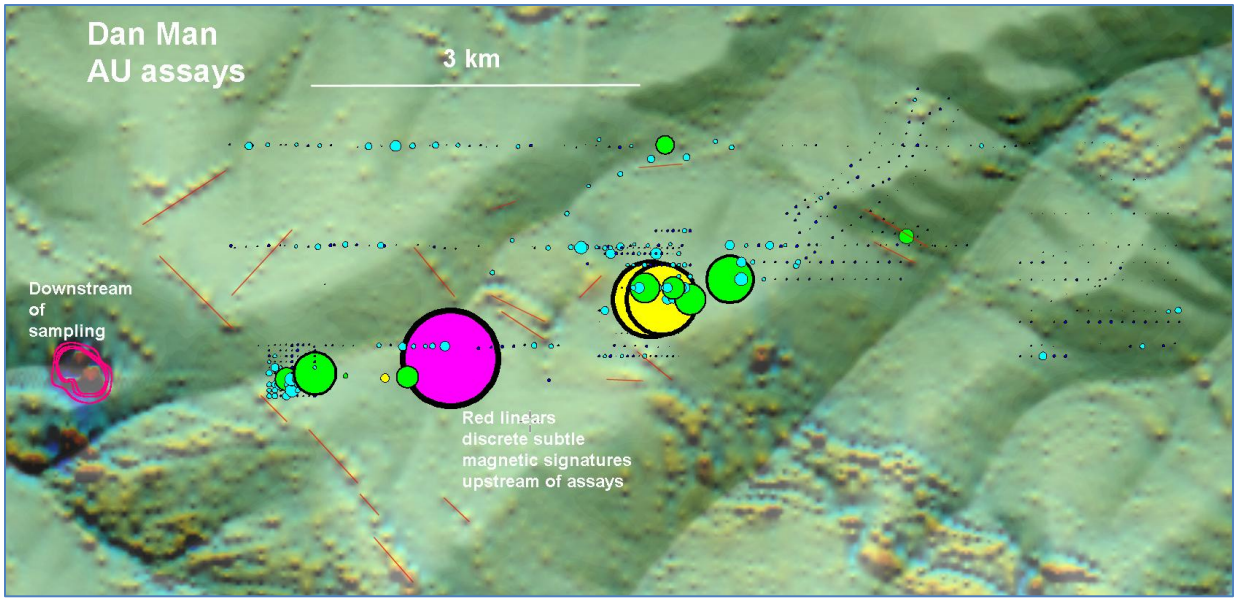


Figure 17. Dan Man AU sample zoom-in. The elevated assays are surrounded by subtle magnetic linears traced in red. One Top 12 gradient signature is on the SW backside of the drainage divide.

Figure 18 is the regional plot of the elevated arsenic assays. Figure 19 is a zoom-in on the TL and Dan Man 2010 grid assay samples. In the TL sample area elevated AS assays are both adjacent to and downstream of higher gradient magnetic signatures. In the Dan Man 2010 sample area, higher AS assays on the ridgeline are adjacent to one subtle magnetic linear traced in red. Several higher amplitude discrete gradient signatures in the Top 12 are seen on this image, only the set of 3 contoured signatures that comprise #12 on the north of the figure are upstream of elevated AS assays.

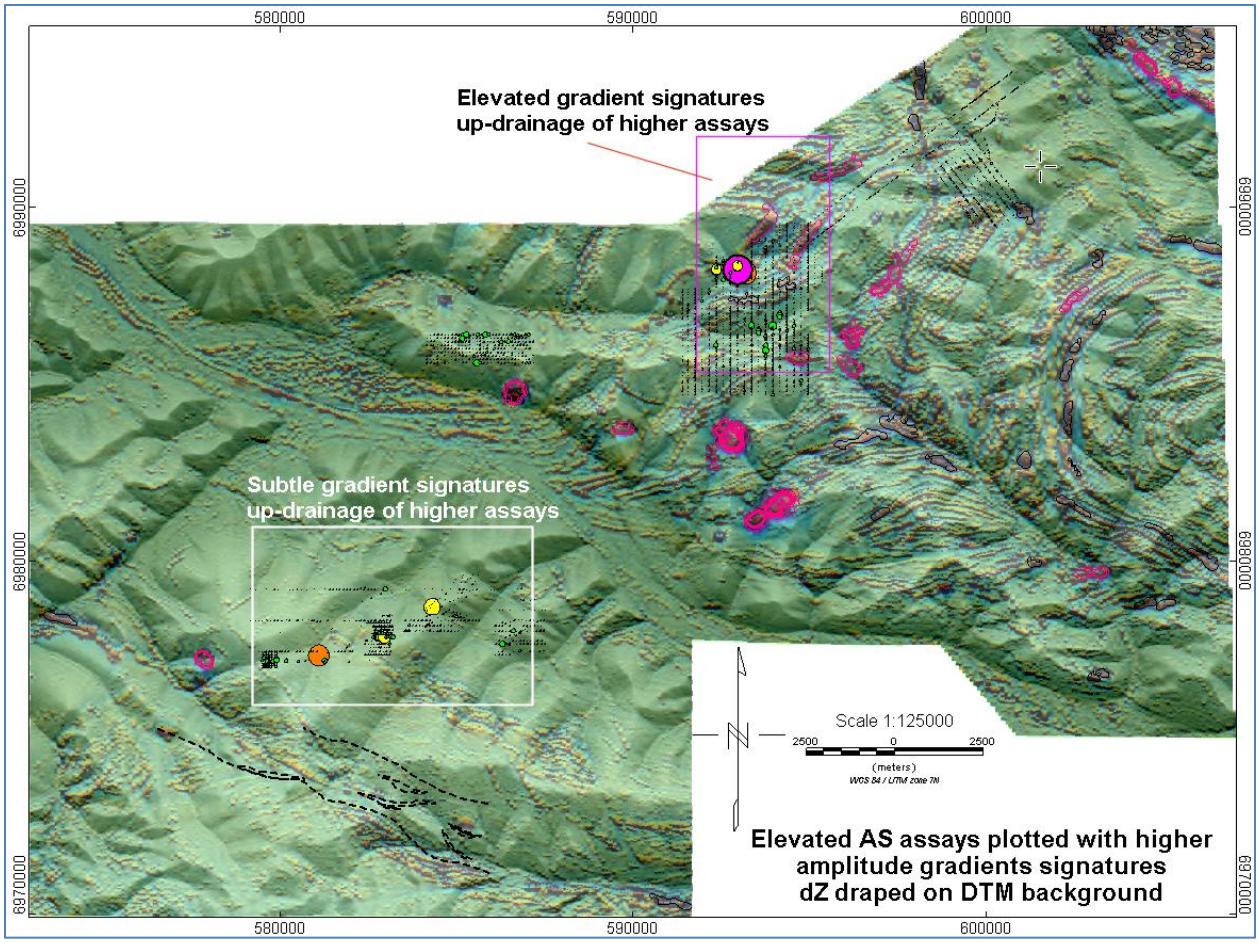


Figure 18. Elevated AS assay symbols in the Dan Man area are not adjacent with discrete higher amplitude dZ signatures. The nearest anomalous magnetic gradient signature is to the south of the local drainage divide. Larger symbols trending from blue (lower AS) to red (higher AS) shades are the elevated AS assay sites.

Figure 20 is a zoom-in on the Dan Man elevated AS assays, on the grid SW. As for the AU assays seen in Figure 17, elevated AS assays are near subtle magnetic gradient linears, there are no sore-thumb magnetic signatures adjacent to or upstream of the elevated assays.

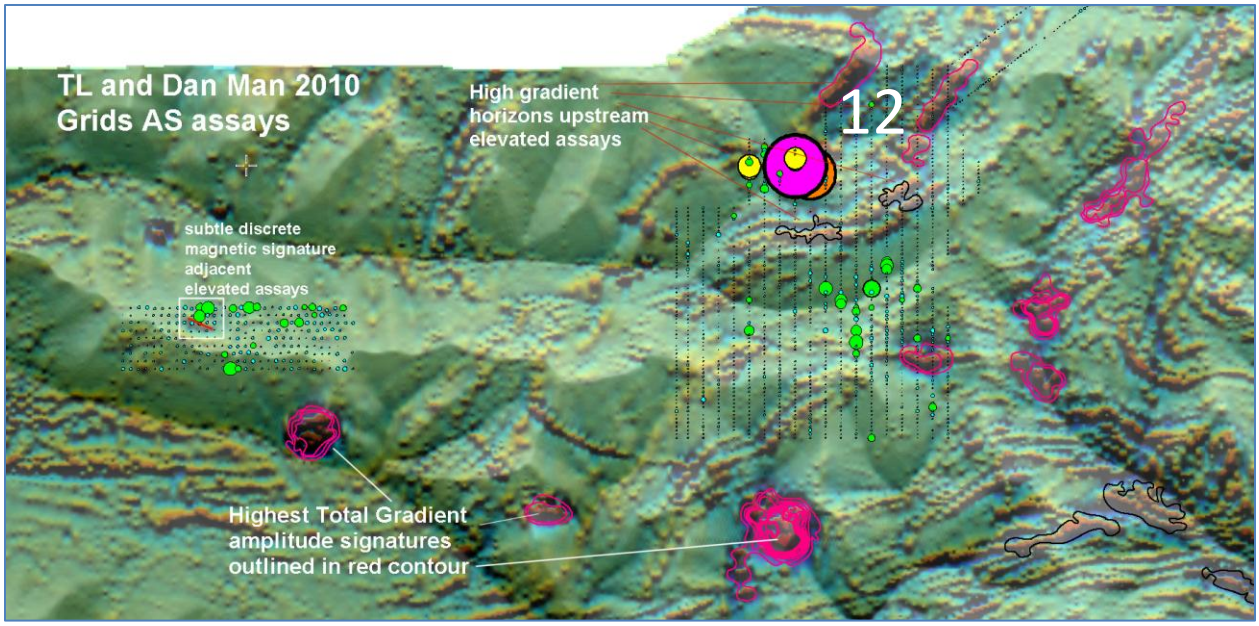


Figure 19. Zoom-in on the TL and Dan Man 2010 AS assays. The highest assays on the TL grid are downstream high gradient signature #12 from the picked "Top 12" gradient signatures.

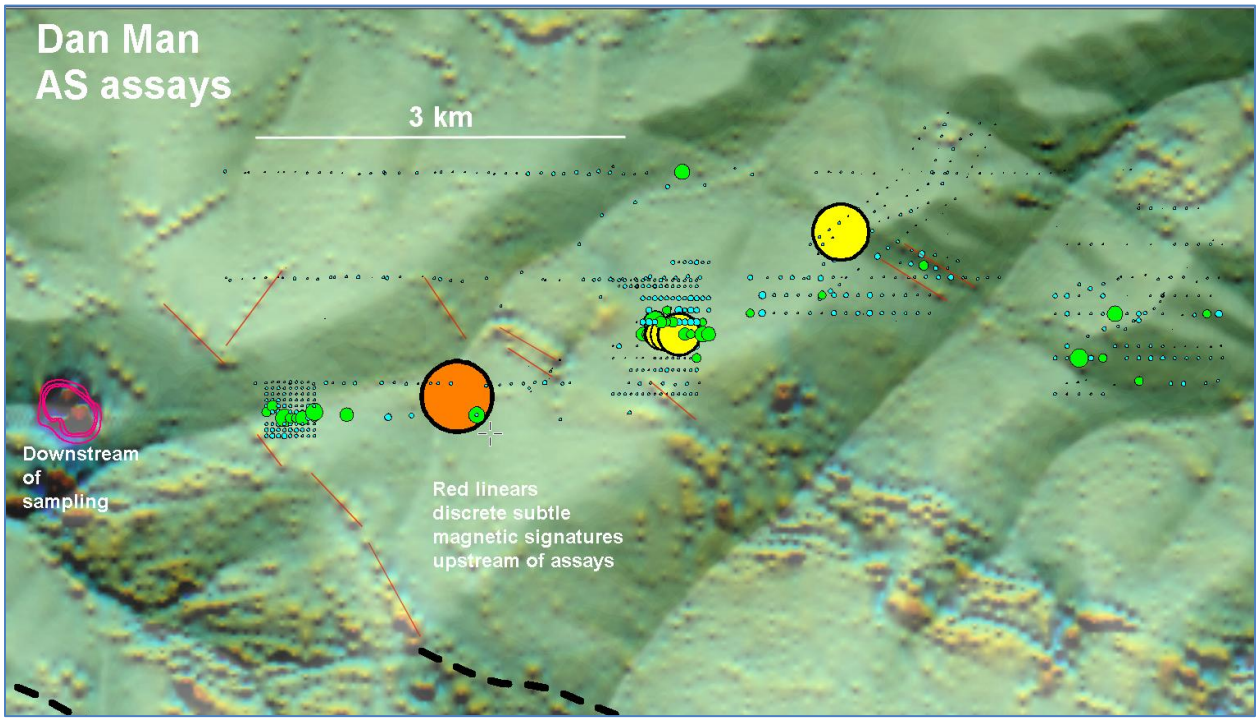


Figure 20. Zoom-in on the Dan Man AS assays. Only subtle linear magnetic gradient signatures are adjacent to or upstream of the elevated assays. The large orange symbol is the highest AS assay.

Review of Kaminak Magnetic Signatures

A previous interpretation and drilling of the Kaminak area was undertaken, this is reviewed against the high resolution heli-magnetic data. Prior interpretive bias may exist as the past drawn linears and borehole sites appear to be selectively located on easy access ridgelines. Figure 21 shows the location of the various Coffee-named zones.

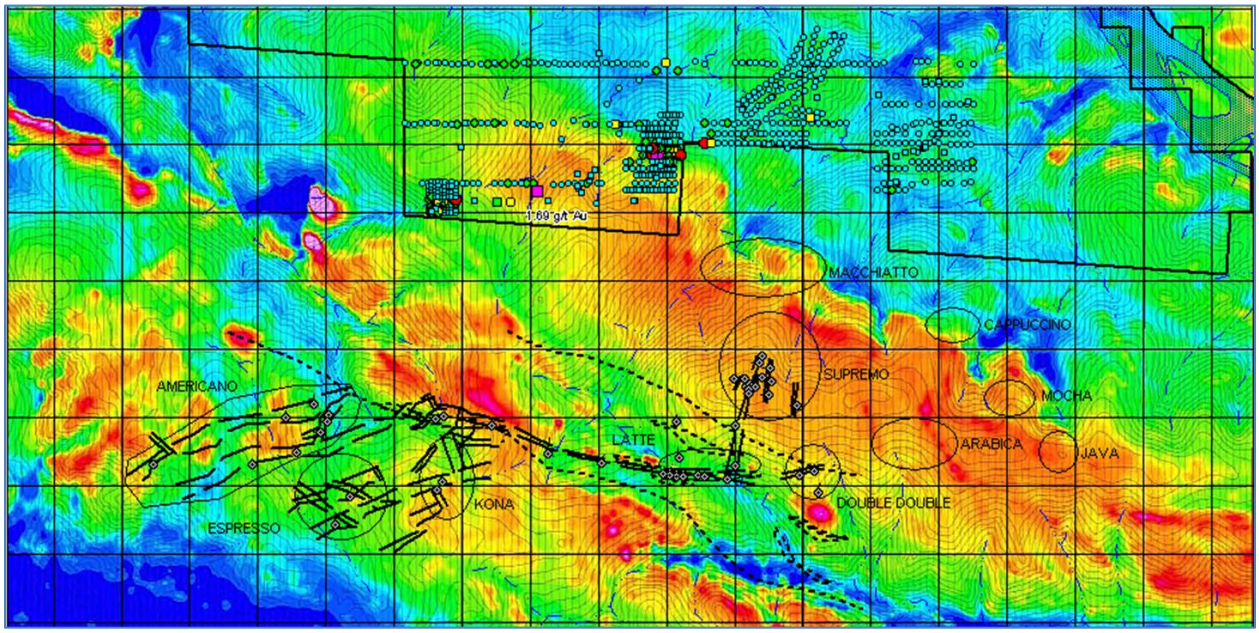


Figure 21. Image showing the location of the Coffee-names zones with the existing geologic interpretation and sample sites.

Americano

This Zone's prior interpreted NE-SW trending magnetic texture matches the TA grid texture, that appears to track a topographic ridge. The dominant magnetic strike is sub-perpendicular to a large (20 km on the grid) NW-SE striking magnetic zone that asymptotes in a listric manner into a 2nd large E-W striking magnetic linear on the far south of the survey grid. Only two drill holes, CFD058 and CFD066 appear drilled into higher amplitude gradient signature, four of the other holes are drilled into the northeast periphery of a subtle circular magnetic signature. A discrete higher amplitude magnetic signature is located 1400 m north of this Zone.

Espresso

The prior interpretation was a conjugate NE-SW and SE-NW striking magnetic grain. The TA grid maps a predominantly NE-SW grain. The two existing drill holes are sited into low amplitude nebulous TA signatures; there are no obvious dZ or TMI signature to target in this Zone.

Kona

The previous interpretation's NE-SW striking magnetic texture matches the aeromagnetic texture. The two prior holes in this Zone are drilled into nebulous magnetic signatures.

Latte

Ten holes are drilled into a NW-SE striking magnetic curvilinear to the north of the NW-SE striking 20 km magnetic zone. The northern signature curves from an E-W striking signature on the east into a NW-SE striking signature as it merges into the larger regional magnetic zone. This curvilinear could be either a listric merger or a splay. The boreholes are sited at the juncture where the horizon's E-W strike curves northwestward. The holes on the curvilinear look well sited to intersect the signature. Two separate holes in the east of the Zone are drilled into a NW-SE striking linear that crosscuts the east-striking curvilinear. The eastern end of the curvilinear strikes into a NE-SW striking magnetic linear that traverses across the central part of the survey grid, that strikes into the southern zone of the TL license survey area. This NE-SW linear traces two Yukon-perpindicular tributary drainage channels on the north and south of the main Yukon River channel.

Double Double

The original interpretation of NE-SW striking linears is also evident on the TA grid. A conjugate SE-NW linear on the TA grid crosscuts this though. Overall, the magnetic texture in this small Zone is poorly defined. The two holes in this Zone appear well-sited to intersect the first linear. A discrete higher amplitude and more obvious magnetic signature is located on the south periphery of this Zone.

Supremo

The previous interpreted N-S striking magnetic grain is not duplicated on the heli-mag data. The heli-mag data is nebulous, not coherent in this Zone. Two larger nebulous TA linears strike E-W and WNW-ESE respectively, but the two don't have stand-out dZ signatures for targeting. The WNW-ESE grain parallels an exposed ridge face. A vague NNE-SSW striking grain parallels a drainage perpendicular to the ridge face. It is not known what was being targeted by the several drill holes in this Zone beside the ridge top. The holes are at the head of the NE-SW striking Yukon tributary that might track a fault? For possible future targeting, a more-magnetic NW-SE striking horizon is located on the northeast periphery of the Zone.

Machiatto

There are no drill holes sited in this Zone. The Zone's magnetic texture is a nebulous disruption of a smooth background response. There is a general NW-SE grain, with a secondary E-W grain, with one more prominent NE-SW striking linear on the Zone west. Several dZ horizons could be selected for targeting in this Zone, though these are subtle, not outstanding, dZ signatures. On the western Zone periphery is a group of 2-3 discrete gradient signatures with a higher background TMI amplitude that could be targeted.

Arabica

Two NW-SE striking dZ linears cut through the eastern and western sides of this Zone. An E-W striking curvilinear traverses across the south of the Zone, its northern apex protrudes northward into the Zone. There are no drill holes in this Zone but these three signatures could be targeted.

Java

This is the southwestern-most circled area in a larger Zone of disrupted background magnetization that traverses NW for 6 km past the Zone Macchiato. The regional magnetic grain of Java matches the larger zone's NW-SE strike. The more prominent dZ signatures to the NW of Java could be targeted.

Mocha

This is also located in the larger NW-SE striking disrupted zone that contains Java. The main magnetic grain of this Zone is also NW-SE, though there is a subtle E-W grain on the Zone north. The better magnetic signatures to target are on the northeast periphery of Mocha, just outside the Zone.

Cappuccino

Cappuccino is located 1300 m to the NW of Java. There is one discrete dZ signature in the south of the Zone. There is not a coherent magnetic grain to this Zone, but subtle magnetic linears trend NW-SE. Higher amplitude magnetic signatures are found just to the west and south of this Zone.

Fingerprinting the Kaminak Magnetic Signatures

The magnetic structure of the Kaminak area surrounding existing drill hole sites is studied, as are the magnetic signatures and structures in the vicinity of the Dan Man and TL grid sample grids. Magnetic patterns in these areas are identified. As known mineralization exists at Kaminak, magnetic signatures from Kaminak can be used to "fingerprint" other magnetic signatures in the license areas for sample site selection, though the sample site selection is not just limited to Kaminak style magnetic signatures. Any higher-amplitude or otherwise "interesting" magnetic signature could be picked.

Figure 22 shows the main magnetic structural elements in the Kaminak region immediately adjacent to the 11 Coffee Zones and sample sites. The black lines were the prior field interpretation. The grey and white lines are the larger Condor-traced elements. The two largest regional linears are outlined by the thick grey lines. The large southern linear traverses E-W through the survey area, the 2nd more northern large linear traverses NW-SE through the property and intersects the southern linear in a listric manner. This linear may actually split magnetic Domain 10 into two sub-domains. The southern linear looks more like a discrete break or fracture, whereas the northern linear traces out a much wider zone of more-complex higher amplitude shorter magnetic signatures that are strung out generally sub-parallel to parallel along a larger NW-SE linear zone. At least one of the shorter sub-parallel signatures adjacent to the larger magnetic zone is a curvilinear that merges into or splays out of the magnetic zone. The primary strike direction of the larger linears in the survey area is NW-SE, parallel to the Yukon. A prominent secondary strike direction is NE-SW, conjugate to the primary strike direction. The NE-SW linears often trace short Yukon drainage channels in the mountains that flank the river.

The Latte Zone has one distinct curvilinear magnetic signature on its west that curves NW and strikes into the large NE-SE striking magnetic zone traced by the grey line. This listric type signature may rather be a splay, at present it is not known what the signature is. The curvilinear is crosscut by a 2nd more

north-striking NW-SE linear. A subtle NE-SW striking magnetic linear also intersects the Zone that may be the southward magnetic signature extension of the drainage channel to the north of the E-W trending drainage divide. This Zone has a dozen boreholes. The listric (or splaying) curvilinear striking into a larger regional linear is chosen to be one of magnetic fingerprints for Kaminak.

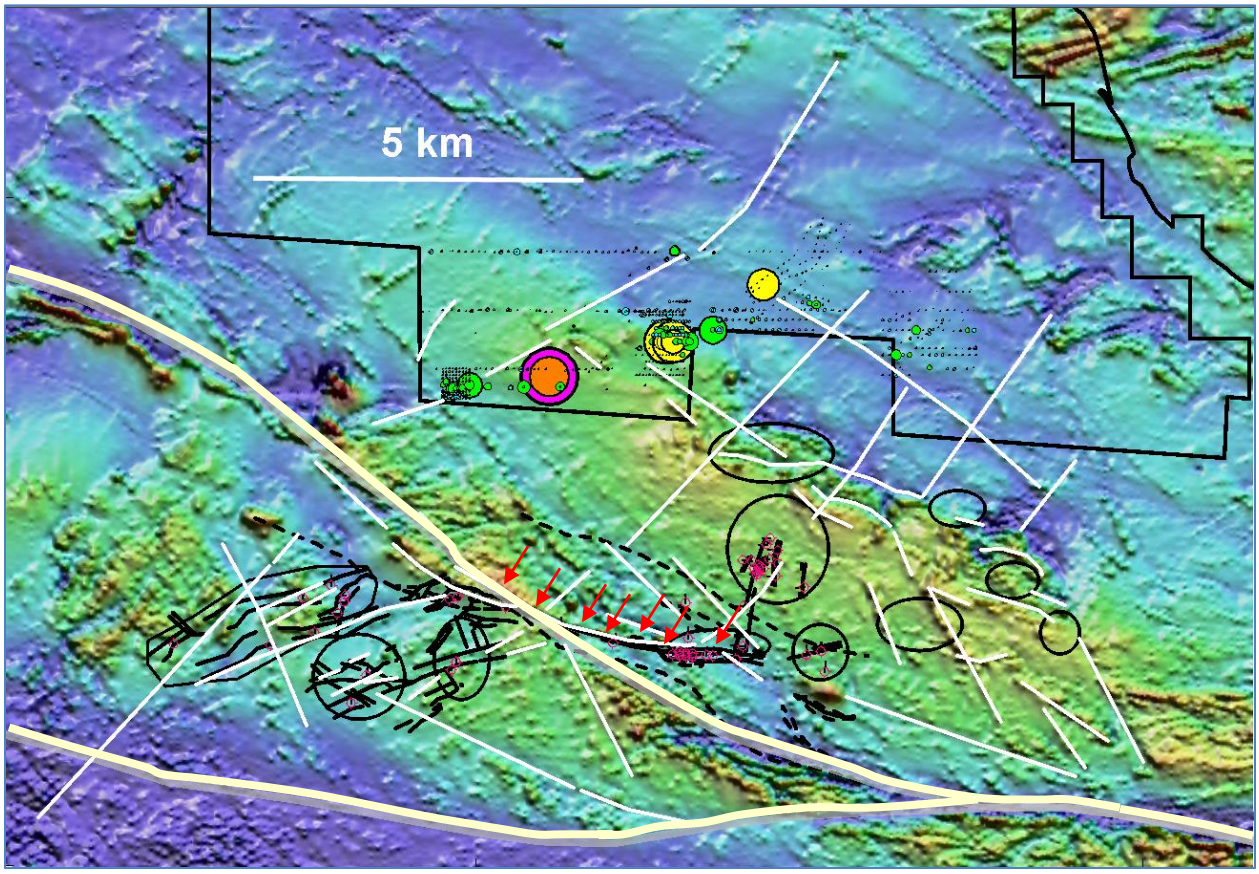


Figure 22. Main magnetic structural elements at Kaminak with the prior interpretation in black line, sample sites as colored circles with assays modulated by size and color, and the 11 Coffee Zones as open black circles or ellipses. The red arrows point out the listric (or splaying) curvilinear that was drilled in the Latte Zone.

The Supremo Zone has more than 10 drill holes and is sighted at the crest of a drainage divide. A NE-SW striking magnetic linear that tracks a NE-SW tributary drainage channel strikes into the Zone. On the south side of the E-W trending drainage divide a subtle magnetic curvilinear strikes SW out of the Zone. It's not known if this linear traces the dip of the southward extension of the northern linear that tracks the drainage. Subtle magnetic signatures that track drainage channels would be chosen to be the 2nd Kaminak magnetic fingerprint if these drainages could be sampled but apparently they cannot due to talus. In light of this ridgelines and mountain crests above the tops of these drainage channels are selected as the sample sites particularly if they are traversed by magnetic horizons or have discrete magnetic signatures.

Zones Americano, Espresso Kona and Double Double's 's boreholes are drilled amongst shorter NE-SW and NW-SE striking magnetic linears located several hundred metres distance from the larger magnetic

structures, and drilled on nebulous magnetic signatures in most cases. The only inference that can be drawn from this is that ridge lines and crests with mappable magnetic signatures that in some cases strike toward larger regional magnetic linears can be prioritized as potential borehole targets.

Sample Site selection

A detailed magnetic linear interpretation (Figure 23) was superimposed on the DTM grid and 33 sample sites on ridgelines and ridge crest were picked as potential sample sites (Figure 24). The red polygons in Figure 23 are discrete zones of higher amplitude magnetic response.

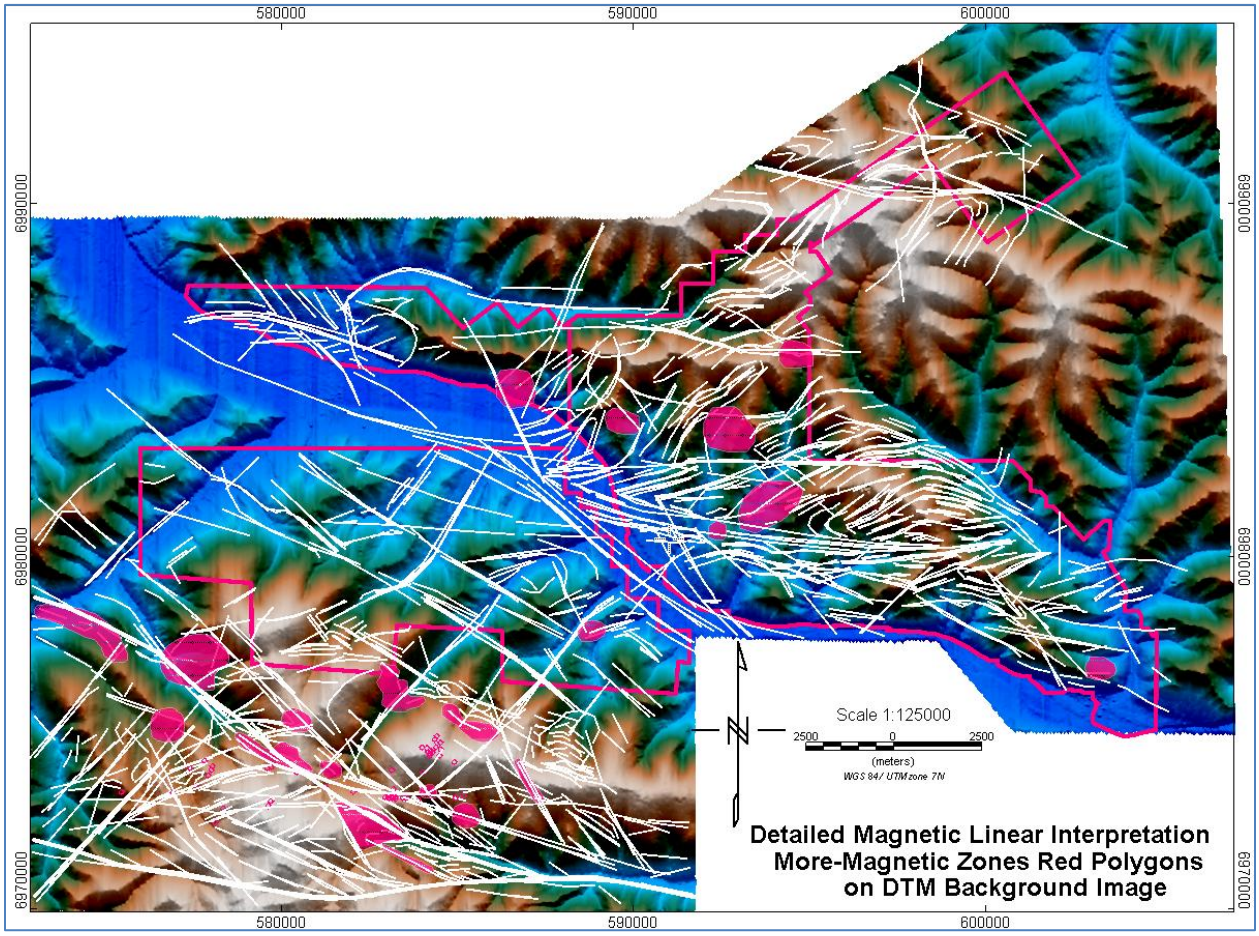


Figure 23. Detailed magnetic linear interpretation in white line with red polygons being discrete local zones of higher amplitude magnetic response.

The 33 sample sites in Figure 24 were located on top of either higher response discrete magnetic signatures or magnetic horizons, or just down-slope from these signatures. Sites were picked on top of ridgelines or ridge crests, or mountain peaks, which should facilitate access. The new sample sites were picked outside of the existing Dan Man, Dan Man 2010, and TL sample grids. The 33 sample sites are

listed in the Sample Site Table below. Geologic or site access information not available to the writer at the time of report writing could reprioritize any of the sample sites to a higher or lower status.

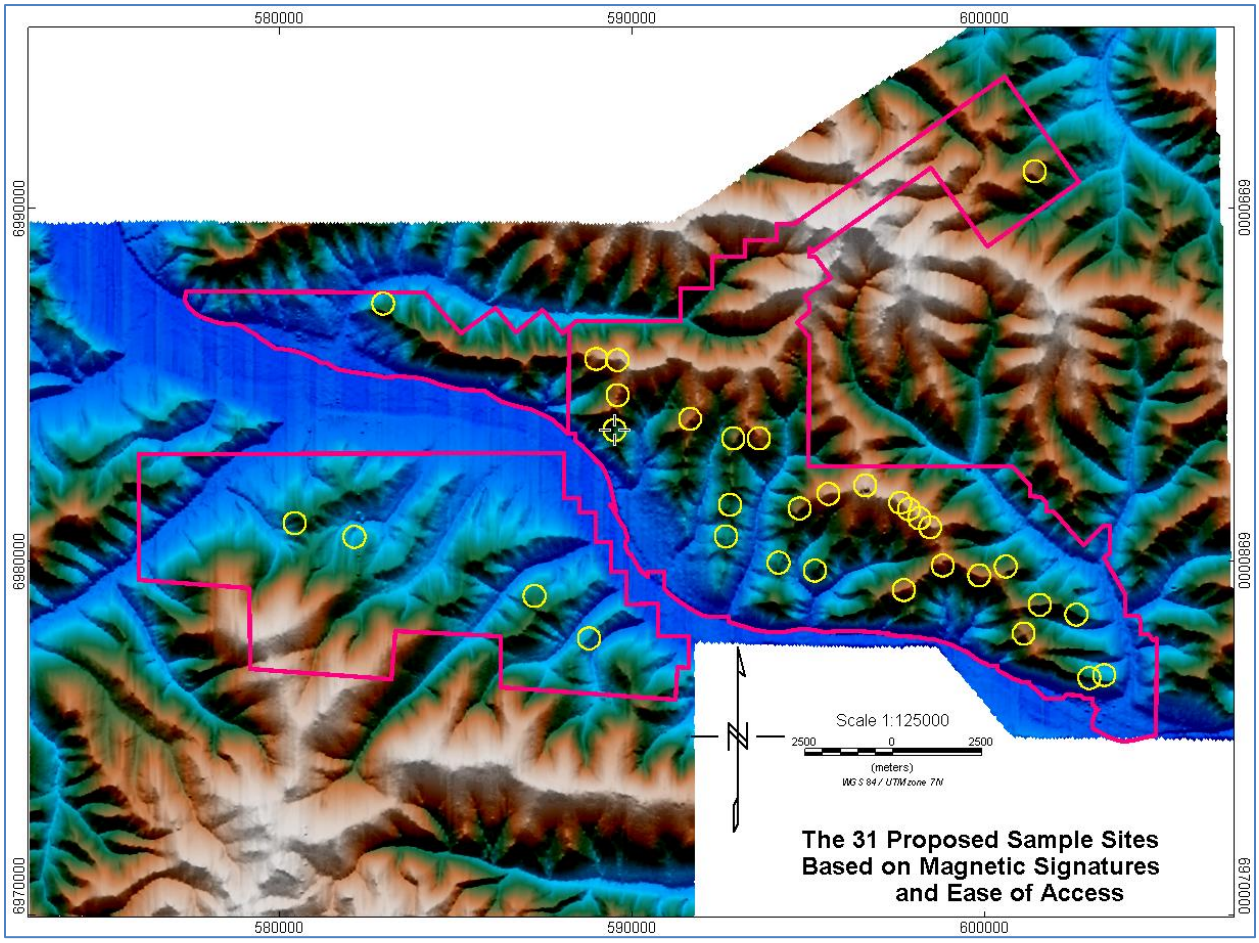


Figure 24. The 33 proposed sample sites on the DTM grid.

Table of 33 sample sites

X	Y	DTM	ID	License	Notes	Rank
599825	6979618	949	1	TL	A kms long ENE-WSW striking linear, sited in southward bend in signature	Moderate
601087	6977973	934	2	TL	NW-SE linear	Low
589573	6984725	980	3	TL	Down slope discrete higher amplitude magnetic signatures	High
580419	6981100	731	4	Dan Man	On top of a NW-SE striking subtle linear	Low
582112	6980712	623	5	Dan Man	Just down slope of a ENE-W-SW striking subtle linear	Low
587218	6979037	768	6	Dan Man	On top of the higher amplitude response in a magnetically disrupted area	Low
588763	6977835	660	7	Dan Man	On top of a discrete higher amplitude response	Moderate

603367	6976796	649	8	TL	Near the top of a ridge, on top of a discrete magnetic signature	Moderate
602948	6976714	751	9	TL	On the top of a ridge, on top of a discrete magnetic signature	Moderate
602581	6978512	779	10	TL	ESE-WNW striking magnetic linear, on a ridge	Moderate
600579	6979870	854	11	TL	On top of a NE-SW striking magnetic linear, on a NE sloping ridgeline	High
598792	6979901	989	12	TL	On top of the kink in a NE-SW striking magnetic linear, on a ridgeline	High
597688	6979206	953	13	TL	On top of a magnetic linear crossroads, main strike is ESE-WNW, on a ridgeline	Moderate
595166	6979758	779	14	TL	Just north of the peak response of an E-W linear, on a ridgeline	High
598434	6980984	1066	15	TL	On top of one magnetic linear in the E-W striking elliptical magnetic structure, on a ridgeline	High
598128	6981239	1098	16	TL	On top of one magnetic linear in the E-W striking elliptical magnetic structure, on a ridgeline	High
597831	6981494	1097	17	TL	On top of one magnetic linear in the E-W striking elliptical magnetic structure, on a ridgeline	High
597586	6981678	1094	18	TL	On top of one magnetic linear in the E-W striking elliptical magnetic structure, on a ridgeline	High
596596	6982168	1126	19	TL	On a NE-SW striking linear, on a ridgeline	Moderate
592645	6980727	735	20	TL	On a ridgeline the east side of a discrete magnetic signature, might be necessary to traverse west down slope a few tens of metres to get on top of the signature	Moderate
588969	6985749	1062	21	TL	Subtly elevated magnetization in a NNE-SSW striking magnetic linear, on a ridgeline	Low
589571	6985716	1117	22	TL	Subtly elevated magnetization in a N-S striking magnetic linear, on a ridge crest	Low
591629	6984054	962	23	TL	On a NNE-SSW striking magnetic linear, on a ridgeline	Low
593581	6983502	958	24	TL	ME-SW striking magnetic linear, on a ridge crest above a highly magnetic rock down slope to the west	Moderate
601398	6991067	939	25	TL	Subtle NE-SW striking linear on a ridge crest	Low
582927	6987321	731	26	Dan Man 2010	On top of an E-W striking magnetic linear, a few tens of metres down slope of a ridgeline	Low
594138	6979978	748	27	TL	On a ridgeline just down-slope to the north of a ESE-WNW striking magnetic linear	High
589486	6983737	805	28	TL	On top of discrete higher amplitude magnetic signature	High

601542	6978787	877	29	TL	On a plateau down slope of an E-W striking magnetic linear	High
592761	6981620	773	30	TL	On a ridgeline just south of a peak magnetic signature, To the west up-slope is a much higher magnetization lithology	High
592854	6983500	892	31	TL	On a ridgeline on top of the highest magnetic response rocks in the TL zone	Highest
595552	6981932	1052	32	TL	On a magnetic linear on a ridge crest	High
594735	6981516	915	33	TL	On a ridge with a magnetic signature, may be difficult access	Highest

Conclusions

The Kirkman dataset was microleveled and filtered to provide higher-resolution magnetic grids with less line level corrugation. The analytic signal amplitudes were used to as a first pass to prioritize 12 higher amplitude AS signatures for possible field investigation. When the AS signatures are superimposed on topography, they identify local drainages and topographic ridges as potential stream or soil sampling sites. The available geochemistry data when plotted on magnetic imagery draped on topography provides information on discrete magnetic horizons locations relative to elevated assays and locates the drainage catchments that include the assay sample sites.

A basic magnetic linear interpretation was undertaken over the survey grid with no prior geologic knowledge of the survey area to locate the major structural elements on the grid. The more-obvious magnetic linears identifiable in the dZ grid were traced out, and 11 magnetic domains were identified, based on local magnetic gradient textures and background TMI amplitudes. Some Domain magnetic textures may be influenced by topography. The extreme topography in the Kirkman survey grid complicates the interpretation of magnetic horizon geometry. Erosion effects on magnetic units in extreme topography can mimic both faulting and folding and cause misinterpretation of the magnetic data. Draping the magnetic images on the DTM grid aids the interpretation. The “Z” folds near high gradient AS signature #12 on Figure 15 may not be folds, but flatiron type signatures that result from a continuous N-S striking magnetic horizon traversing across an incised V-shaped drainage. Also, what may be interpreted as broad open folding in the mountains of the grid east near high gradient AS signature #10 may rather be N-NE to S-SW striking linear magnetic signatures that dip to the E-SE, with the “folds” being the 3D topographic representation of eroded linear magnetic horizons.

That topography may shape some of the magnetic signatures on the Kirkman grid doesn’t preclude there being evidence of significant geologic structures like folds and faults including normal, reverse, or thrust faults in the magnetic data. The significant changes in TMI character between Domain 4 and adjacent Domains 3 and 7 indicate there may be either vertical or lateral offsets between these zones. The complexity of the magnetic horizon geometry in Domain 4 may indicate that magnetic horizon folding and not just topography may contribute to this Domain’s complex geometry. In some locations

magnetic horizons and textural domains appear horizontally disrupted across regional magnetic linears that may be lateral movement faults. The southward kink in the Yukon River channel in the center of the survey grid may be one site to check for a significant lateral offset. En-Echelon magnetic horizons and magnetic linears that asymptote up against or splay away from other magnetic linears are also noted in the Kaminak and Yukon River channel areas. It is not known if these magnetic signatures are sites of listric faulting or splays, but the signatures are spoon-shaped. The change in magnetic texture from north to south in Domain 10 across a 20 km long NW-SE striking linear zone of magnetic signature complexity that asymptotes into a 2nd longer E-W striking magnetic linear 2nd may indicate lateral movement of the "wedge" bounded on the north and south by the two regional linears. Any geologic mapping of the survey area would aid the geophysical interpretation of the data. Inversion plate modeling and profile analysis of the magnetic horizons in specific areas would help further a more detailed geophysical interpretation for these areas.

A more detailed magnetic signature analysis was completed for the Kaminak area and the license blocks north of Kaminak. This was undertaken to "fingerprint" the magnetic signatures in the Kaminak area, including the 11 Coffee Zones, that is an area of known mineralization. The more detailed magnetic signature vectors were then overlain on the DTM for the subsequent location of potential sample sites. The most diagnostic Kaminak magnetic signature fingerprint was the curvilinear obtained from the well-drilled Latte Zone. The subsequent Magnetic signature search in the Dan Man and TL licenses to the north wasn't just limited to curvilinear signatures though; all identifiable magnetic signatures near ridge crests or mountain tops were considered. Magnetic signatures in drainages, including those that may indicate highly magnetic rocks or fold structures such as verging or hinges were ignored due to reported field access difficulties such as talus slopes.

Respectfully Submitted,

Ed Cunion
May 13 2011
Cell 001-207-513-6418
Email: ed@condorconsult.com

Review of Precision Geosurveys Final Kirkman Delivery (5) Magnetic Data from the Yukon

Condor Consulting
Lakewood, CO USA

Delivery 5

Height deviation- Topography

The final delivery 5 adds 603 km for a total of 6931 Kirkman line km, the complete flight and tie line data set is seen in Figure 1 covering the DTM image. The red-colored altitude deviation line segments show there are no new line segments flown higher than the tolerance of 10 metres above the 35 meter nominal height, over distances longer than 1000 m. The red line segments flagged on the older lines L260, L1150, L1170, and L1180 as pointed out in prior reviews are located in severe terrain and were flown higher for safety reasons. The cross-line DTM striping seen on the image, that is offsets of a few meters, is expected particularly in severe terrain like this. There is 1353 m of relief on the grid.

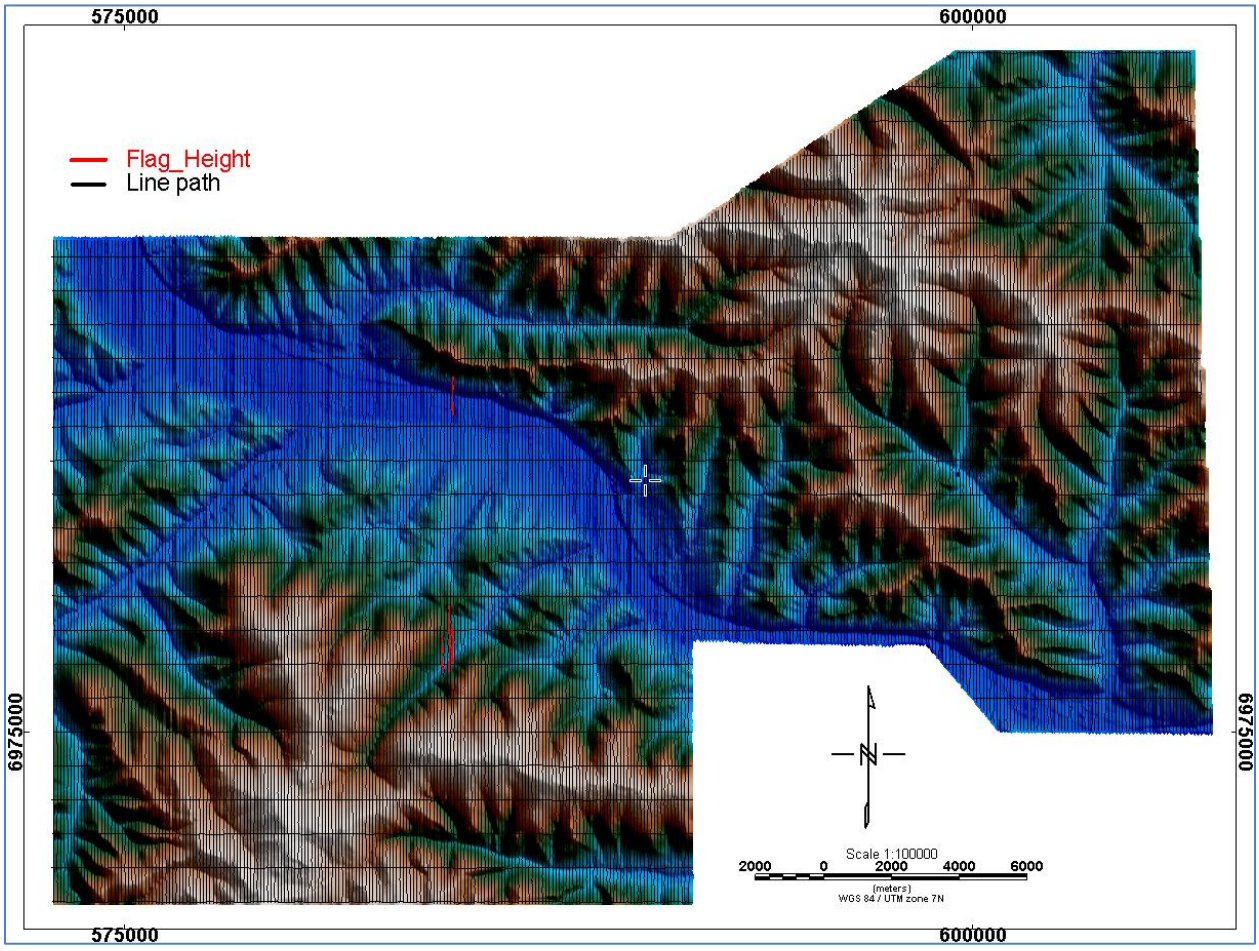


Figure 1. Final Kirkman lines in black, No new line segments exceed the height tolerance of > 10 m above 35 metres.

Line Separation & Deviation

Figure 2 below is a plot of the line separation. No new lines deviate past the tolerance of greater than 20 meters deviation over 1000 m line segments. The one red line on the south reflects the several km wide gap to the flight lines to the east of the north arrow.

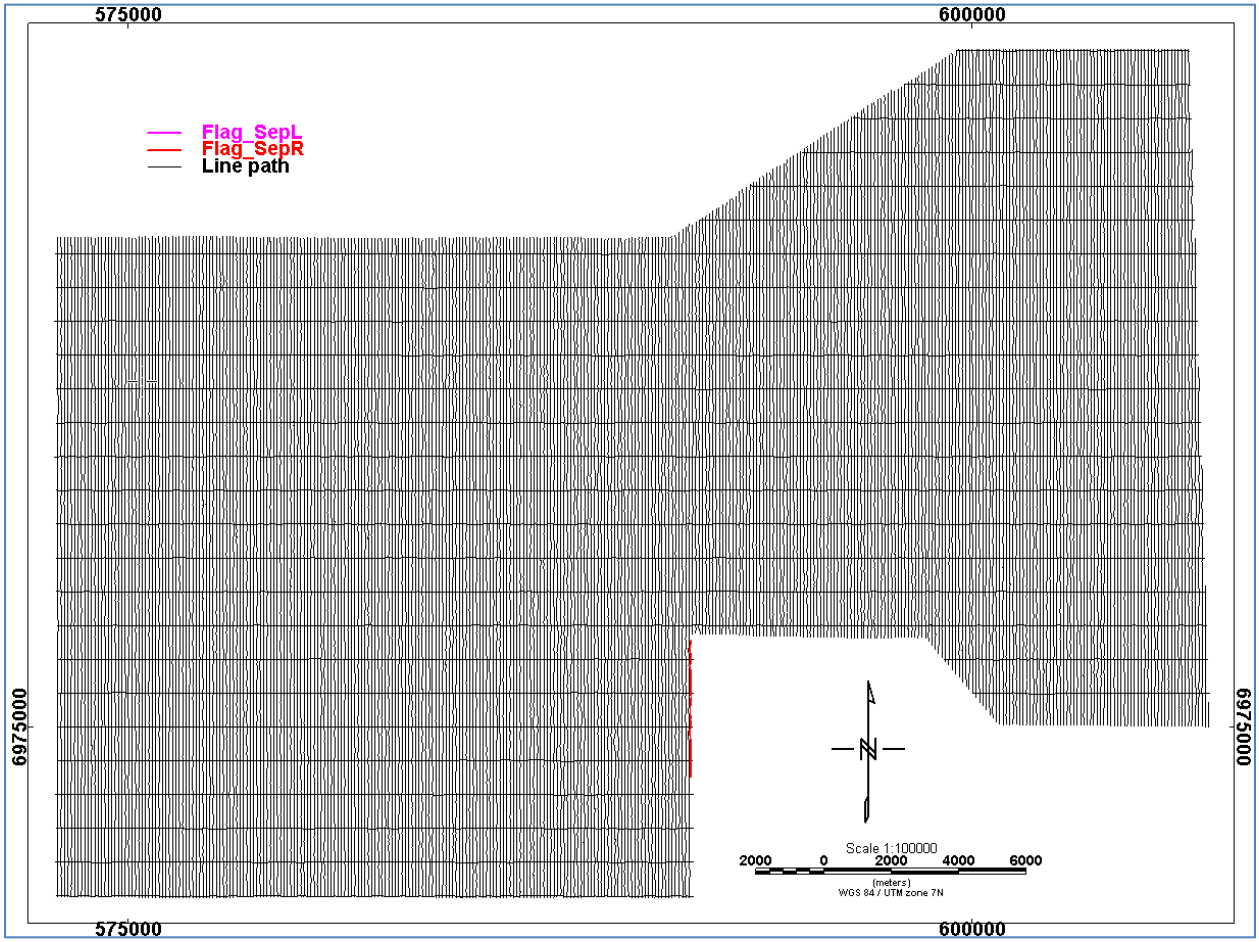


Figure 2. Flight line separation and deviation are within tolerance, no line segments are flagged as excessive anywhere on the grid. The one red line flags the line gap containing the north arrow.

TMI and noise spikes

Figure 3 is a plot of the 4th difference noise response. Some fourth difference spikes appear to arise from higher magnetic gradients associated with geology, i.e. are real geologic responses. One of these areas is enclosed by the box in Figure 3 on lines L1970-L2020.

There are a few hundred randomly scattered fourth difference noise spikes in the Kirkman dataset that are generally a few tens of metres long and a few tens to a few hundred nT in amplitude, the yellow line links the plan location of a 4th difference flag with one of the spikes on line L1880. Most of these are near topographic breaks, either near the top of ridges or near valley bottoms. Most of these don't have an associated basemag spike or step. It's assumed these are due to the changing magnetic sensor orientation/position with respect to surrounding magnetic topography, that it is a consequence of magnetic surveying in severe terrain with a rapidly moving helicopter-borne magnetic sensor. These spikes do not exceed the diurnal tolerance specification.

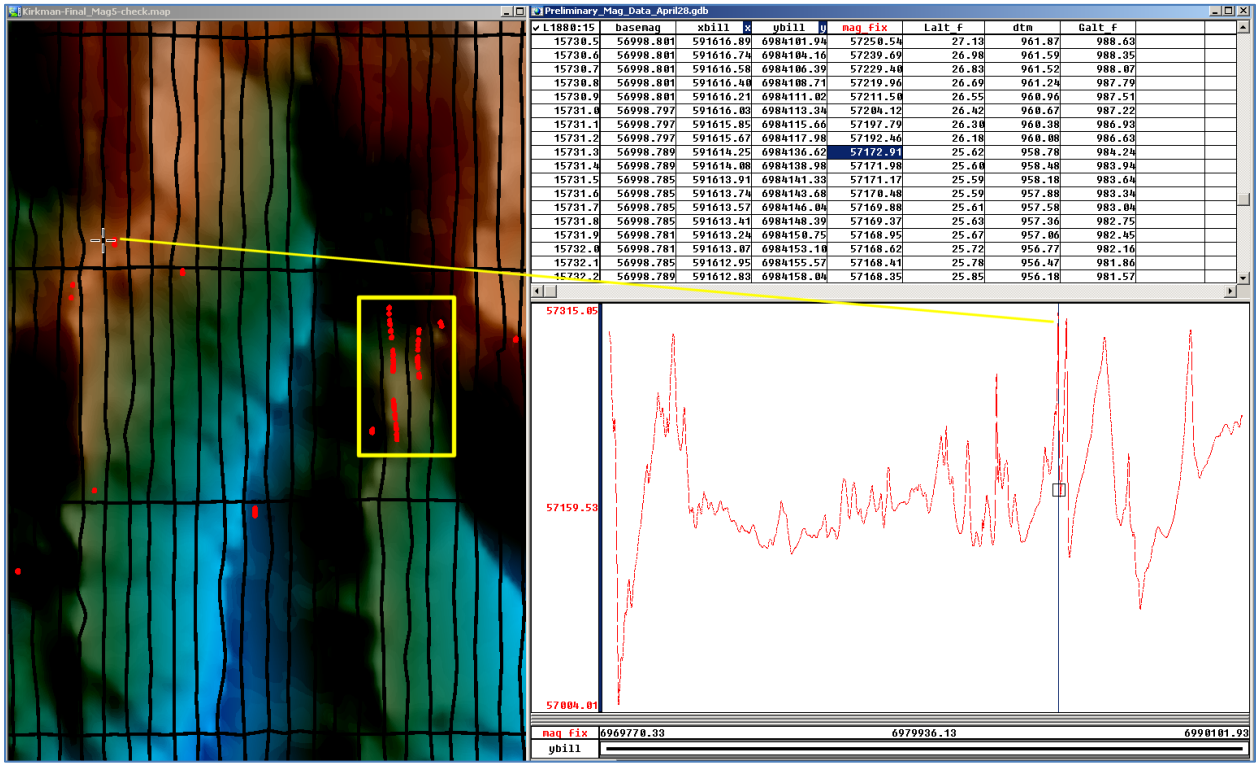


Figure 3. Lines L1970-L2020 appear to have a high natural magnetic gradient. The yellow line links one random ~100 nT spike over ~ 40 metres on the top of a ridge.

dX and line leveling

Figure 4 below shows the residual line level effects in the TMI data. The most noticeable line effect is on L250. Figure 5 illustrates the enhancement of TMI line level noise by the x-derivative filter. Subtle TMI line leveling effects become more noticeable when the dX filter is run through the data, returning the north-south striping seen in Figure 5. Precision Geosurveys have advised that final leveling of this field dataset should reduce much of the preliminary data level effects seen below.

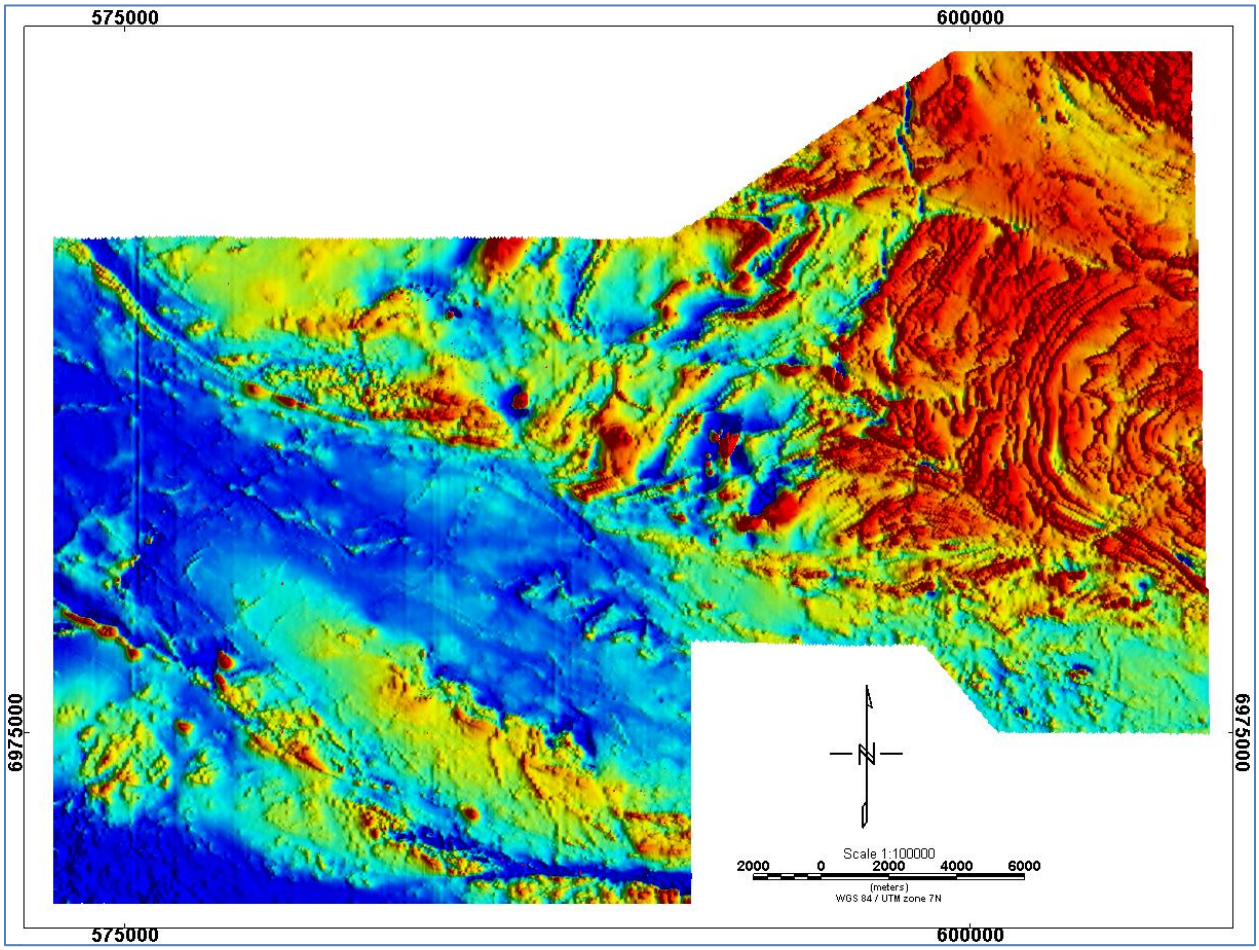


Figure 4. Final Kirkman field TMI grid, L250 on the grid west is the most noticeable line level effect.

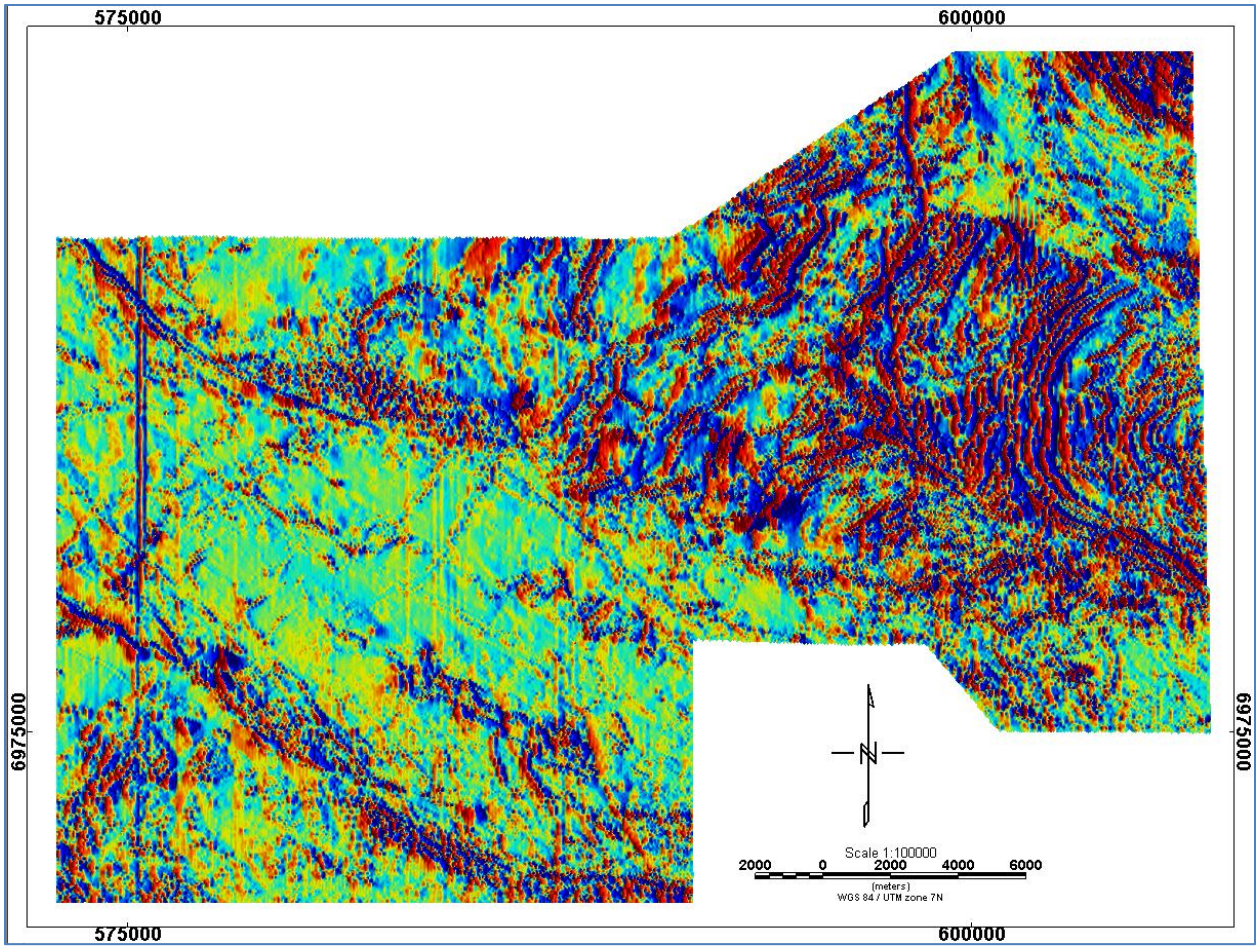


Figure 5. Final Kirkman field dX grid. Residual line level effects are noted particularly on L240-L250-L260.

Diurnal Activity

The diurnal range for the dataset has remains 235 nT. No lines exceed the 10 nT over 1 minute chord length. Diurnal activity has been within specifications during the survey. The few diurnal steps (not spikes) seen in the data, that are generally less than 10 nT, occur at merged flight-line junctions, where different flights are merged together. Some of the flight line junctions are enclosed by boxes in Figure 6. In some cases the adjacent flight line segments were flown on different days.

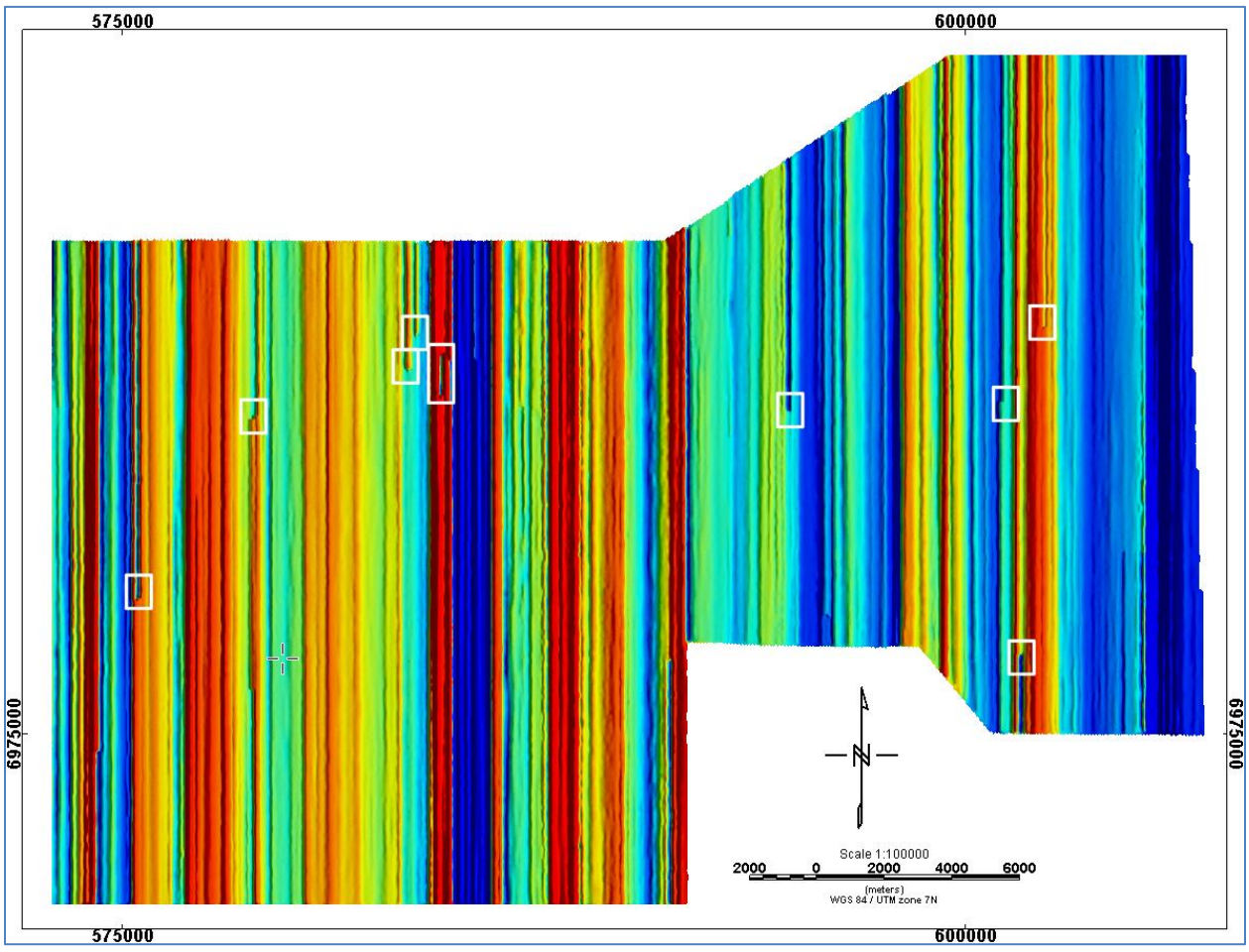


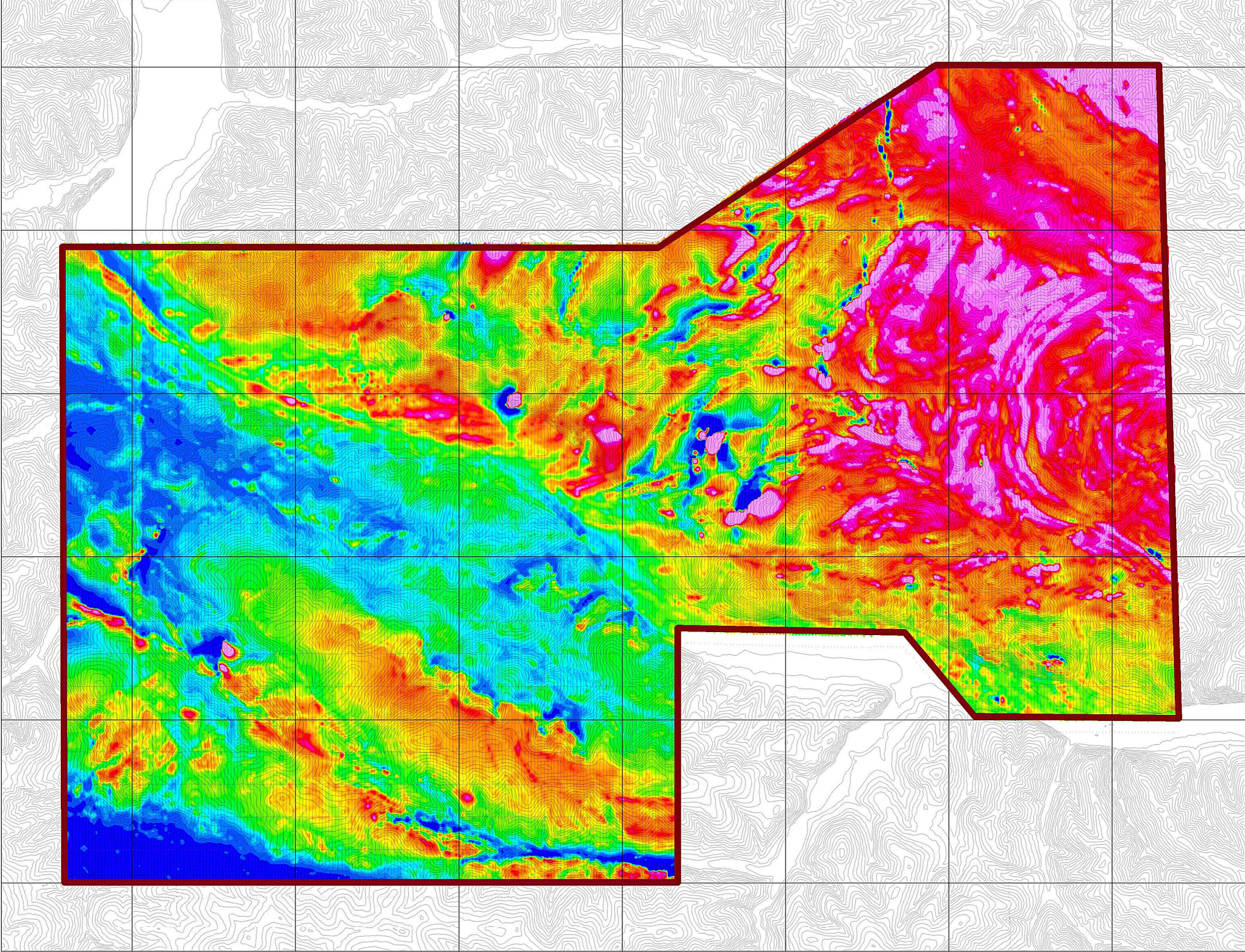
Figure 6. No diurnals exceed the prescribed tolerance. A few base magnetometer data steps up to a few tens of nT are noted on selected lines, usually where two flights merge. The diurnal corrections and leveling remove these effects from the final TMI dataset.

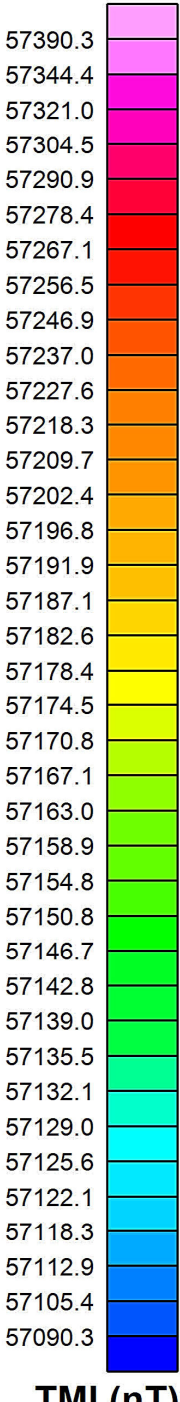
Conclusions

The final Kirkman data delivery is within the prescribed survey tolerances. Precision Geosurveys advises that the residual line level noise in the data should be removed by further leveling for the final data delivery.

Respectfully Submitted,

Ed Cunion
April 30 2011
Cell 001-207-513-6418
Email: ed@condorconsult.com




57390.3
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57321.0
57304.5
57290.9
57278.4
57267.1
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57246.9
57237.0
57227.6
57218.3
57209.7
57202.4
57196.8
57191.9
57187.1
57182.6
57178.4
57174.5
57170.8
57167.1
57163.0
57158.9
57154.8
57150.8
57146.7
57142.8
57139.0
57135.5
57132.1
57129.0
57125.6
57122.1
57118.3
57112.9
57105.4
57090.3
TMI (nT)

QW28944

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 DM 1-427mineral claims on claim sheets 115J/13 and 14 is accurate.

Joan Mariacher

Sworn before me at Vancouver, B.C.

this 14th day of December 2011.

Barrister & Solicitor

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

Statement of Expenditures
Dan Man 1-427 Mineral Claims
December 13, 2011

Contract Diamond Drilling

Elite Diamond Drilling	$204,496.12